

À
PROCURADORIA-GERAL DE JUSTIÇA
Pregão Eletrônico Nº 313/2021
Processo nº 19.16.2147.0064926/2021-69
Abertura da sessão de lances: 10h00min.

ANEXO III – PROPOSTA (PLANILHA DE PREÇOS)
(Anexo I do Contrato nº...../2021
CT SIAD 313/2021)

Objeto: Aquisição de peças, materiais, dispositivos, periféricos de informática e softwares de perícia digital.

1) IDENTIFICAÇÃO DO LICITANTE:

Razão Social: PRIMETECH INFORMÁTICA EIRELI				CNPJ: 03.812.745/0002-24	
Endereço: RUA RAULINO GONÇALVES			Nº: 169	Sala: 03	
Bairro: ENSEADA DO SUA			Cidade: Vitória		CEP: 29.050-405
Telefone: (21) 3872-2414			E-mail: licitacao01@primetech.emp.br		UF: RJ
Banco: (001) Banco do Brasil			Agência: 3010-4		Conta: 4133-5

2) PRAZO DE VALIDADE DA PROPOSTA: 60 (sessenta) DIAS, contados da data de sua apresentação;

3) O PREÇO E AS ESPECIFICAÇÕES MÍNIMAS:

LOTE 4 – SERVIDOR STORAGE – 432TB									
ABERTO A TODOS OS LICITANTES (ampla competição)									
Tipo de contratação: TERMO DE CONTRATO									
Item	QTD	UND	Especificações do Item	COD. SIAD	Preço		Preço deduzido ICMS(*)		Marca/modelo
					Unitário/Mensual	Total/ Anual	Unitário/Mensual	Total/ Anual	
1	01	Unidade	SERVIDOR STORAGE, CAPACIDADE DE 432 TB DE ARMAZENAMENTO. / INFORMAÇÕES COMPLEMENTARES ITEM	001832387	R\$ 320.000,00	R\$ 320.000,00			IBM – 5035 LFF

03.812.745/0002-24

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Vitória -ES

		22 - 1) Deve possuir CPU com no mínimo seis núcleos de processamento a 3,0 GHz e arquitetura x86 de 64 bits; 2) Deve possuir 24 baias para discos rígidos de 3.5 polegadas, hot swap; 3) Deve possuir 4 portas Gigabit Ethernet RJ45; 4) Deve possuir 2 portas 10 Gigabit Ethernet SFP+; 5) Deve possuir 24 discos SATA3 – 18 TB – uso intensivo 24x7; 6) Deve possuir Implementação e configuração inicial do produto; 7) Deve possuir Instalação física dos discos; 8) Deve possuir capacidade para criação, configuração e montagem dos Volumes; 9) Deve possuir capacidade para configuração do nível de RAID a ser utilizado em cada volume; 10) Deve possuir endereçamento IP, DNS, Alarmes e e-mails; 11) Deve possuir escalabilidade para até 152 discos através de unidade de expansão; 12) Fonte de energia redundante na tensão 127V-220V; 13) Deve possuir 3 anos de garantia de reparo em Hardware e Suporte técnico.					
PREÇO TOTAL DO LOTE			PREÇO TOTAL DO LOTE COM DEDUÇÃO DO ICMS (*)				
R\$ 320.000,00 (trezentos e vinte mil reais)							

EMPRESA REGISTRADA NO SIMPLES

03.812.745/0002-24

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(*) Caso aplicável, informar valor com e sem ICMS. É de responsabilidade do licitante o conhecimento da carga tributária aplicável à presente contratação.

PARA TODOS OS LOTES (1 A 9):

4) DAS EXIGÊNCIAS DA PROPOSTA:

4.1) PRAZO DE ENTREGA: 30 (trinta) DIAS, contados do recebimento, pela **Contratada**, da Autorização de Fornecimento (MÁXIMO 30 dias);

4.2) PRAZO DE SUBSTITUIÇÃO DO OBJETO COM DEFEITO: 07 (sete) DIAS ÚTEIS, contados da solicitação (MÁXIMO 7 dias úteis);

LOTE 4: 4.3.1) PRAZO DE GARANTIA (ESTENDIDA): 36 (TRINTA E SEIS) MESES, contados da data da emissão da respectiva nota fiscal, ou documento equivalente (MÍNIMO 36 MESES);

4.4) PRESTAÇÃO DA GARANTIA: Se o prazo de garantia for superior ao legal, o licitante deverá, no ato da entrega da nota fiscal (ou documento equivalente), repassar à contratante **termo ou certificado de garantia**, constando a cobertura de todo o objeto, pelo período definido no item 4.3 desta proposta;

4.4.1) A garantia inclui todos os seus acessórios e será oferecida pelo FABRICANTE para o lote 4 ;

4.4.2) Os custos com transporte para fins de execução de serviços relativos à garantia, inclusive quando realizados fora da RMBH, serão arcados exclusivamente pela contratada;

4.4.3) A garantia será prestada por empresa credenciada pelo fabricante, na Região Metropolitana de Belo Horizonte (RMBH – LC Nº 63/02), a ser consultado através do DDG de suporte do fabricante IBM , que são responsáveis pelos atendimentos em garantia, durante o prazo de sua vigência, tendo em vista que os fabricantes não informam os dados das suas assistências técnicas no site .

DDG: IBM 0800 7287378

5) DECLARAÇÃO DE REGULARIDADE: deverá ser apresentada, juntamente com esta Proposta, a Declaração de Regularidade, conforme modelo constante do Anexo V do Edital;

Vitoria/ES – 16/12/2021



Cesar Luciano Cardoso Silva

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COMPROVAÇÕES TÉCNICAS

Lote 4		
Item 1 - SERVIDOR STORAGE, CAPACIDADE DE 432 TB DE ARMAZENAMENTO		
Part No.	Descrição	Qtd
2072-3N2	FlashSystem 5035 LFF Control Enclosure	1
9730	Power Cord - PDU Connection	1
ADN1	Order Type 1 - CTO	1
AG00	Shipping and Handling NC	1
AHPA	AC Power Supply HE	1
AHZE	Hybrid Flash Indicator	1
AL3G	18TB 7.2K 3.5 Inch NL HDD	12
ALBD	10 Gb Ethernet Adapter Pair	1
2072-12G	FlashSystem 5000 LFF Expansion Enclosure	1
9730	Power Cord - PDU Connection	1
ACUA	0.6m 12Gb SAS Cable(mSAS HD)	2
ADN1	Order Type 1 - CTO	1
AG00	Shipping and Handling NC	1
AHPA	AC Power Supply HE	1
AHZE	Hybrid Flash Indicator	1
AL3G	18TB 7.2K 3.5 Inch NL HDD	12

CATÁLOGO:

https://www.ibm.com/common/ssi/ShowDoc.wss?docURL=/common/ssi/rep_sm/6/877/ENUS2072-h06/index.html&lang=en&request_locale=en
<https://www.ibm.com/downloads/cas/ZDOYP6LX>
<https://www.ibm.com/support/pages/node/6362339>
<https://www.redbooks.ibm.com/redbooks/pdfs/sg248492.pdf>

Possuirá Implementação e configuração inicial do produto;

- Possuirá Instalação física dos discos;
- Possuirá 3 anos de garantia de reparo em Hardware e Suporte técnico.
- Prazo em meses: 36 meses para os lotes 1 e 4.
- Justificativa: Além de serem dispositivos físicos, estes também possuem embutidos em suas características funções nativas de Software para gerência do equipamento, o que torna necessária a aquisição de Assistência Técnica (incluindo suporte e atualização de versões) e garantia estendida, pelo período de 36 meses. Este período maior justifica-se pelo elevado impacto que é causado ao funcionamento do setor por unidades de dados compartilhados por diversos equipamentos e diversos funcionários, os quais o acessam simultaneamente, incluindo em horários fora do expediente para processamentos agendados.
- Objetiva-se a garantir o pleno funcionamento dos dispositivos em eventuais erros e/ou defeitos que ocorram, provendo assim, garantia da não interrupção das atividades relacionadas às perícias.

Assistência Técnica:

- Sim.
- A assistência técnica será prestada de maneira remota por telefone e/ou correio eletrônico através de números e endereços disponibilizados pela contratada e, quando necessário, de maneira presencial respeitando o prazo para atendimento de até 10 dias úteis, podendo ser realizados de Segunda às Sextas-feiras de 07:30 até as 16h. A assistência técnica deve atender aos seguintes itens deste termo de referência:
 - ITEM 01(Um) DO LOTE 01(Um)
 - ITEM 01(Um) DO LOTE 04(Quatro)
- A Assistência Técnica para os lotes 1 e 4 faz-se necessária, uma vez que, os equipamentos de informática sem suporte e/ou atualizações ao longo do seu tempo de vida útil podem sofrer paradas inesperadas e/ou não conformidades de atualizações de segurança, levando a paralisações na atividade laboral daqueles que utilizam os dispositivos, não obstante, a possibilidade de prorrogação da Assistência Técnica garante a maior celeridade no processo de extensão da vida útil do dispositivo.

CONDIÇÕES DE FORNECIMENTO

- **Prazo de validade da proposta:** 60 (sessenta) DIAS, contados da data de sua apresentação.
- **Prazo de Entrega:** 30 (trinta) dias, contados do recebimento, pela Contratada, da Autorização de Fornecimento.
 - a. **Local de entrega:** na CEAT Informática, situada à Rua Dias Adorno, 367, Santo Agostinho, 4º Andar, Belo Horizonte, MG - CEP 30190 100.
- **Prazo de Garantia:**
Lote 4 – Item 1: **36 (trinta e seis) meses, contados da data da emissão da respectiva nota fiscal, ou documento equivalente.**
- **DDG:** IBM 0800 7287378
- **Prazo de pagamento:** 30 (trinta) dias, mediante a apresentação da respectiva nota fiscal (ou documento equivalente), conforme CLÁUSULA OITAVA do TR.
 - a. **Dados Bancários:** Banco do Brasil nº. 001 / Agência: 3010-4 /Conta corrente: 4133-5
- Declaramos que os bens ofertados **atendem aos requisitos técnicos especificados no TR;**
- Declaramos que os **produtos ofertados são novos** e sem uso e se encontram em linha de produção, e que os preços oferecidos serão fixos e irreajustáveis.
- Declaramos que **estamos de pleno acordo com todas as condições estabelecidas no Edital e seus Anexos**, bem como aceitamos todas as obrigações e responsabilidades especificadas no Termo de Referência.
- Declaramos que nos preços cotados **estão incluídas todas as despesas que, direta ou indiretamente**, fazem parte do presente objeto, tais como gastos da empresa com suporte técnico e administrativo, impostos, seguros, taxas, ou quaisquer outros que possam incidir sobre gastos da empresa, sem quaisquer acréscimos em virtude de expectativa inflacionária e deduzidos os descontos eventualmente concedidos.
- Declaramos a não ocorrência do registro de oportunidade, de modo a garantir o princípio constitucional da isonomia e a seleção da proposta mais vantajosa para a Administração Pública, conforme disposto na Lei nº 8.666, de 1993 e no item 1.7 do Anexo da IN SGD/ME 01/2019
- Caso nos seja homologado o objeto da licitação, comprometemos a entregar o mesmo no prazo determinado e para esse fim fornecemos os seguintes dados:

DADOS DA EMPRESA	
Razão social: PRIMETECH INFORMÁTICA EIRELI	
CNPJ: 03.812.745/0002-24	
Inscrição Estadual: 083.583.72-6	
Inscrição Municipal: 1264291	
Endereço: RUA RAULINO GONÇALVES 169 SALA 03 ENSEADA DO SUA	CEP: 29.050-405

03.812.745/0002-24

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Rua Raulino Gonçalves 169 sala 03
Enseada de SUA – CEP 29.050-405
Vitória -ES

Telefone: (21) 3872-2414		E-mail: licitacao01@primetech.emp.br
Cidade: VITÓRIA		UF: ES
Banco: Banco do Brasil	Agência: 3010-4	Conta Corrente: 4133-5
DADOS DO REPRESENTANTE LEGAL PARA FIM DE APRESENTAÇÃO DA PROPOSTA E ASSINATURA DA ATA E OU CONTRATO		
Nome: CESAR LUCIANO CARDOSO SILVA		
CPF: 878.841.275-04		Cargo ou Função: SÓCIO
Carteira de Identidade: 0512530386		Expedido por: SSP/BA
Nacionalidade: BRASILEIRO		Estado Civil: SOLTEIRO
Endereço: TRAVESSA CUNHA GALVÃO ,205 BL 01/109 – FREGUESIA – JACAREPAGUÁ, RIO DE JANEIRO /RJ		
Telefone: (21) 3872-2414 / 98269-0205		E-mail para contato e envio documentação: licitacao01@primetech.emp.br

Vitoria/ES – 16/12/2021



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IBM FlashSystem 5000 | Data sheet

Highlights

- Offers easy-to-own, easy-to-use, easy-to-grow flexibility
 - Provides affordable, enterprise-grade functionality and performance
 - Enables data mobility to support hybrid cloud deployments
 - Built with the rich enterprise data services of IBM Spectrum Virtualize
 - Leverages AI to optimize data placement and streamline management
 - Ensures business continuity with multi-layered data resilience features
-

IBM FlashSystem 5015 and 5035 offer the performance, functionality and affordability demanded by entry enterprise workloads.

Leading-edge technologies such as artificial intelligence (AI), real-time analytics, and blockchain demand new levels of IT infrastructure performance and functionality for many reasons, but top of the list is because by their very nature they produce and consume enormous amounts of data.¹

Businesses of all sizes, including small businesses, remote and branch offices require a modern IT infrastructure with wide-ranging capabilities, from intelligent system optimization and powerful data reduction, through comprehensive security and encryption features, to cloud architectures and ultra-low latency flash storage. These demands can be especially challenging in environments with smaller and mid-sized application workloads, because organizations with smaller workloads quite often operate with smaller IT budgets.

Because capital funds are at a premium, businesses need to preserve and extend their current investments in IT infrastructure, while upgrading outdated features. So, pay-as-you-go strategies become especially attractive. Data security can't be compromised. Agility may be even more important than ever before, so infrastructure flexibility and scalability are crucial.

IBM FlashSystem 5000 storage systems are designed specifically to address entry enterprise workloads. These storage solutions are focused on affordability with a wide range of enterprise-grade features that can easily evolve as

your business grows. And you can even choose to extend award-winning software-defined storage functionality across all your existing systems to optimize current IT investments while building a leading-edge, cloud-capable business platform.



IBM FlashSystem 5000

IBM FlashSystem 5000

IBM FlashSystem 5000 storage systems are designed to provide market leader entry level enterprise solutions within the overall FlashSystem family. IBM FlashSystem 5000 technology has recently been refreshed, with a focus on significant innovation. FlashSystem 5000 offerings include IBM FlashSystem 5015, designed for entry-level storage requirements, IBM FlashSystem 5035 with increased functionality and performance for entry workloads.

The new IBM FlashSystem 5000 models offer even greater affordability than before, with a wide range of performance and feature options:

- **IBM FlashSystem 5015** is an entry-level solution focused on affordability and ease of deployment and operation, with powerful scale-up features. It includes many IBM Spectrum Virtualize features and offers multiple flash and disk drive storage media and expansion options.
- **IBM FlashSystem 5035** provides greater functionality, including powerful encryption capabilities and data reduction pools with compression, deduplication, thin provisioning, and the ability to cluster for scale-up and scale-out.

More than ever before, FlashSystem 5000 models are easy to buy, easy to use and easy to grow:

- IBM FlashSystem 5015 and FlashSystem 5035 are **easy to buy** because they are simple. Just one thing to order and you get a storage solution ready to install and run. Additionally, [IBM](#)

[Global Financing](#) provides numerous payment options to help with system acquisition plus full lifecycle management through to disposition.

- They're **easy to deploy**, with enterprise-grade capabilities such as AI-powered IBM Easy Tier functionality that ensures your data is on the right type of storage—automatically. All IBM storage solutions are supported by AI-enhanced [IBM Storage Insights](#) that monitors your storage environment, so you don't have to. It lets you know when something needs your attention and can even recommend what to do. And when support from IBM is needed, Storage Insights helps streamline your experience.
- They're **easy to grow** because you can quickly and easily add capacity without disruption. A single FlashSystem 5015 array can scale up to the size of a FlashSystem 5035 array with 504 drives per system, and up to 1,008 drives in two-way clustered systems. They work with your applications today, and the ones you will develop tomorrow, to address workloads using new technologies such as containers and cloud architectures.

Enhanced storage capabilities

All FlashSystem solutions leverage the proven capabilities of IBM Spectrum Virtualize software-defined storage (SDS) for storage management. IBM is the number-one SDS vendor in the industry.² IBM Spectrum Virtualize enables applications to run without disruption, even when changes are made to the storage infrastructure.

IBM Spectrum Virtualize has been helping enterprises improve infrastructure flexibility and data economics for more than 15 years. When virtualized, data in a storage system becomes part of the FlashSystem solution, and it can be managed in the same way as internal drives. Data in external systems inherit all the FlashSystem functional richness and ease-of-use features, including advanced replication, high-performance thin provisioning, encryption, compression, deduplication, and Easy Tier functionality. Depending on the FlashSystem model and the options you choose, IBM Spectrum Virtualize can deliver a wide spectrum of sophisticated storage functionality, including:

- IBM HyperSwap for nondisruptive application and data mobility between data centers
- Support for host-side virtualization solutions, including VMware virtual machines, Microsoft Hyper-V and IBM PowerVM, among others
- Support for more than 500 external storage systems from a wide variety of vendors
- Powerful data reduction pool technology that includes deduplication, compression, and automated thin provisioning
- Easy Tier automated tiering functionality

- IBM FlashCopy and IBM Remote Mirror for local and remote replication
- Support for using cloud resources to complement on-premises storage
- Three-site data replication capabilities

Data availability is crucially important to the business because downtime causes immediate business impacts, including loss of customer loyalty and significant financial costs. IBM Spectrum Virtualize in FlashSystem 5015 and FlashSystem 5035 can deliver “six nines” (99.9999%) data availability. These systems are designed for high availability, with no single point of failure, enterprise-proven control software, and nondisruptive maintenance. In addition, cloud-based Storage Insights functionality available with FlashSystem 5035 helps detect configuration errors to improve availability.

IBM FlashSystem 5000 can operate in DRAID 1, 5, or 6 modes. A key advantage is its ability to operate at full DRAID protection and efficiency with only three drives. This means that cost-sensitive users can start with a smaller CapEx and add capacity as needed. IBM DRAID 1 data can be read from all three drives, which provides a performance boost over traditional RAID 1 approaches, as well as allowing full recovery with loss of one drive.

To further enhance data protection and system recoverability, IBM has also included three-site replication on the FlashSystem 5035 array using a combination of FlashCopy and remote copy. This IBM Spectrum Virtualize-powered three-site replication capability runs data copies at both metro and global distances to offer a variety of recovery point and time options.

Increased efficiency

Available with the IBM FlashSystem 5035 model, data reduction pools help transform the economics of data storage. When applied to new or existing storage, they can significantly increase usable capacity while maintaining consistent application performance. This can help eliminate or drastically reduce costs for storage acquisition, rack space, power, and cooling, and can extend the useful life of existing storage assets. Capabilities include:

- Block deduplication that works across all the storage in a data reduction pool to minimize the number of identical blocks
- New compression technology that provides guaranteed consistent 2:1 or better reduction performance across a wide range of application workload patterns
- SCSI UNMAP support that deallocates physical storage when operating systems delete logical storage constructs such as files in a file system

Improved data mobility

AI-enhanced Easy Tier provides automatic migration of frequently accessed data to high-performance flash storage or multiple tiers of disk drives, enhancing storage efficiencies. Operating at very fine granularity, the optional Easy Tier function automatically moves data to the optimal storage type based on input/output patterns and drive characteristics, requiring no administrative interaction.

Rock solid data resilience

IBM FlashSystem 5000 provides advanced capabilities that can help maximize data protection, security and high availability to significantly reduce the risk of disruption and financial losses due to user errors, malicious destruction or ransomware attacks.

Physical isolation layers can be created by storing sensitive copies in immutable storage, cloud environments or off-line write-once read many (WORM) tape devices to provide true “air-gap” protection. To help protect sensitive data from unauthorized users, IBM FlashSystem 5035 gives IT teams the full power of storage encryption. In addition to placing encryption inside hardware arrays, IBM Spectrum Virtualize includes encryption capabilities in its management layer.

And with more organizations looking to adopt data resilience solutions that go beyond simple data backup and recovery, the [IBM Spectrum Protect](#) portfolio is the perfect complement for IBM FlashSystem. It provides unified end-to-end workload protection, both on-premises and in the cloud, including applications, VMs, file systems, SaaS workloads, AWS EC2 instances, and containers.

Innovative virtualization and container technologies

IBM Spectrum Virtualize in FlashSystem 5000 systems complements server virtualization with technologies such as PowerVM, Microsoft Hyper-V, VMware vSphere, and the container technologies Kubernetes and Docker.

Similar to virtualized servers, provisioning FlashSystem 5000 capacity is achieved with software and thin provisioning and is designed to be an almost entirely automated function. Without these technologies, provisioning servers could be slowed by the need to provision storage.

Containers enable applications to be packaged with everything needed to run identically in any environment. They offer the versatility of virtual machines, but at a much smaller footprint and cost. As a result, containerization is a key enabling technology for flexibly delivering workloads to private and public cloud and DevOps. Using the IBM storage container plug-in framework,

FlashSystem 5000 systems can enable any supported storage to be used as persistent storage in Docker and Kubernetes container environments, improving flexibility, simplifying deployment, and lowering costs while offering enterprises the confidence of deploying stateful containers using highly available storage with enterprise capabilities.

Greater storage visibility, insight and control

Because data is the resource that drives your business, storage systems take on even greater importance. IBM Storage Insights and IBM Storage Insights Pro provide critical capabilities that enhance your experience with IBM storage, including:

- A single dashboard so you can see the status of all the block storage under management at a glance
- Trend information about capacity and performance so you can make better and more informed decisions
- Storage and storage network health information that helps you bring your configuration in line with best practices
- When support is needed, the ability to easily open a ticket, upload log information and view open tickets
- Detailed configuration data available to IBM specialists to help close tickets quickly

Delivered as a service from IBM Cloud at no charge, Storage Insights is quick and easy to set up and requires no ongoing software maintenance. Storage Insights Pro is an upgrade that provides more detailed information and additional capabilities.

Powerful added features

In addition to the many features and capabilities noted above, IBM FlashSystem 5000 systems include:

- Innovative management capabilities to ease storage management
- High-availability configurations with HyperSwap for FlashSystem 5035
- IBM Distributed RAID 1, designed for improved performance with small configurations
- FlashCopy function and remote mirroring to create copies of data for back up and disaster recovery

- Dual clustering for FlashSystem 5035 to enable growth from smaller configurations
- Options to nondisruptively upgrade in the field from FlashSystem 5015 to FlashSystem 5035, providing investment protection with the ability to grow capacity and performance in the same footprint
- High-density expansion enclosures, which can hold up to 92 drives and 2.8 PB in a 5U form factor
- The option to add [IBM Spectrum Virtualize for Public Cloud](#) to enable data migration between on-premises and public cloud storage including IBM Cloud, Amazon Web Services (AWS) and Microsoft Azure, as well as the use of these cloud platforms for disaster recovery
- Support for OpenStack Cinder, which helps automate storage provisioning and volume management for organizations by combining the efficiency of FlashSystem 5000 with the OpenStack Compute cloud platform

Deploy with Confidence

In addition to the performance, capacity and scalability benefits, each IBM FlashSystem 5000 deployment includes IBM FlashWatch programs. This comprehensive suite of flash storage is designed to enhance the end-to-end ownership experience, providing the confidence to purchase, own and upgrade IBM Storage. The FlashWatch programs include:

- **High availability guarantee.** High-availability capability in IBM Spectrum Virtualize enables IBM FlashSystem 5000 arrays to deliver six-nines (99.9999%) availability. FlashSystem 5035 has IBM HyperSwap® configurations available with optional 100% high availability guarantees 3-site replication, and replication to hybrid cloud deliver comprehensive options to meet a wide range of business continuity needs.³
- **Data reduction guarantee.** This program delivers the level of data reduction your IBM FlashSystem 5035 solution will provide.⁴ You can get the express version, which provides a 2:1 data reduction without system analysis. Or you can use one of the IBM system analysis tools and choose the flexible option that provides up to a 5:1 data reduction with workload profiling based on the system analysis results.
- **Predictive analytics & proactive management.** AI-powered IBM Storage Insights uses cloud-based, predictive analytics to optimize storage use and delivers proactive capabilities to streamline support at no extra cost, so you can proactively manage your environment.
- **IBM Flash Momentum.** The same innovation that constantly creates remarkable IT infrastructure improvements also accelerates IT infrastructure obsolescence. The IBM Flash Momentum program allows you to refresh your controller and storage every 3 years with full

flexibility. If you finance an IBM FlashSystem over a 3-year term, just before the 3 years expire, you can decide whether to keep it, refresh it or simply walk away. You can refresh your IBM FlashSystem for the same monthly price or less or size your system up or down to meet your needs.

- **No-cost migration.** When you deploy your new IBM FlashSystem 5000 solution, you have up to 90 days to migrate data from over 500 storage controllers at no extra charge.

¹ “Deep Learning (deep neural network),” *TechTarget.com*, Accessed March 2019.

<https://searchenterpriseai.techtarget.com/definition/deep-learning-deep-neural-network>

² “IBM Ranked # 1 in Worldwide Software-Defined Storage Software Market,” *IBM Corporation*, April 2017.

³ [The Total Economic Impact Of IBM Spectrum Virtualize](#), A Forrester Total Economic Impact Study, Commissioned by IBM, April 2020

⁴ Subject to signing a data reduction contract. 2:1 data reduction is self-certified. Up to 5:1 data reduction with workload profiling. IBM FlashWatch replaces all previous “Controller Upgrade” and “Peace of Mind” Programs, commencing with purchases made on or after 11 February 2020. Program applicability varies by product. Check “FlashWatch Product Matrix”.

IBM FlashSystem 5000 at a glance

Specifications	IBM FlashSystem 5035 with IBM Spectrum Virtualize Software	IBM FlashSystem 5015 with IBM Spectrum Virtualize Software
Models	IBM FlashSystem 5035 Models 2072-3N2 and 2072-3N4	IBM FlashSystem 5015 Models 2072-2N2 and 2072-2N4
User interface	Web-based GUI	Web-based GUI
Single or dual controller	Dual (Active/Active)	Dual (Active/Active)
Connectivity (standard)	10 Gb iSCSI (On the motherboard)	1 Gb iSCSI (On the motherboard)
Connectivity (optional)	<ul style="list-style-type: none"> • 16 Gb/s Fibre Channel • 12 Gb/s SAS • 25 Gb/s iSCSI • 10 Gb/s iSCSI 	<ul style="list-style-type: none"> • 16 Gb/s Fibre Channel • 12 Gb/s SAS • 25 Gb/s iSCSI (iWARP or RoCE) • 10 Gb/s iSCSI
Cache per control enclosure /clustered system	32GB or 64GB / 64GB or 128GB	32 GB or 64 GB
Max IOPs	1.2M IOPs	400K IOPs
Min latency	Under 70µs	Under 70µs
Max bandwidth	12GB/s	8GB/s

Specifications	IBM FlashSystem 5035 with IBM Spectrum Virtualize Software	IBM FlashSystem 5015 with IBM Spectrum Virtualize Software
Models	IBM FlashSystem 5035 Models 2072-3N2 and 2072-3N4	IBM FlashSystem 5015 Models 2072-2N2 and 2072-2N4
Drives supported	<p>Small form-factor 2.5-inch disk drives:</p> <ul style="list-style-type: none"> • 900 GB, 1.2 TB, 1.8 TB and 2.4 TB @ 10k rpm • 2 TB @ 7.2k rpm SAS nearline <p>Large form-factor 3.5-inch disk drives:</p> <ul style="list-style-type: none"> • 900 GB, 1.2 TB, 1.8 TB and 2.4 TB @ 10k rpm, SAS (2.5-inch drive in a 3.5-inch drive carrier) • 4 TB, 6 TB, 8 TB, 10 TB, 12 TB, 14 TB, 16 TB, 18 TB @ 7.2k rpm <p>2.5-inch flash drives:</p> <ul style="list-style-type: none"> • 800 GB, 1.92 TB, 3.84 TB, 7.68 TB, 15.36 TB and 30.72 TB 	<p>Small form-factor 2.5-inch disk drives:</p> <ul style="list-style-type: none"> • 900 GB, 1.2 TB, 1.8 TB and 2.4 TB @ 10k rpm • 2 TB @ 7.2k rpm SAS nearline <p>Large form-factor 3.5-inch disk drives:</p> <ul style="list-style-type: none"> • 900 GB, 1.2 TB, 1.8 TB and 2.4 TB @ 10k rpm, SAS (2.5-inch drive in a 3.5-inch drive carrier) • 4 TB, 6 TB, 8 TB, 10 TB, 12 TB, 14 TB, 16 TB, 18 TB @ 7.2k rpm <p>2.5-inch flash drives:</p> <ul style="list-style-type: none"> • 800 GB, 1.92 TB, 3.84 TB, 7.68 TB, 15.36 TB and 30.72 TB
Maximum drives supported	<p>Maximum of 504 drives per system and 1,008 drives in two-way clusters:</p> <ul style="list-style-type: none"> • Small form-factor enclosure: 24 x 2.5-inch drives • Large form-factor enclosure: 12 x 3.5-inch drives • High-density expansion enclosure: 92 x 3.5-inch drives 	<p>Maximum of 392 drives per system:</p> <ul style="list-style-type: none"> • Small form-factor enclosure: 24 x 2.5-inch drives • Large form-factor enclosure: 12 x 3.5-inch drives • High-density expansion enclosure: 92 x 3.5-inch drives
Maximum expansion enclosure capacity	<ul style="list-style-type: none"> • Up to 20 standard expansion enclosures per controller • Up to 8 high-density expansion enclosures per controller 	<ul style="list-style-type: none"> • Up to 10 standard expansion enclosures per controller • Up to 4 high-density expansion enclosures per controller
RAID levels	Distributed RAID 1, 5 and 6	Distributed RAID 1, 5 and 6
Fans and power supplies	Fully redundant, hot-swappable	Fully redundant, hot-swappable
Rack support	Standard 19-inch	Standard 19-inch
Advanced functions included with each system	<ul style="list-style-type: none"> • Virtualization of internal storage • Data reduction pools with thin provisioning, UNMAP, compression and deduplication • One-way data migration • Dual-system clustering 	<ul style="list-style-type: none"> • Virtualization of internal storage • Data reduction pools with thin provisioning and UNMAP • One-way data migration
Additional available advanced functions	<ul style="list-style-type: none"> • 90-day trial available • Easy Tier • FlashCopy • Remote mirroring • Encryption 	<ul style="list-style-type: none"> • 90-day trial available • Easy Tier • FlashCopy • Remote mirroring

Specifications	IBM FlashSystem 5035 with IBM Spectrum Virtualize Software	IBM FlashSystem 5015 with IBM Spectrum Virtualize Software
Models	IBM FlashSystem 5035 Models 2072-3N2 and 2072-3N4	IBM FlashSystem 5015 Models 2072-2N2 and 2072-2N4
Size	<p>8.7 cm (3.4 in.) H x 48.3 cm (19.0 in.) W x 55.6 cm (21.9 in.) D</p> <p>Approximate weight:</p> <ul style="list-style-type: none"> – Large form-factor control enclosure: <ul style="list-style-type: none"> • Empty: 18.0 kg (39.6 lb) • Fully configured: 28.3 kg (62.2 lb) – Large form-factor expansion enclosure: <ul style="list-style-type: none"> • Empty: 16.4 kg (36.1 lb) • Fully configured: 26.7 kg (58.8 lb) – Small form-factor control enclosure: <ul style="list-style-type: none"> • Empty: 19.0 kg (41.8 lb) • Fully configured: 27.3 kg (60.0 lb) – Small form-factor expansion enclosure: <ul style="list-style-type: none"> • Empty: 16.7 kg (36.7 lb) • Fully configured: 25.0 kg (55.2 lb) 	<p>8.7 cm (3.4 in.) H x 48.3 cm (19.0 in.) W x 55.6 cm (21.9 in.) D</p> <p>Approximate weight:</p> <ul style="list-style-type: none"> – Large form-factor control enclosure: <ul style="list-style-type: none"> • Empty: 18.0 kg (39.6 lb) • Fully configured: 28.3 kg (62.2 lb) – Large form-factor expansion enclosure: <ul style="list-style-type: none"> • Empty: 16.4 kg (36.1 lb) • Fully configured: 26.7 kg (58.8 lb) – Small form-factor control enclosure: <ul style="list-style-type: none"> • Empty: 19.0 kg (41.8 lb) • Fully configured: 27.3 kg (60.0 lb) – Small form-factor expansion enclosure: <ul style="list-style-type: none"> • Empty: 16.7 kg (36.7 lb) • Fully configured: 25.0 kg (55.2 lb)
Operating environment	<p>Air temperature:</p> <ul style="list-style-type: none"> – Operating: 10°C – 35°C (50°F – 95°F) at 30.5 m below to 3,000 m above sea level (100 ft below to 9,840 ft above) – Non-operating: -10°C – 50°C (14°F – 125°F) <p>Relative humidity:</p> <ul style="list-style-type: none"> – Operating: 20% – 85% – Non-operating: 8% – 80% 	<p>Air temperature:</p> <ul style="list-style-type: none"> – Operating: 10°C – 35°C (50°F – 95°F) at 30.5 m below to 3,000 m above sea level (100 ft below to 9,840 ft above) – Non-operating: -10°C – 50°C (14°F – 125°F) <p>Relative humidity:</p> <ul style="list-style-type: none"> – Operating: 20% – 85% – Non-operating: 8% – 80%
Warranty	<p>Hardware:</p> <ul style="list-style-type: none"> – Three-year warranty with 9 to 5 next-business-day response – Tier 1 customer-replaceable units and on-site repairs – Warranty service upgrades available <p>Post-warranty support available Customer setup (initial installation and field upgrades)</p>	<p>Hardware:</p> <ul style="list-style-type: none"> – Three-year warranty with 9 to 5 next-business-day response – Tier 1 customer-replaceable units and on-site repairs – Warranty service upgrades available <p>Post-warranty support available Customer setup (initial installation and field upgrades)</p>

Specifications	IBM FlashSystem 5035 with IBM Spectrum Virtualize Software	IBM FlashSystem 5015 with IBM Spectrum Virtualize Software
Models	IBM FlashSystem 5035 Models 2072-3N2 and 2072-3N4	IBM FlashSystem 5015 Models 2072-2N2 and 2072-2N4
Operating environment	For a list of currently supported servers, operating systems, host bus adapters, clustering applications, and SAN switches and directors, refer to the IBM System Storage Interoperation Center at: ibm.com/systems/support/storage/config/ssic	For a list of currently supported servers, operating systems, host bus adapters, clustering applications, and SAN switches and directors, refer to the IBM System Storage Interoperation Center at: ibm.com/systems/support/storage/config/ssic
ISV solutions	For a list of high-quality solutions with IBM partner ISVs, including access to solution briefs and white papers, contact your IBM representative or Business Partner.	For a list of high-quality solutions with IBM partner ISVs, including access to solution briefs and white papers, contact your IBM representative or Business Partner.

Why IBM?

The FlashSystem family of data systems from IBM is known for providing efficient, highly functional, high-performance storage for any type of workload. FlashSystem solutions, customized for entry enterprise, midrange enterprise, and high-end enterprise, are specifically designed to deliver performance in streamlined packages that are easy to deploy, easy to manage, and easy to grow.

For more information

Visit our [solutions page](#) to learn more about the FlashSystem family of data systems, or contact your IBM representative or IBM Business Partner. If you need to be connected, [fill out this form](#) to schedule a consult with an IBM storage expert.

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V8.4.0.x Configuration Limits and Restrictions for IBM FlashSystem 5x00

Preventive Service Planning

Abstract

This document lists the configuration limits and restrictions specific to IBM FlashSystem 5000, 5100 and 5200 family software version 8.4.0.x

Content

The use of WAN optimization devices such as Riverbed is not supported in native Ethernet IP partnership configurations containing FlashSystem 5x00.

Data Reduction Pools

The following restrictions apply for Data Reduction Pools (DRP):

- 1. VMware vSphere Virtual Volumes (vVols) are not supported in a DRP;
- 2. A volume in a DRP cannot be shrunk;
- 3. No volume move between I/O groups if volume in a DRP (use FlashCopy or Metro Mirror/Global Mirror instead);
- 4. No split of a volume mirror to copy in a different I/O group;
- 5. Real/used/free/free/tier capacity are not reported per volume - only per pool.

Traditional RAID

FlashSystem 5000, 5100 and 5200 systems do not support either RAID-5 or RAID-6 traditional RAID arrays.

DRAID Strip Size

For candidate drives, with a capacity greater than 4TB, a strip size of 128 cannot be specified for either RAID-5 or RAID-6 DRAID arrays. For these drives a strip size of 256 should be used.

Non-Disruptive Volume Move (NDVM)

The following Fibre Channel attached host types are supported for non-disruptively moving a volume between I/O groups (control enclosures):

Host Operating System	Host Multipathing	Host Clustering	Notes
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Host Operating System	Host Multipathing	Host Clustering	Notes
AIX 7.2	AIXPCM	Non-disruptive volume move may result in the same volume being mapped to different hosts in the same host cluster using different SCSI IDs. If the host cluster cannot tolerate this configuration then non-disruptive volume move cannot be used.	SAN boot is supported NPIV is supported
Microsoft Windows 2019	MSDSM	Hyper-V Failover Cluster	SAN boot is supported
Microsoft Windows 2016	MSDSM	Hyper-V Failover Cluster	AN Boot is supported
RedHat 8	Native		The original paths may need to be manually removed on the host after removing access to the old I/O group
SLES 15	Native		The original paths may need to be manually removed on the host after removing access to the old I/O group
VMware 6.7	Native		VAAI is supported
VMware 6.5	Native		VAAI is supported
Solaris 11.3 SPARC	MPXIO		SAN boot is supported

Note: For all other host types, I/O should be quiesced when moving a volume.

When moving a volume that is mapped to a host cluster then you must rescan disk paths on all host cluster nodes to ensure the new paths have been detected before removing access from the original I/O group.

Clustered Systems

A system requires native Fibre Channel SAN or alternatively 16Gbps/32Gbps Direct Attach Fibre Channel connectivity for communication between all nodes in the local cluster. Clustering can also be accomplished with 25Gbps Ethernet, for standard topologies. For HyperSwap topologies a SCORE request will be required. Please contact your IBM representative to raise a SCORE request. Please note that this is only supported on FS5100 systems.

Partnerships between systems for Metro Mirror or Global Mirror replication can be used with both Fibre Channel and Native Ethernet connectivity. Distances greater than 300 metres are only supported when using an FCIP link or Fibre Channel between source and target.

All systems within a cluster must be using the same version of FlashSystem 5x00 software.

Model	Clustering over Fibre Channel	Clustering over 25Gb Ethernet	HyperSwap over Fibre Channel	HyperSwap over Ethernet (25Gb only)	Metro/Global Mirror replication over Fibre Channel	Metro/Global Mirror replication over Ethernet (10Gb or 25Gb)

Model	Clustering over Fibre Channel	Clustering over 25Gb Ethernet	HyperSwap over Fibre Channel	HyperSwap over Ethernet (25Gb only)	Metro/Global Mirror replication over Fibre Channel	Metro/Global Mirror replication over Ethernet (10Gb or 25Gb)
5010/5015	Not supported	Not supported	Not supported	Not supported	Yes	Yes
5030/5035	Yes up to 2 I/O groups	Not supported	Yes up to 2 I/O groups	Not supported	Yes	Yes
5100/5200	Yes up to 4 I/O groups	Yes up to 4 I/O groups	Yes up to 4 I/O groups	Yes up to 4 I/O groups	Yes	Yes

Transparent Cloud Tiering

Transparent cloud tiering, available on FS5100 and FS5200 systems only, is defined by configuration limitations and rules. Please see the [IBM Documentation TCT maximum limits](#)

(<https://www.ibm.com/docs/en/flashsystem-5x00/8.4.0?topic=ctct-transparent-cloud-tiering-maximum-limitations-configuration-1>) page for details.

The following restrictions apply for Transparent Cloud Tiering:

- When a cloud account is created, it must continue to use the same encryption type, throughout the life of the data in that cloud account - even if the cloud account object is removed and remade on the system, the encryption type for that cloud account may not be changed while back up data for that system exists in the cloud provider.
- When performing re-key operations on a system that has an encryption enabled cloud account, perform the commit operation immediately after the prepare operation. Remember to retain the previous system master key (on USB or in Keyserver) as this key may still be needed to retrieve your cloud backup data when performing a T4 recovery or an import.
- Restore_uid option should not be used when backup is imported to a new cluster.
- Import of TCT data is only supported from systems whose backup data was created at v7.8.0.1.
- Transparent cloud tiering uses Sig V2, when connecting to Amazon regions, and does not currently support regions that require Sig V4.

NPIV (N_Port ID Virtualization)

The following recommendations and restrictions should be followed when implementing the NPIV feature.

FCoE is not supported with NPIV.

Operating systems not currently supported for use with NPIV:

- HPUX 11iV2
- Veritas DMP multipathing on Windows with RAID-5 volumes in VxVM

Other Operating Systems

Other operating Systems may also experience the same issue when changing the NPIV state from "Transitional"

to "Disabled" in which case the operating system specific rescan command should be used.

Fabric Attachment

NPIV mode on SVC or Storwize is only supported when used with Brocade or Cisco fibre channel SAN switches which are NPIV capable.

HyperSwap

When using the HyperSwap function, please configure your host multipath driver to use an ALUA-based path policy.

Due to the requirement for multiple access IO groups, SAS attached host types are not supported with HyperSwap volumes.

A volume configured with multiple access I/O groups, on a system in the storage layer, cannot be virtualized by a system in the replication layer. This restriction prevents a HyperSwap volume on one system being virtualized by another.

AIX Live Partition Mobility (LPM)

AIX LPM is supported with the HyperSwap function and AIX 7.x

Direct Attachment

SAN boot on Windows 2019 (Qlogic HBA) is not supported with 32GB direct-attached systems.

Fibre Channel Canister Connection

Please visit the [IBM System Storage Inter-operation Center \(SSIC\)](https://www.ibm.com/systems/support/storage/ssic/interoperability.wss)

(<https://www.ibm.com/systems/support/storage/ssic/interoperability.wss>) for Fibre Channel configurations supported with node HBA hardware.

Auto-negotiation with 16 and 32 Gbps networks is supported.

Note 16Gbps node hardware is supported when connected to Brocade and Cisco 16Gbps fabrics only.

Direct connections to 2Gbps, 4Gbps or 8Gbps SAN or direct host attachment to 2Gbps, 4Gbps or 8Gbps ports is not supported.

Other configured switches which are not directly connected to node HBA hardware can be any supported fabric switch as currently listed in SSIC.

25Gbps Ethernet Canister Connection

One optional 2-port 25Gbps Ethernet adapter is supported in each node canister for iSCSI communication with iSCSI capable Ethernet ports in hosts via Ethernet switches. These 2-port 25Gbps Ethernet adapters do not support FCoE.

There are two types of 25Gbps Ethernet adapter Feature supported :

- 1) RDMA over Converged Ethernet (RoCE)
- 2) Internet Wide-area RDMA Protocol (iWARP)

Either will work for standard iSCSI communications, i.e. not using Remote Direct Memory Access (RDMA). A future software release will add (RDMA) links using new protocols that support RDMA such as NVMe over Ethernet.

When use of RDMA with a 25Gbps Ethernet adapter becomes possible then RDMA links will only work between RoCE ports or between iWARP ports.

i.e. from a RoCE node canister port to a RoCE port on a host or from an iWARP node canister port to an iWARP port on a host.

For Ethernet switches and adapters supported in hosts please visit the [SSIC](#)

(<https://www.ibm.com/systems/support/storage/ssic/interoperability.wss>)

This is an example of a RoCE adapter for use in a host.

[http://www.mellanox.com/related-docs/user_manuals/ConnectX-](http://www.mellanox.com/related-docs/user_manuals/ConnectX-4_Lx_Single_and_Dual_10_25_Gbs_Ethernet_SFP28_Port_Adapter_Card_User_Manual.pdf)

[4_Lx_Single_and_Dual_10_25_Gbs_Ethernet_SFP28_Port_Adapter_Card_User_Manual.pdf](http://www.mellanox.com/related-docs/user_manuals/ConnectX-4_Lx_Single_and_Dual_10_25_Gbs_Ethernet_SFP28_Port_Adapter_Card_User_Manual.pdf)

([http://www.mellanox.com/related-docs/user_manuals/ConnectX-4_Lx_Single_and_Dual_10_25_Gbs_Ethernet_SFP28_Port_Adapter_Card_U](http://www.mellanox.com/related-docs/user_manuals/ConnectX-4_Lx_Single_and_Dual_10_25_Gbs_Ethernet_SFP28_Port_Adapter_Card_User_Manual.pdf)
[ser_Manual.pdf](http://www.mellanox.com/related-docs/user_manuals/ConnectX-4_Lx_Single_and_Dual_10_25_Gbs_Ethernet_SFP28_Port_Adapter_Card_User_Manual.pdf))

This is an example of a iWARP adapter for use in a host.

<https://www.chelsio.com/nic/unified-wire-adapters/t6225-cr/> (<https://www.chelsio.com/nic/unified-wire-adapters/t6225-cr/>)

The 25Gbps come with SFP28 fitted, which can be used to connect to switches using OM3 optical cables.

IP Partnership

IP partnerships are supported on any of the available ethernet ports. Using an Ethernet switch to convert a 25Gb to a 1Gb IP partnership, or a 10Gb to a 1Gb IP partnership is not supported. Therefore the IP infrastructure on both partnership sites must match. Bandwidth limiting on IP partnerships between both sites is supported.

VMware vSphere Virtual Volumes (vVols)

The maximum number of Virtual Machines on a single VMware ESXi host in a Storwize / vVol storage configuration is limited to 680.

The use of VMware vSphere Virtual Volumes (vVols) on a system that is configured for HyperSwap is not currently supported with SVC/Storwize.

REST API

It is not possible to access the REST API using a cluster's IPv6 address.

Host Limitations

SAN BOOT function on AIX 7.2 TL5

SAN BOOT is not supported for AIX 7.2 TL5 when connected using the NVME/FC protocol.

RDM Volumes attached to guests in VMware 7.0

Using RDM (raw device mapping) volumes attached to any guests, with the RoCE iSER protocol, results in pathing issues or inability to boot the guest.

N2225/N2226 SAS HBA

VMware 6.7 (Guest O/S SLES12SP4) connected via SAS N2225/N2226 host adapters are not supported.

Lenovo 430-16e/8e SAS HBA

VMware 6.7 and 6.5 (Guest O/S SLES12SP4) connected via SAS Lenovo 430-16e/8e host adapters are not supported.

Windows 2019 and 2016 connected via SAS Lenovo 430-16e/8e host adapters are not supported.

Windows 2016 HyperV

RHEL v7.1 guests on Windows 2016 HyperV, with Virtual Fibre Channel, are not supported.

iSER

Operating systems not currently supported for use with iSER:

- Windows 2012 R2 using Mellanox ConnectX-4 Lx EN
- Windows 2016 using Mellanox ConnectX-4 Lx EN

Windows NTP server

The Linux NTP client used by SAN Volume Controller may not always function correctly with Windows W32Time NTP Server

Fabric Limitation

Only one FCF (Fibre Channel Forwarder) switch per fabric is supported.

Storage connected directly to a Cisco Fabric Extender (FEX) is not supported.

Priority Flow Control for iSCSI/iSER

Priority Flow Control for iSCSI/ iSER is supported on Emulex & Chelsio adapters (SVC supported) with all DCBX enabled switches.

Maximum Configurations

Configuration limits for FlashSystem 5x00:

Property	Hardware Type	Maximum Number	Comments
System (Cluster) Properties			
Control enclosures per system (cluster)	FS5010/FS5015	1	Each control enclosure contains two node canisters
	FS5030/F5035 FS5100	2	
	FS5200	4	
Nodes per system	FS5010/FS5015	2	
	FS5030/FS5100	4	Arranged as two I/O groups
	FS5200	8	Arranged as four I/O groups
Nodes per fabric		64	Maximum number of Spectrum Virtualize nodes that can be present on the same Fibre Channel fabric, with visibility of each other
Fabrics per system		6	The number of counterpart Fibre Channel SANs which are supported - Up to 4 fabrics using native Fibre Channel ports
Inter-cluster partnerships per system		3	A system may be partnered with up to three remote systems. No more than four systems may be in the same connected set. A maximum of 1 IP partnership is supported per system.
IP Quorum devices per		5	

system			
Data encryption keys per system		1024	
Node Properties			
Logins per node Fibre Channel WWPN		512	Includes logins from server HBAs, disk controller ports, node ports within the same system and node ports from remote systems
Fibre Channel buffer credits per port		4095	The number of credits granted by the switch to the node
iSCSI sessions per node		1024	2048 in IP failover mode (when partner node is unavailable). This limit includes both iSCSI Host Attach AND iSCSI Initiator sessions
Managed Disk Properties			
Managed disks (MDisks) per system		4096	The maximum number of logical units which can be managed by a system, including internal arrays. Internal distributed arrays consume 16 logical units. This number also includes external MDisks which have not been configured into storage pools (managed disk groups)
Managed disks per storage pool (managed disk group)		128	
Storage pools per system		1024	
Parent pools per system		128	
Child pools per system		1023	
Managed disk extent size		8192 MB	
Capacity for an individual internal managed disk (array)		-	No limit is imposed beyond the maximum number of drives per array limits. Maximum size is dependent on the extent size of the Storage Pool. Comparison Table: Maximum Volume, MDisk and System capacity for each extent size.
Capacity for an individual external managed disk		1 PB	Note: External managed disks larger than 2 TB are only supported for certain types of storage systems. Refer to the supported hardware matrix for further details. Maximum size is dependent on the extent size of the Storage Pool. Comparison Table: Maximum Volume, MDisk and System capacity for each extent size.
Total storage capacity manageable per system		32 PB	Maximum requires an extent size of 8192 MB to be used

			<p>This limit represents the per system maximum of 2²² extents.</p> <p>Comparison Table: Maximum Volume, MDisk and System capacity for each extent size.</p>
Data Reduction Pool Properties			
Data Reduction Pools per system		4	
Mdisks per Data Reduction Pool		128	
Volume copies per data reduction pool		8192 - (Number of Data Reduction Pools * 12)	
Extents per I/O group per Data Reduction Pool		128000	
Volume (Virtual Disk) Properties			
Basic Volumes (VDisks) per system		8192	<p>Each Basic Volume uses 1 VDisk, each with one copy.</p> <p>Maximum requires a system containing two control enclosures; refer to the volumes per I/O group limit below</p>
HyperSwap volumes per system	FS5030/FS5035	1250	<p>Each HyperSwap volume uses 4 VDisks, each with one copy, 1 active-active remote copy relationship and 4 FlashCopy mappings.</p>
	FS5100/FS5200	2000	
Volumes per I/O group (volumes per caching I/O group)		8192	
Volumes accessible per I/O group		8192	
Volumes per storage pool		-	No limit is imposed beyond the volumes per system limit
Fully-allocated volume capacity		256 TB	<p>Maximum size for an individual fully-allocated volume.</p> <p>Maximum size is dependent on the extent size of the Storage Pool. Comparison Table: Maximum Volume, MDisk and System capacity for each extent size.</p>
Thin-provisioned (space-efficient) per-volume capacity for volumes copies in regular and data reduction pools		256 TB	<p>Maximum size for an individual thin-provisioned volume.</p> <p>Maximum size is dependent on the extent size of the Storage Pool. Comparison Table: Maximum Volume, MDisk and System capacity for each extent size.</p>

HyperSwap volume capacity in a single I/O group using RAID		850 TiB	This is due to the limit on bitmap space for mirroring and replication in each I/O group. See the IBM Documentation (https://www.ibm.com/support/knowledgecenter/en/STHGJJ_8.4.0/com.ibm.flashsystem.5000h.840.doc/svc_modifyiogroup_21ifvl.html) for details.
Host mappings per system		20,000	See also - volume mappings per host object below
Mirrored Volume (Virtual Disk) Properties			
Copies per volume		2	
Volume copies per system		8192	
Total mirrored volume capacity per I/O group		1024 TB	
Host Properties			
Host objects (IDs) per system	FS5010/FS5015	256	
	FS5030/FS5035 FS5100	512	
	FS5200	1024	
Host objects (IDs) per I/O group		256	
Volume mappings per host object		512	
Host Cluster Properties			
Host clusters per system		512	
Hosts in a host cluster		128	
Fibre Channel Host Properties			
Fibre Channel hosts per system	FS5010/FS5015	256	
	FS5030/FS5035 FS5100	512	
	FS5200	1024	
Fibre Channel host ports per system	FS5010/FS5015	2048	
	FS5030/FS5035 FS5100	4096	
	FS5200	8192	
Fibre Channel hosts per I/O group		256	
Fibre Channel host ports per I/O group		2048	
Fibre Channel host ports per host object (ID)		32	
iSCSI Host Properties			
iSCSI hosts per system	FS5010/FS5015	256	
	FS5030/FS5035 FS5100	512	
	FS5200	1024	
iSCSI hosts per I/O group		256	
iSCSI names per host object (ID)		4	
iSCSI names per I/O group		512	

NVMe over Fibre Channel Host Properties			
FC-NVMe hosts per system	FS5100	32	This limit is not policed by the Spectrum Virtualize software. Any configurations that exceed this limit may experience significant adverse performance impact.
	FS5200	64	
FC-NVMe hosts per I/O group	FS5100/FS5200	16	This limit is not policed by the Spectrum Virtualize software. Any configurations that exceed this limit may experience significant adverse performance impact.
Fibre Channel Logins per FC-NVMe WWPN	FS5100/FS5200	16	These are the number of FC2 logins supported.
NVMe Qualified Names (NQN) per host object (ID)	FS5100/FS5200	2	
Copy Services Properties			
Remote Copy (Metro Mirror and Global Mirror) relationships per system		4096	This can be any mix of Metro Mirror and Global Mirror relationships.
Active-Active Relationships	FS5010/FS5015	0	
	FS5030/FS5035	1250	This is the limit for the number of HyperSwap volumes in a system
	FS5100/FS5200	2000	
Max round-trip latency for FC replication		80ms	
Remote Copy relationships per consistency group		-	No limit is imposed beyond the Remote Copy relationships per system limit. Refer to the Changes to support for Global Mirror with Change Volumes page (https://www.ibm.com/support/pages/node/697149) for information relating to GMCV performance considerations and best practice.
Remote Copy consistency groups per system		256	
Total Metro Mirror and Global Mirror volume capacity per I/O group		1024 TB	This limit is the total capacity for all master and auxiliary volumes in the I/O group.
Total number of Global Mirror with Change Volumes relationships per system		256	60s cycle time (Change volumes used for active-active relationships do not count towards this limit).
		256	300s cycle time (Change volumes used for active-active relationships do not count towards this limit).
FlashCopy mappings per system		8192	
FlashCopy targets per source		256	
FlashCopy mappings per consistency group		512	
FlashCopy consistency groups per system		500	

Total FlashCopy volume capacity per I/O group		4096 TB	
3-site Remote Copy (Metro Mirror) relationships per consistency group		256	
3-site Remote Copy (Metro Mirror) consistency groups per system		16	
3-site Remote Copy (Metro Mirror) relationships per system		1024	
IP Partnership Properties			
Inter-cluster IP partnerships per system		1	A system may be partnered with up to three remote systems. A maximum of one of those can be IP and the other two FC.
I/O groups per system		2	The nodes from a maximum of two I/O groups per system can be used for IP partnership.
Inter site links per IP partnership		2	A maximum of two inter site links can be used between two IP partnership sites.
Ports per node		1	A maximum of one port per node can be used for IP partnership.
IP partnership Software Compression Limit	FS5015/FS5030 FS5035	140 MB/s	
	FS5100/FS5200	N/A	
Internal Storage Properties			
SAS chains per control enclosure	FS5010/FS5015	1	
	FS5030/FS5035 FS5100/FS5200	2	
Enclosures per SAS chain		10	
Expansion enclosures per control enclosure	FS5010/FS5015	10	
	FS5030/FS5035 FS5100/FS5200	20	
Drives per I/O group	FS5000	504	
	FS5100	760	
	FS5200	748	
Drives per system	FS5000	1008	Maximum requires a system containing two control enclosures, each with the maximum number of expansion enclosures
	FS5100	1520	
	FS5200	2992	
SCM drives per I/O group		12	
Non-Distributed RAID Array Properties			
Arrays per system	FS5010/FS5030 FS5100	128	
Drives per array	FS5010/FS5030 FS5100	16	
Min-Max member drives per RAID-0 array	FS5010/FS5030 FS5100	1-8	

Min-Max member drives per RAID-1 array	FS5010/FS5030 FS5100	2-2	
Min-Max member drives per RAID-5 array	FS5010/FS5030 FS5100	3-16	
Min-Max member drives per RAID-6 array	FS5010/FS5030 FS5100	5-16	
Min-Max member drives per RAID-10 array	FS5010/FS5030 FS5100	2-16	
Hot spare drives	FS5010/FS5030 FS5100	-	No limit is imposed
Distributed RAID Array Properties			
Arrays per system	FS5100	20	The presence of non-DRAID arrays will reduce this limit
	FS5200	32	The presence of non-DRAID arrays will reduce this limit
Encrypted arrays per system	FS5100	20	The presence of non-DRAID arrays will reduce this limit
	FS5200	32	The presence of non-DRAID arrays will reduce this limit
Arrays per I/O group		10	The presence of non-DRAID arrays will reduce this limit
Drives per array		128	
Min-Max member drives per RAID-1 array	FS5015/FS5035 FS5200	2-16	
Min-Max member drives per RAID-5 array		4-128	
Min-Max member drives per RAID-6 array		6-128	
Rebuild areas per array		1-4	
Min-Max stripe width for RAID-5 array		3-16	
Min-Max stripe width for RAID-6 array		5-16	
Max drive capacity for RAID-5 array		8 TB	
Drives added to an array in a single DRAID expansion		12	
Concurrent DRAID expansions per system		4	
Concurrent DRAID expansions per parent storage pool		1	
External Storage System Properties			
Storage system WWNNs per system (cluster)		1024	
Storage system WWPNS per system (cluster)		1024	
WWNNs per storage system		16	
WWPNs per WWNN		16	
LUNs (managed disks)		-	No limit is imposed beyond the

per storage system			managed disks per system limit
System and User Management Properties			
User accounts per system	FS5100/FS5200	400	Includes the default user accounts
	FS5010/FS5015	200	
	FS5030/FS5035		
User groups per system		256	Includes the default user groups
Authentication servers per system		1	
NTP servers per system		1	
iSNS servers per system		1	
Concurrent open SSH sessions per system		32	
Event Notification Properties			
SNMP servers per system		6	
Syslog servers per system		6	
Email (SMTP) servers per system		6	Email servers are used in turn until the email is successfully sent
Email users (recipients) per system		12	
LDAP servers per system		6	
REST API Properties			
Threads per session		64	
HTTP header size		16 KB	

Extents

The following table compares the maximum volume, MDisk and system capacity for each extent size.

Extent size (MB)	Maximum non thin-provisioned volume capacity in GB	Maximum thin-provisioned volume capacity in GB (for regular pools)	Maximum compressed volume size (for regular pools) **	Maximum thin-provisioned and compressed volume size in data reduction pools in GB	Maximum total thin-provisioned and compressed capacity for all volumes in a single data reduction pool per IOgroup in GB	Maximum MDisk capacity in GB	Maximum DRAID Mdisk capacity in TB
16	2048 (2 TB)	2000	2TB	2048 (2 TB)	2048 (2 TB)	2048 (2 TB)	32
32	4096 (4 TB)	4000	4TB	4096 (4 TB)	4096 (4 TB)	4096 (4 TB)	64
64	8192 (8 TB)	8000	8TB	8192 (8 TB)	8192 (8 TB)	8192 (8 TB)	128
128	16,384 (16 TB)	16,000	16TB	16,384 (16 TB)	16,384 (16 TB)	16,384 (16 TB)	256
256	32,768 (32 TB)	32,000	32TB	32,768 (32 TB)	32,768 (32 TB)	32,768 (32 TB)	512
512	65,536 (64 TB)	65,000	64TB	65,536 (64 TB)	65,536 (64 TB)	65,536 (64 TB)	1024 (1 TB)

	TB)			TB)	TB)	(64 TB)	PB)
1024	131,072 (128 TB)	130,000	96TB **	131,072 (128 TB)	131,072 (128 TB)	131,072 (128 TB)	2048 (2 PB)
2048	262,144 (256 TB)	260,000	96TB **	262,144 (256 TB)	262,144 (256 TB)	262,144 (256 TB)	4096 (4 PB)
4096	262,144 (256 TB)	262,144	96TB **	262,144 (256 TB)	524,288 (512 TB)	524,288 (512 TB)	8192 (8 PB)
8192	262,144 (256 TB)	262,144	96TB **	262,144 (256 TB)	1,048,576 (1024 TB)	1,048,576 (1024 TB)	16384 (16 PB)

* The total capacity values assumes that all of the storage pools in the system use the same extent size.

** Please see the [following Flash](http://www-01.ibm.com/support/docview.wss?uid=ssg1S1005731) (<http://www-01.ibm.com/support/docview.wss?uid=ssg1S1005731>)

Cross-reference information

Product	Component	Platform	Version
IBM FlashSystem 5000	Documentation	Platform Independent	8.4.0
IBM FlashSystem 5200	Documentation	Platform Independent	All Version(s)

Document Information

More support for:

[IBM FlashSystem 5000](https://www.ibm.com/mysupport/s/topic/0TO0z000000ZT0YGAW) (<https://www.ibm.com/mysupport/s/topic/0TO0z000000ZT0YGAW>)

Component:

Documentation

Software version:

8.4.0

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Family 2072+06 IBM FlashSystem 5015 and 5035

IBM Europe Sales Manual
Revised: December 7, 2021

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Product life cycle dates

Type Model	Announced	Available	Marketing Withdrawn	Service Discontinued
2072-2N2	2021-02-09	2021-02-19	-	-
2072-2N4	2021-02-09	2021-02-19	-	-
2072-3N2	2021-02-09	2021-02-19	-	-
2072-3N4	2021-02-09	2021-02-19	-	-

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Abstract

Note: Not all of the following machine type models may be available in all countries on the date listed in the Product life cycle representative for specific country availability dates.

FlashSystem 5015 and 5035 feature two node canisters in a compact, 2U 19-inch rackmount enclosure. Four different performance, scalability, and functional capabilities.

- FlashSystem 5015 SFF Dual Control Enclosure
- FlashSystem 5015 LFF Dual Control Enclosure
- FlashSystem 5035 SFF Dual Control Enclosure
- FlashSystem 5035 LFF Dual Control Enclosure

FlashSystem 5015 control enclosure models offer entry-level performance and scalability:

- Two 2-core processors and up to 64 GB of cache
- Support for 392 drives per system with the attachment of four FlashSystem 5000 high-density expansion enclosure
- Data reduction pools with thin provisioning for improved storage efficiency

FlashSystem 5035 control enclosure models offer the highest level of performance and scalability:

- Two 6-core processors and up to 64 GB of cache
- Support for 504 drives per system with the attachment of eight FlashSystem 5000 high-density expansion enclosure clustered configuration
- Data reduction pools with thin provisioning for improved storage efficiency
- Encryption of data at rest stored within the FlashSystem 5035 system

All FlashSystem 5015 and 5035 models include:

- A 2U, 19-inch rackmount enclosure with either AC or DC power
- Dual-active intelligent array node canisters

- Twelve 3.5-inch LFF or twenty-four 2.5-inch SFF drive slots within the enclosure
- Support for the attachment of FlashSystem 5000 12 Gb SAS expansion enclosures
- I/O connectivity options for 16 Gb FC, 12 Gb SAS, 10 Gb iSCSI, or 25 Gb iSCSI
- Innovative, intuitive web-based GUI for easy system setup and management
- Virtualization of internal storage for rapid, flexible provisioning and simple configuration changes
- Distributed RAID 1, 5, and 6
- Support for optional licensed features, including thin provisioning, Easy Tier, FlashCopy, and remote mirroring
 - IBM System Storage Easy Tier for automatic migration of frequently accessed data from disk drives to high performance flash
 - FlashCopy for creating instant copies of data for backup or application testing
 - Remote mirroring for data replication between systems at different locations through Metro Mirror and Global Mirror
- Extensive interoperability support with support for most major server platforms and operating systems
- One-way data migration to easily move your data onto a FlashSystem 5000 system

FlashSystem 5015 and 5035 support the attachment of existing FlashSystem 5000 expansion enclosure models 12G, 24G, and 92G. Model 12G (LFF) supports up to twelve 3.5-inch drives, while Model 24G (SFF) supports up to twenty-four 2.5-inch drives. Model 92G holds ninety-two 3.5-inch performance disk drives, high-capacity nearline disk drives, and flash (solid state) drives are supported. Drives of the same type can be attached to the same enclosure, and LFF and SFF expansion enclosures can be intermixed within a FlashSystem 5000 system.

All FlashSystem 5000 functional capabilities are provided through IBM Spectrum Virtualize licensed machine code.

Model abstract 2072-2N2

The IBM 2072 FlashSystem 5015 LFF Control Enclosure Model 2N2 features dual node canisters with a two-core, four-processor system (system total) in a compact 2U, 19-inch rack mount enclosure. 1 Gb iSCSI connectivity is standard, with optional 16 Gb iSCSI connectivity. It has twelve 3.5-inch SAS drive slots and supports the attachment of up to ten 2U expansion enclosures. This delivers support for up to 380 drives.

Model abstract 2072-2N4

The IBM 2072 FlashSystem 5015 SFF Control Enclosure Model 2N4 features dual node canisters with a two-core, four-processor system (system total) in a compact 2U, 19-inch rack mount enclosure. 1 Gb iSCSI connectivity is standard, with optional 16 Gb iSCSI connectivity. It has twenty-four 2.5-inch SAS drive slots and supports the attachment of up to ten 2U expansion enclosures. This delivers support for up to 392 drives.

Model abstract 2072-3N2

The IBM 2072 FlashSystem 5035 LFF Control Enclosure Model 3N2 features dual node canisters with a six-core processor system (system total) in a compact 2U, 19-inch rack mount enclosure. 10 Gb iSCSI connectivity is standard, with optional 16 Gb FC, 12 Gb SAS, or 25 Gb iSCSI connectivity. It has twelve 3.5-inch SAS drive slots and supports the attachment of up to twenty 2U expansion enclosures. This delivers support for up to 504 drives.

Model abstract 2072-3N4

The IBM 2072 FlashSystem 5035 SFF Control Enclosure Model 3N4 features dual node canisters with a six-core processor system (system total) in a compact 2U, 19-inch rack mount enclosure. 10 Gb iSCSI connectivity is standard, with optional 16 Gb FC, 12 Gb SAS, or 25 Gb iSCSI connectivity. It has twenty-four 2.5-inch SAS drive slots and supports the attachment of up to twenty 2U expansion enclosures. This delivers support for up to 504 drives.

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Highlights

IBM FlashSystem 5000 family delivers additional offerings with the 5015 and 5035 storage solutions. These entry-level solutions overcome their storage challenges in a cost-effective manner. Built with IBM Spectrum Virtualize software, the FlashSystem 5000 family delivers a unified storage solution.

IBM FlashSystem 5015 control enclosures feature:

- Two node canisters, each with a two-core processor
- 32 GB and 64 GB cache options (16 GB or 32 GB per canister)

- 1 Gb iSCSI (copper) connectivity standard with optional 16 Gb FC, 12 Gb SAS, and 25/10 Gb iSCSI (optical) conn
- 12 Gb SAS ports for expansion enclosure attachment
- Twelve 3.5-inch large form factor (LFF) or twenty-four 2.5-inch small form factor (SFF) drive slots within the enclos
- Data reduction pools with thin provisioning for improved storage efficiency
- Support for optional licensed features such as Easy Tier, FlashCopy, and Remote Mirroring

FlashSystem 5015 supports the attachment for up to ten 2U FlashSystem 5000 expansion enclosures or up to four 5U delivering support for up to 392 drives.

IBM FlashSystem 5035 control enclosures feature:

- Two node canisters, each with a six-core processor
- 32 GB and 64 GB cache options (16 GB or 32 GB per canister)
- 10 Gb iSCSI (copper) connectivity standard with optional 16 Gb FC, 12 Gb SAS, and 25/10 Gb iSCSI (optical) cor
- 12 Gb SAS ports for expansion enclosure attachment
- Twelve 3.5-inch LFF or twenty-four 2.5-inch SFF drive slots within the enclosure
- Data reduction pools with deduplication, compression, and thin provisioning for improved storage efficiency
- Support for optional licensed features such as Easy Tier, FlashCopy, Remote Mirroring, system clustering, HyperS

FlashSystem 5035 supports the attachment for up to twenty 2U FlashSystem 5000 expansion enclosures or up to eigh enclosures, delivering support for up to 504 drives or 1,008 in a two-way clustered system.

All models are delivered in a 2U, 19-inch rack mount enclosure and include a three-year warranty with customer replac Optional warranty service upgrades are available for enhanced levels of warranty service.

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Description

FlashSystem 5015 and 5035 offerings consist of four control enclosure models:

- **FlashSystem 5015 control enclosure models 2N2 and 2N4**
 - Two node canisters, each with a two-core processor
 - 32 GB cache (16 GB per canister) with optional 64 GB cache (32 GB per canister)
 - 1 Gb iSCSI connectivity standard with optional 16 Gb FC, 12 Gb SAS, 10 Gb iSCSI (optical), 25 Gb iSCSI (o
 - 12 Gb SAS ports for expansion enclosure attachment
 - Twelve slots for 3.5-inch LFF SAS drives (Model 2N2) and 24 slots for 2.5-inch SFF SAS drives (Model 2N4)
 - 2U, 19-inch rack mount enclosure with 100 - 240 V AC or -48 V DC power supplies
- **FlashSystem 5035 control enclosure models 3N2 and 3N4**
 - Two node canisters, each with a six-core processor
 - 32 GB cache (16 GB per canister) with optional 64 GB cache (32 GB per canister)
 - 10 Gb iSCSI (copper) connectivity standard with optional 16 Gb FC, 12 Gb SAS, 10 Gb iSCSI (optical), and 2
 - 12 Gb SAS ports for expansion enclosure attachment
 - Twelve slots for 3.5-inch LFF SAS drives (Model 3N2) and 24 slots for 2.5-inch SFF SAS drives (Model 3N4)
 - 2U, 19-inch rack mount enclosure with 100 - 240 V AC or -48 V DC power supplies

All models are available with a three-year warranty.

FC, SAS, and iSCSI connectivity with intermix flexibility

All FlashSystem 5015 and 5035 control enclosures include 1 Gb or 10 Gb Ethernet ports standard for iSCSI connectivi extended with additional ports or enhanced with additional connectivity through an optional I/O adapter card feature. Th

1 Gb Ethernet (iSCSI)	10 Gb Ethernet - Copper (iSCSI)	12 Gb SAS	16 Gb FC	10 Gb Ethernet - Optical (iSCSI)
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FlashSystem 5015	4 ports (standard)	N/A	8 ports (with optional adapter card feature(1))	8 ports (with optional adapter card feature(1))	8 ports (with optional adapter card feature(1))
FlashSystem 5035	N/A	4 ports (standard)	8 ports (with optional adapter card feature(1))	8 ports (with optional adapter card feature(1))	8 ports (with optional adapter card feature(1))

Note: (1) One optional I/O adapter card feature is allowed per FlashSystem 5000 control enclosure.

Note: N/A = Not available

Select ports on FlashSystem 5000 control enclosures support additional link speeds. For example, the 10 Gb Ethernet support 1 Gb iSCSI. For a comprehensive list of supported environments, devices, and configurations, go to the [IBM S](#)

Drive options and intermix flexibility meet a complete range of needs

FlashSystem 5000 is designed to support a complete range of data storage requirements, from highly utilized applications with hybrid or all-flash solutions.

The following 3.5-inch LFF drives are supported:

- High-performance, enterprise-class disk drives: 900 GB, 1.2 TB, 1.8 TB, and 2.4 TB 10,000 rpm(2)
- High-capacity, archival class nearline disk drives: 4 TB, 6 TB, 8 TB, 10 TB, 12 TB, 14 TB, 16 TB, and 18 TB 7,200

Note: (2) These are 2.5-inch drives packaged in a 3.5-inch carrier.

The following 2.5-inch SFF drives are supported:

- Flash drives: 800 GB, 1.92 TB, 3.84 TB, 7.68 TB, 15.36 TB, and 30.72 TB
- High-performance, enterprise class disk drives: 900 GB, 1.2 TB, 1.8 TB, and 2.4 TB 10,000 rpm
- High-capacity, archival class nearline disk drives: 2 TB 7,200 rpm

All drives are dual-port and hot-swappable. Drives of the same form factor can be intermixed within an enclosure, and intermixed behind either an LFF or SFF control enclosure.

Scalable configurations respond to growing capacity needs

FlashSystem 5015 systems scale to 392 drives per system with the attachment of four FlashSystem 5000 high-density

FlashSystem 5035 system scales to 504 drives per system with the attachment of eight FlashSystem 5000 high-density systems can be clustered to help deliver even greater performance, bandwidth, and storage capacity. With two-way scaling, FlashSystem 5035 system increases to 1,008 drives.

Designed for high availability

FlashSystem 5015 and 5035 are designed to offer high system and data availability with the following features:

- Dual-active, intelligent node canisters with mirrored cache
- Dual-port drives with automatic drive failure detection
- Distributed RAID 1, 5, and 6
- Redundant hardware, including power supplies and fans
- Hot-swappable and client replaceable components
- Automated path failover support for the data path between the server and the drives
- HyperSwap, only available on 5035 models

Rich set of functional capabilities standard with every system

As a member of the FlashSystem family, FlashSystem 5015 and 5035 leverage IBM Spectrum Virtualize software functions are included with FlashSystem 5015 and 5035 models:

- Distributed RAID 1, 5, and 6 provides the flexibility to choose the level of data protection required.
- Virtualization of internal storage enables rapid, flexible provisioning and simple configuration changes.
- Thin provisioning optimizes efficiency by allocating disk storage space in a flexible manner among multiple users, each user at any given time. With thin provisioning, applications consume only the space they are actually using, rather than the total space available.
- Data reduction pools increase existing infrastructure capacity utilization by leveraging the following efficiency functions:
 - Automatically deallocate and reclaim capacity of thin-provisioned volumes containing deleted data and, for the 5035 only, make it available to be reused by other volumes.
 - Block deduplication for increased efficiency of storage usage by utilizing pointers in duplicate blocks rather than storing duplicate data (5035 only).
 - Compression improves efficiency by storing more active primary data in the same physical disk space (FlashSystem 5000 only).
- Dynamic migration delivers efficiency and business value through a nondisruptive migration function.
- FlashCopy enables you to create copies of data for backup, parallel processing, testing, and development, and has been available since FlashSystem 5015 and 5035 support up to 64 FlashCopy mappings per system.
- Graphical user interface delivers intuitive data management designed with point-and-click system management capabilities.

Optional licensed functions and 90-day trial period

FlashSystem 5015 and 5035 capabilities can be expanded with the following optional licensed functions. Each function covers the entire system (control enclosure and all attached expansion enclosures).

To help evaluate the benefits of these capabilities, licensed functions (with the exception of FlashCopy upgrade) can be used for a 90-day trial period. Trials are initiated from the FlashSystem management GUI and do not require any IBM intervention. Upon expiration, the trial functions are automatically disabled unless a license key for that function has been installed onto the machine.

- FlashCopy enables the creation of copies of data for backup, parallel processing, testing, and development, and has been available since FlashSystem 5015 and 5035 support up to 64 targets per system at no charge. The FlashSystem 5000 supports up to 8,192 FlashCopy mappings per system.
- Easy Tier storage tiering helps optimize storage use with data location to improve system performance, reduce costs, and protect data. Easy Tier automatically and dynamically moves frequently accessed data to flash (solid state) drives in the system, resulting in faster access times. Easy Tier also simplifies creating and managing storage tier policies. Easy Tier makes it easy and economical to deploy flash drives in the system.
- Remote mirroring provides storage system-based data replication using either synchronous or asynchronous data replication:
 - Metro Mirror is designed to maintain a fully synchronized copy at metropolitan distances (up to 300 km).
 - Global Mirror is designed to operate asynchronously and helps maintain a copy at much greater distances (up to 1,000 km).
 - Both functions are designed to support VMware Site Recovery Manager to help speed disaster recovery.
 - For ultimate flexibility, FlashSystem 5000 remote mirroring is designed to interoperate with any other IBM Storage system: FlashSystem 5000, FlashSystem 7000, FlashSystem 9000, and IBM SAN Volume Controller.
 - The remote mirroring option must be acquired (or licensed) for both the primary (local) and secondary (remote) systems. If the secondary system is a system other than FlashSystem 5000, the other system must have the appropriate and applicable license.
- HyperSwap requires remote mirroring to be activated on the machine. It delivers high availability configurations for VMware vSphere environments.

Encryption for enhanced data security with FlashSystem 5035

FlashSystem 5035 supports encryption for data at rest. Encryption is performed by the FlashSystem 5035 control enclosure. For FlashSystem 5035 systems, the FlashSystem 5035 control enclosure, and all attached FlashSystem 5000 expansion enclosures.

Encryption is enabled on FlashSystem 5035 through the acquisition of the Encryption Enablement feature. This feature is available on FlashSystem 5035 systems.

The Encryption USB Flash Drives (Four Pack) feature or IBM Security Key Manager (SKLM) are required for encryption.

IBM Storage Insights

Available at no charge, cloud-based IBM Storage Insights provides a single dashboard that gives you a clear view of all your storage assets. It helps you make better decisions by seeing trends in performance and capacity. Storage health information enables you to focus on what support is needed, Storage Insights simplifies uploading logs, speeds resolution with online configuration data, and provides a single place. Storage Insights Pro is a subscription service that provides longer historical views of data, more reporting and analytics, and block storage together with EMC VNX and VMAX.

There is no ordering required. For registration and installation information, see the [IBM Storage Insights Enrollment](#) website.

Accessibility by people with disabilities

Accessibility Compliance Reports (previously known as a VPAT) containing details on accessibility compliance to stanc Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, can be found on the [IBM website](#).

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Models

Model summary matrix

Model	Description	Memory	Capacity (raw)	Flash technology	Drive protocol
2N2	IBM FlashSystem 5015 LFF Control Enclosure	32 GB - 64 GB	168 TB	SSD	SAS
2N4	IBM FlashSystem 5015 SFF Control Enclosure	32 GB - 64 GB	720 TB	SSD	SAS
3N2	IBM FlashSystem 5035 LFF Control Enclosure	32 GB - 64 GB	168 TB	SSD	SAS
3N4	IBM FlashSystem 5035 SFF Control Enclosure	32 GB - 64 GB	720 TB	SSD	SAS

Customer setup (CSU)

Yes.

Devices supported

None.

Model conversions

From	To		
Type	Model	Type	Model
2072	2N2	2072	3N2
2072	2N4	2072	3N4

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Technical description

- [↓ Physical specifications](#)
[↓ Operating environment](#)
[↓ Limitations](#)
- [↓ Hardware requirements](#)
[↓ Software requirements](#)

Physical specifications

- Height: 8.7 cm (3.4 in.)
- Width: 48.3 cm (19.0 in.)
- Depth: 55.6 cm (21.9 in.)
- Approximate weight:
 - LFF control enclosure:
 - Empty: 17.4 kg (38.3 lb)
 - Fully configured: 27.7 kg (61.0 lb)
 - SFF control enclosure:
 - Empty: 17.7 kg (38.9 lb)
 - Fully configured: 26.0 kg (57.2 lb)

To assure installability and serviceability in non-IBM industry- standard racks, review the installation planning informati requirements.

Operating environment

Air temperature

- Operating:
 - 5°C - 40°C (41°F - 104°F) up to 950 m (3,117 ft) above sea level
 - Above 950 m, de-rate maximum air temperature 1 degree per 175 m
- Nonoperating: 1°C - 60°C (33.8°F - 140°F)

Relative humidity

- Operating: 8% - 85%
- Nonoperating: 8% - 85%

Electrical power

- AC power:
 - Voltage range: 100 - 240 V AC
 - Frequency: 50 - 60 Hz
 - Power: 800 watts
- DC power:
 - Voltage range: -42 to -60 V DC
 - Voltage nominal: -48 V DC
 - Current: 12.0 A
 - Power: 800 watts

Models with the DC power feature require an electrically rated 20A circuit breaker for the -48 V DC input. The wiring be FlashSystem 5000 DC power supply connectors must be with 12 AWG copper wires.

Heat dissipation

- 2,730 BTU per hour

Acoustical noise emission

- 6.2 bels (idling)
- 6.1 bels (operating)

Limitations

Drive considerations

Distributed RAID 1, 5, and 6 configurations are supported.

Configuration limitations and restrictions

For FlashSystem 5000 configuration limits and restrictions, go to the [IBM Support Portal](#) and enter **FlashSystem 5000** the Search support box.

Consider the following rules when planning for the maximum configuration in terms of drive slots and expansion enclos configured with.

Expansion enclosure attachment rules:

Product	Machine Model	Machine type	SAS chains per control enclosure or node pair	Max. expansion enclosure per SAS chain (2U- / 5U-92G)	Max. qty of drives per SAS chain	Max. qty of drives per control enclosure or node pair	Max. qty of drives per clustered system
FlashSystem 5015	2072	2N2, 2N4	1	10/4	368	392	N/A

2U expansion enclosures and 5U expansion enclosure mix rules:

Maximum number of drive slots per SAS expansion string 5U											
2U	0	1	2	3	4	5	6	7	8	9	10
0	0	24	48	72	96	120	144	168	192	216	240
1	92	116	140	164	188	212	236	260	-	-	-
2	184	208	232	256	280	304	-	-	-	-	-
3	276	300	324	-	-	-	-	-	-	-	-
4	368	-	-	-	-	-	-	-	-	-	-

Encryption

The Encryption Enablement feature (number ALE1) and the Encryption USB Drive Pack feature (feature number ALEC models, and are not available in the following countries:

- Belarus
- Kazakhstan
- People's Republic of China
- Russia

Shipments to India, Russia, Japan, and Korea

FlashSystem 5000 machines shipped prior to the published planned availability date for India, Russia, Japan, and Korea Russia, Japan, or Korea certification and product labeling requirements. If you did not acquire your machine from IBM ; are responsible for validating the machine has the appropriate certifications and product labels.

Contact your IBM sales representative or IBM Business Partner for assistance with this validation.

Certifications and product labels

Machines directly shipped from IBM are compliant with certification and product labeling requirements for the country ir responsible for validating the machine has the appropriate certifications and product labels if the machine is relocated t

Contact your IBM sales representative or IBM Business Partner for assistance with this validation.

Hardware requirements

Not applicable.

Software requirements

FlashSystem 5015 and 5035 require licensed machine code level 8.4.0.1, or later.

See the FlashSystem 5000 product documentation and the [IBM Support](#) site for additional information on licensed mac

For a comprehensive list of supported environments, devices, and configurations, go to the [IBM SSIC](#) website.

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↓ Features - Chargeable

Features - No charge

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Features - Chargeable

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 - (#ACSC) - 3m SAS Cable (mSAS HD to mSAS)
 - (#ACSQ) - 1m OM3 Fiber Cable (LC)
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 - (#ACW6) - OEM 6 FC Order Indicator
 - (#ACW7) - OEM 7 FC Order Indicator
 - (#ACW8) - OEM 8 FC Order Indicator
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 - (#AL27) - 900 GB 10,000 rpm 12 Gb SAS 3.5 Inch HDD
 - (#AL28) - 1.2 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD
 - (#AL29) - 1.8 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD
 - (#AL2A) - 2.4 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD
 - (#AL39) - 4 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD
 - (#AL3A) - 6 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD
 - (#AL3B) - 8 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD
 - (#AL3C) - 10 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD
 - (#AL3D) - 12 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD
 - (#AL3E) - 14 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD
 - (#AL3F) - 16 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD
 - (#AL3G) - 18 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD
 - (#AL4D) - 18 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD
 - (#AL68) - 900 GB 10,000 rpm 12 Gb SAS 2.5 Inch HDD

- (#AL69) - 1.2 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD
- (#AL6A) - 1.8 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD
- (#AL6B) - 2.4 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD
- (#AL76) - 2 TB 7,200 rpm 12 Gb SAS NL 2.5 Inch HDD
- (#AL80) - 1.92TB 12 Gb SAS 2.5 Inch Flash Drive
- (#AL81) - 3.84TB 12 Gb SAS 2.5 Inch Flash Drive
- (#AL82) - 7.68TB 12 Gb SAS 2.5 Inch Flash Drive
- (#AL83) - 15.36TB 12 Gb SAS 2.5 Inch Flash Drive
- (#AL84) - 30.72TB 12 Gb SAS 2.5 Inch Flash Drive
- (#AL8A) - 800 GB 3DWPd 12 Gb SAS 2.5 Inch Flash Drive
- Linecords
 - (#9716) - Power Cord - EMEA
 - (#9717) - Power Cord - Australia/NZ
 - (#9718) - Power Cord - Europe/Africa
 - (#9719) - Power Cord - Denmark
 - (#9720) - Power Cord - South Africa
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 - (#9732) - Power Cord - Taiwan
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 - (#9737) - Power Cord - Chicago
 - (#AHP4) - Power Cord - DC
 - (#AHP6) - Power Cord - PDU Connection (C20)

Feature descriptions

Note: Not all of the following features are available in all countries. Check with your country representative for specific features.

(#0021) - JEMT Indicator

This feature is used to indicate an IBM internal order for a machine under the Joint Engineering Manufacturing Test (JEMT) purposes only.

- For 2072-2N2: (#0021)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
- For 2072-2N4: (#0021)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:

- For 2072-3N2: (#0021)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
- For 2072-3N4: (#0021)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:

(#5555) - Bulk Order Indicator

This feature designates a bulk MES order for inventory stocking purposes. When this feature is specified on an order, select features can be ordered at a maximum quantity of 255.

- For 2072-2N2: (#5555)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments:
- For 2072-2N4: (#5555)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments:
- For 2072-3N2: (#5555)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments:
- For 2072-3N4: (#5555)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments:

(#9716) - Power Cord - EMEA

This feature provides two 2.8 meter 10A/250V, C13 to BS 1363 power cords for use in the following countries: Abu Dhabi, Channel Islands, Cyprus, Dominica, Gambia, Ghana, Grenada, Guyana, Hong Kong, Iraq, Ireland, Jordan, Kenya, Kuwait, Myanmar (Burma), Nigeria, Oman, Qatar, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Seychelles, Tanzania (United Republic of), Trinidad and Tobago, United Arab Emirates (Dubai), United Kingdom, Yemen, Zambia, and Zimbabwe.

- For 2072-2N2: (#9716)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes

- Plant / Field installable: Both
- Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9716)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9716)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9716)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#9717) - Power Cord - Australia/NZ

This feature provides two 2.8 meter 10A/250V, C13 to SAA-AS C112 power cords for use in the following countries: Au and Papua New Guinea.

- For 2072-2N2: (#9717)
 - Minimum required: 0

- Maximum allowed: 1 (Initial order maximum: 1)
- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9717)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9717)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9717)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#9718) - Power Cord - Europe/Africa

This feature provides two 2.8 meter 10A/250V, C13 to CEE7-VII power cords for use in the following countries: Afghani, Armenia, Austria, Azerbaijan, Belarus, Belgium, Benin, Bosnia and Herzegovina, Bulgaria, Burkina Faso, Burundi, Can

African Republic, Chad, Comoros, Congo (Democratic Republic of), Congo (Republic of), Cote D'Ivoire (Ivory Coast), C
Djibouti, Egypt, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Finland, France, French Guyana, French Polynesia, Gab
Guadeloupe, Guinea, Guinea Bissau, Hungary, Iceland, Indonesia, Iran, Kazakhstan, Kyrgyzstan, Laos (Peoples Dem
Lithuania, Luxembourg, Macedonia (former Yugoslav Republic of), Madagascar, Mali, Martinique, Mauritania, Mauritius
Mongolia, Morocco, Mozambique, Netherlands, New Caledonia, Niger, Norway, Poland, Portugal, Reunion, Romania, I
Principe, Saudi Arabia, Senegal, Serbia, Slovakia, Slovenia (Republic of), Somalia, Spain, Suriname, Sweden, Syrian
Tunisia, Turkey, Turkmenistan, Ukraine, Upper Volta, Uzbekistan, Vanuatu, Vietnam, Wallis and Futuna, Yugoslavia (F

- For 2072-2N2: (#9718)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9718)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9718)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9718)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.

- Maximum allowed applies to total quantity of all power cord features.
- When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#9719) - Power Cord - Denmark

This feature provides two 2.8 meter 10A/250V, C13 to DK2-5a power cords.

- For 2072-2N2: (#9719)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9719)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9719)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9719)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.

- One power cord feature (97xx or AHPx) must be specified with every machine order.
- Maximum allowed applies to total quantity of all power cord features.
- When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#9720) - Power Cord - South Africa

This feature provides two 2.8 meter 10A/250V, C13 to SABS 164/1 power cords for use in the following countries: Bangladesh, Namibia, Nepal, Pakistan, Samoa, South Africa, Sri Lanka, Swaziland, and Uganda.

- For 2072-2N2: (#9720)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9720)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9720)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9720)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:

- Feature AHPA is required.
- Not compatible with feature ADN2 on the initial machine order.
- One power cord feature (97xx or AHPx) must be specified with every machine order.
- Maximum allowed applies to total quantity of all power cord features.
- When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#9721) - Power Cord - Switzerland

This feature provides two 2.8 meter 10A/250V, C13 to IEC 60884 Standard Sheet 416534-2 (CH Type 12) power cords Liechtenstein and Switzerland.

- For 2072-2N2: (#9721)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9721)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9721)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9721)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes

- Plant / Field installable: Both
- Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#9722) - Power Cord - Chile/Italy

This feature provides two 2.8 meter 10A/250V, C13 to CEI 23-16 power cords for use in the following countries: Chile,

- For 2072-2N2: (#9722)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9722)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9722)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9722)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)

- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features

(#9723) - Power Cord - Israel

This feature provides two 2.8 meter 10A/250V, C13 to SI 32 power cords.

- For 2072-2N2: (#9723)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9723)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9723)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9723)
 - Minimum required: 0

- Maximum allowed: 1 (Initial order maximum: 1)
- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#9725) - Power Cord - Argentina

This feature provides two 2.8 meter 10A/250V, C13 to IRAM 2073 power cords for use in the following countries: Arger

- For 2072-2N2: (#9725)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9725)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9725)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

- For 2072-3N4: (#9725)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features

(#9726) - Power Cord - China

This feature provides two 2.8 meter 10A/250V, C13 to GB 2099.1 power cords.

- For 2072-2N2: (#9726)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9726)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9726)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.

- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9726)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#9730) - Power Cord - PDU Connection

This feature provides two 2.0 meter rack power distribution unit (PDU) C13 to C14 power cords.

- For 2072-2N2: (#9730)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9730)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9730)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.

- When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9730)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#9731) - Power Cord - US/Group 1

This feature provides two 2.8 meter 10A/125V, C13 to NEMA 5-15P power cords for use in the following countries: Antigua and Barbados, Belize, Bermuda, Bolivia, Canada, Cayman Islands, Costa Rica, Columbia, Cuba, Dominican Republic, Ecuador, Honduras, Jamaica, Mexico, Micronesia (Federal States of), Netherlands Antilles, Nicaragua, Panama, Peru, Philippines, Puerto Rico, Virgin Islands, United States, and Venezuela

- For 2072-2N2: (#9731)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9731)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9731)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.

- Not compatible with feature ADN2 on the initial machine order.
- One power cord feature (97xx or AHPx) must be specified with every machine order.
- Maximum allowed applies to total quantity of all power cord features.
- When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9731)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#9732) - Power Cord - Taiwan

This feature provides two 2.8 meter 10A/125V, C13 to CNS 10917-3 power cords.

- For 2072-2N2: (#9732)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9732)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9732)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both

- Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9732)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#9733) - Power Cord - Brazil

This feature provides two 2.8 meter 10A/250V, C13 to NBR 6147 power cords.

- For 2072-2N2: (#9733)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9733)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9733)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes

- Plant / Field installable: Both
- Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9733)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#9734) - Power Cord - India

This feature provides two 2.8 meter 10A/250V, C13 to IS 6538 power cords.

- For 2072-2N2: (#9734)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9734)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9734)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)

- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9734)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#9735) - Power Cord - Japan

This feature provides two 4.3 meter 12A/125V, C13 to JIS C-8303 power cords.

- For 2072-2N2: (#9735)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9735)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9735)
 - Minimum required: 0

- Maximum allowed: 1 (Initial order maximum: 1)
- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9735)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#9736) - Power Cord - Korea

This feature provides two 2.8 meter 12A/250V, C13 to KS C8305 power cords.

- For 2072-2N2: (#9736)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9736)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

- For 2072-3N2: (#9736)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9736)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features

(#9737) - Power Cord - Chicago

This feature provides two 1.8 meter 15A/125V, C13 to NEMA 5-15P power cords.

- For 2072-2N2: (#9737)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#9737)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.

- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#9737)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#9737)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#A2EV) - RFID AG/AP: 902-928 Mhz

This feature provides a 902 - 928 MHz RFID tag for asset tracking.

- For 2072-2N2: (#A2EV)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: This feature provides a 902 to 928 MHz RFID tag for asset tracking.
- For 2072-2N4: (#A2EV)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: This feature provides a 902 to 928 MHz RFID tag for asset tracking.
- For 2072-3N2: (#A2EV)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: This feature provides a 902 to 928 MHz RFID tag for asset tracking.
- For 2072-3N4: (#A2EV)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes

- Plant / Field installable: Initial
- Comments: This feature provides a 902 to 928 MHz RFID tag for asset tracking.

(#A2EW) - RFID EMEA: 865.6-867.8 Mhz

This feature provides a 865.6 - 867.8 MHz RFID tag for asset tracking.

- For 2072-2N2: (#A2EW)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: This feature provides a 865.6 to 867.8 MHz RFID tag for asset tracking.
- For 2072-2N4: (#A2EW)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: This feature provides a 865.6 to 867.8 MHz RFID tag for asset tracking.
- For 2072-3N2: (#A2EW)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: This feature provides a 865.6 to 867.8 MHz RFID tag for asset tracking.
- For 2072-3N4: (#A2EW)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: This feature provides a 865.6 to 867.8 MHz RFID tag for asset tracking.

(#ACHQ) - 10 GbE SW SFP+ Transceivers (Four)

This feature provides four 10 Gb shortwave SFP+ transceivers to populate a pair of 25/10 GbE host interface cards. Tl ports to 10Gb.

- For 2072-2N2: (#ACHQ)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBE or ALBF is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ACHQ)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:

- Feature ALBE or ALBF is required.
- Not compatible with feature ADN2 on the initial machine order.
- When feature 5555 is present on the order, maximum allowed is 255.
- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ACHQ)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBE or ALBF is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ACHQ)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBE or ALBF is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ACHU) - 16 Gb FC LW SFP Transceivers (Pair)

This feature provides two 16 Gb longwave SFP transceivers for use with 16 Gb FC I/O ports.

- For 2072-2N2: (#ACHU)
 - Minimum required: 0
 - Maximum allowed: 4 (Initial order maximum: 4)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBB is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ACHU)
 - Minimum required: 0
 - Maximum allowed: 4 (Initial order maximum: 4)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBB is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ACHU)
 - Minimum required: 0
 - Maximum allowed: 4 (Initial order maximum: 4)

- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Feature ALBB is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ACHU)
 - Minimum required: 0
 - Maximum allowed: 4 (Initial order maximum: 4)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBB is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ACSA) - 0.6m SAS Cable (mSAS HD to mSAS)

These features provide a mini-SAS HD 4x terminated with an SFF-8644 (HD) connector and an SFF-8088 connector for use for I/O connectivity to server SAS port that supports an SFF-8088 connector.

Note: This cable cannot be used for attachment of FlashSystem expansion enclosures. Features ACUx are used for attachment of FlashSystem expansion enclosures.

- For 2072-2N2: (#ACSA)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ACSA)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ACSA)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required

- Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ACSA)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ACSB) - 1.5m SAS Cable (mSAS HD to mSAS)

These features provide a mini-SAS HD 4x terminated with an SFF-8644 (HD) connector and an SFF-8088 connector for use with a server SAS port that supports an SFF-8088 connector.

Note: This cable cannot be used for attachment of FlashSystem expansion enclosures. Features ACUx are used for

- For 2072-2N2: (#ACSB)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ACSB)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ACSB)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.

- Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
- When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ACSB)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ACSC) - 3m SAS Cable (mSAS HD to mSAS)

These features provide a mini-SAS HD 4x terminated with an SFF-8644 (HD) connector and an SFF-8088 connector for use with server SAS port that supports an SFF-8088 connector.

Note: This cable cannot be used for attachment of FlashSystem expansion enclosures. Features ACUx are used for

- For 2072-2N2: (#ACSC)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ACSC)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ACSC)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).

- When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ACSC)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ACSQ) - 1m OM3 Fiber Cable (LC)

These features provide a 50.0/125 micrometer OM3 fiber optic cable terminated with LC Duplex connectors. They are used for server or fabric ports.

- For 2072-2N2: (#ACSQ)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ACSQ)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ACSQ)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.

- Not compatible with feature ADN2 on the initial machine order.
- When feature 5555 is present on the order, maximum allowed is 255 per feature.
- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ACSQ)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ACSR) - 5m OM3 Fiber Cable (LC)

These features provide a 50.0/125 micrometer OM3 fiber optic cable terminated with LC Duplex connectors. They are used for server or fabric ports.

- For 2072-2N2: (#ACSR)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ACSR)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ACSR)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)

- Maximum allowed applies to total quantity of all fiber optic cable features.
- Total quantity of all fiber optic cable features cannot exceed eight.
- Not compatible with feature ADN2 on the initial machine order.
- When feature 5555 is present on the order, maximum allowed is 255 per feature.
- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ACSR)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ACSS) - 10m OM3 Fiber Cable (LC)

These features provide a 50.0/125 micrometer OM3 fiber optic cable terminated with LC Duplex connectors. They are used for server or fabric ports.

- For 2072-2N2: (#ACSS)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ACSS)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ACSS)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both

- Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ACSS)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features

(#ACST) - 25m OM3 Fiber Cable (LC)

These features provide a 50.0/125 micrometer OM3 fiber optic cable terminated with LC Duplex connectors. They are used for server or fabric ports.

- For 2072-2N2: (#ACST)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ACST)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ACST)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)

- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ACST)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - A Fibre Channel or Ethernet adapter card feature is required (ALBB, ALBD, ALBE, ALBF, or ALBG)
 - Maximum allowed applies to total quantity of all fiber optic cable features.
 - Total quantity of all fiber optic cable features cannot exceed eight.
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ACUA) - 0.6m 12 Gb SAS Cable (mSAS HD to mSAS HD)

These features provide a 12 Gb mini-SAS HD 4x cable terminated with SFF-8644 (HD) connectors. They are used: For supports an SFF-8644 (HD) connector. To connect an expansion enclosure to a control enclosure or to another expansion enclosure. **Note: If this cable will be used for I/O, you must ensure the server port supports an SFF-8644 (HD) connector. See the server port options.**

- For 2072-2N2: (#ACUA)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ACUA)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ACUA)
 - Minimum required: 0

- Maximum allowed: 8 (Initial order maximum: 8)
- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ACUA)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ACUB) - 1.5m 12 Gb SAS Cable (mSAS HD to mSAS HD)

These features provide a 12 Gb mini-SAS HD 4x cable terminated with SFF-8644 (HD) connectors. They are used: For expansion enclosure to a control enclosure or to another expansion enclosure. **Note: If this cable will be used for I/O, you must ensure the server port supports an SFF-8644 (HD) connector. See the server port I/O cable options.**

- For 2072-2N2: (#ACUB)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ACUB)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ACUB)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)

- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ACUB)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ACUC) - 3m 12 Gb SAS Cable (mSAS HD to mSAS HD)

These features provide a 12 Gb mini-SAS HD 4x cable terminated with SFF-8644 (HD) connectors. They are used:

- To connect an expansion enclosure to a control enclosure or to another expansion enclosure.

Note: If this cable will be used for I/O, you must ensure the server port supports an SFF-8644 (HD) connector. For more information about supported cable options, see the following section.

- For 2072-2N2: (#ACUC)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ACUC)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ACUC)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes

- Plant / Field installable: Both
- Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ACUC)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ACUE) - 6m 12 Gb SAS Cable (mSAS HD to mSAS HD)

These features provide a 12 Gb mini-SAS HD 4x cable terminated with SFF-8644 (HD) connectors. They are used: For supports an SFF-8644 (HD) connector. To connect an expansion enclosure to a control enclosure or to another expansion enclosure.

Note: If this cable will be used for I/O, you must ensure the server port supports an SFF-8644 (HD) connector. For more information, see the server's documentation.

Cable options.

- For 2072-2N2: (#ACUE)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ACUE)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ACUE)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both

- Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ACUE)
 - Minimum required: 0
 - Maximum allowed: 8 (Initial order maximum: 8)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALBA is required
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all SAS cables features (ACSx and ACUx).
 - When feature 5555 is present on the order, maximum allowed is 255 per cable feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ACW1) - OEM 1 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACW1)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACW1)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACW1)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACW1)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACW2) - OEM 2 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACW2)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACW2)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACW2)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACW2)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACW3) - OEM 3 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACW3)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACW3)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACW3)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACW3)

- Minimum required: 0
- Maximum allowed: 255 (Initial order maximum: 255)
- Customer setup: Yes
- Plant / Field installable: MES
- Comments: e-config: Do not model or allow selection of this feature.

(#ACW4) - OEM 4 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACW4)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACW4)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACW4)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACW4)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACW5) - OEM 5 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACW5)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACW5)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes

- Plant / Field installable: MES
- Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACW5)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACW5)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACW6) - OEM 6 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACW6)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACW6)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACW6)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACW6)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACW7) - OEM 7 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACW7)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACW7)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACW7)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACW7)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACW8) - OEM 8 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACW8)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACW8)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACW8)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACW8)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)

- Customer setup: Yes
- Plant / Field installable: MES
- Comments: e-config: Do not model or allow selection of this feature.

(#ACW9) - OEM 9 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACW9)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACW9)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACW9)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACW9)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACWA) - OEM 10 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACWA)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACWA)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES

- Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACWA)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACWA)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACWB) - OEM 11 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACWB)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACWB)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACWB)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACWB)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACWC) - OEM 12 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACWC)
 - Minimum required: 0

- Maximum allowed: 255 (Initial order maximum: 255)
- Customer setup: Yes
- Plant / Field installable: MES
- Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACWC)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACWC)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACWC)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACWD) - OEM 13 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACWD)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACWD)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACWD)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACWD)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes

- Plant / Field installable: MES
- Comments: e-config: Do not model or allow selection of this feature.

(#ACWE) - OEM 14 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACWE)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACWE)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACWE)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACWE)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACWF) - OEM 15 FC Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM order comprised of features only (a field install / MES upgrade order / bulk order). The perform OEM-unique customization. IBM authorization is required prior to ordering these features.

- For 2072-2N2: (#ACWF)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACWF)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.

- For 2072-3N2: (#ACWF)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACWF)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACY1) - OEM 1 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACY1)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACY1)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACY1)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACY1)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACY2) - OEM 2 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACY2)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)

- Customer setup: Yes
- Plant / Field installable: Initial
- Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACY2)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACY2)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACY2)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACY3) - OEM 3 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACY3)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACY3)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACY3)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACY3)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial

- Comments: e-config: Do not model or allow selection of this feature.

(#ACY4) - OEM 4 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACY4)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACY4)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACY4)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACY4)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACY5) - OEM 5 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACY5)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACY5)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACY5)
 - Minimum required: 0

- Maximum allowed: 1 (Initial order maximum: 1)
- Customer setup: Yes
- Plant / Field installable: Initial
- Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACY5)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACY6) - OEM 6 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACY6)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACY6)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACY6)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACY6)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACY7) - OEM 7 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACY7)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes

- Plant / Field installable: Initial
- Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACY7)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACY7)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACY7)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACY8) - OEM 8 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACY8)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACY8)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACY8)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACY8)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACY9) - OEM 9 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACY9)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACY9)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACY9)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACY9)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACYA) - OEM 10 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACYA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACYA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACYA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)

- Customer setup: Yes
- Plant / Field installable: Initial
- Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACYA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACYB) - OEM 11 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACYB)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACYB)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACYB)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACYB)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACYC) - OEM 12 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACYC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial

- Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACYC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACYC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACYC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACYD) - OEM 13 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACYD)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACYD)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACYD)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACYD)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACYE) - OEM 14 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACYE)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACYE)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACYE)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACYE)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACYF) - OEM 15 MTM Order Indicator

(No Longer Available as of October 29, 2021)

These features indicate an OEM new machine order. They are used by IBM Manufacturing to perform OEM-unique cus prior to ordering these features.

- For 2072-2N2: (#ACYF)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-2N4: (#ACYF)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N2: (#ACYF)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)

- Customer setup: Yes
- Plant / Field installable: Initial
- Comments: e-config: Do not model or allow selection of this feature.
- For 2072-3N4: (#ACYF)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: e-config: Do not model or allow selection of this feature.

(#ACZA) - Generic Bezel

This feature provides a generic bezel set (one left bezel and one right bezel). The generic bezels are installed on the e the standard IBM-logo'ed bezels. It is intended for systems used in customized OEM solutions. Not compatible with fea

- For 2072-2N2: (#ACZA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: Not compatible with feature ADN2.
- For 2072-2N4: (#ACZA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: Not compatible with feature ADN2.
- For 2072-3N2: (#ACZA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: Not compatible with feature ADN2.
- For 2072-3N4: (#ACZA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: Not compatible with feature ADN2.

(#ACZF) - Generic Packaging

This feature provides a generic outer carton. The system will be shipped by IBM Manufacturing in the generic outer car carton. It is intended for systems used in customized OEM solutions. Not compatible with features ACYx and ADN2.

- For 2072-2N2: (#ACZF)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: Not compatible with feature ADN2.
- For 2072-2N4: (#ACZF)
 - Minimum required: 0

- Maximum allowed: 1 (Initial order maximum: 1)
- Customer setup: Yes
- Plant / Field installable: Initial
- Comments: Not compatible with feature ADN2.
- For 2072-3N2: (#ACZF)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: Not compatible with feature ADN2.
- For 2072-3N4: (#ACZF)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments: Not compatible with feature ADN2.

(#ADN1) - Order Type 1 - CTO

This feature indicates a "configure to order" (CTO) new machine order comprised of a model with required and optional order routing.

- For 2072-2N2: (#ADN1)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - Feature ADN1 or ADN2 must be specified on every initial machine order.
 - Maximum allowed applies to total quantity of feature ADN1 and ADN2.
- For 2072-2N4: (#ADN1)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - Feature ADN1 or ADN2 must be specified on every initial machine order.
 - Maximum allowed applies to total quantity of feature ADN1 and ADN2.
- For 2072-3N2: (#ADN1)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - Feature ADN1 or ADN2 must be specified on every initial machine order.
 - Maximum allowed applies to total quantity of feature ADN1 and ADN2.
- For 2072-3N4: (#ADN1)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - Feature ADN1 or ADN2 must be specified on every initial machine order.

- Maximum allowed applies to total quantity of feature ADN1 and ADN2.

(#ADN2) - Order Type 2 - MTM Only

This feature indicates a new machine order comprised of a model only with no features except as indicated below. It is

- For 2072-2N2: (#ADN2)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - Feature ADN1 or ADN2 must be specified on every initial machine order.
 - Maximum allowed applies to total quantity of feature ADN1 and ADN2.
- For 2072-2N4: (#ADN2)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - Feature ADN1 or ADN2 must be specified on every initial machine order.
 - Maximum allowed applies to total quantity of feature ADN1 and ADN2.
- For 2072-3N2: (#ADN2)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - Feature ADN1 or ADN2 must be specified on every initial machine order.
 - Maximum allowed applies to total quantity of feature ADN1 and ADN2.
- For 2072-3N4: (#ADN2)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - Feature ADN1 or ADN2 must be specified on every initial machine order.
 - Maximum allowed applies to total quantity of feature ADN1 and ADN2.

(#ADN3) - Order Type 3 - FC Only

This feature indicates an order comprised of features only (a field install / MES upgrade order / bulk order). It is used for

- For 2072-2N2: (#ADN3)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments:
 - This feature must be specified on every field install orders.
 - e-config: Testing of the 255 maximum allowed is not required. Auto-add with MES.
- For 2072-2N4: (#ADN3)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)

- Customer setup: Yes
- Plant / Field installable: MES
- Comments:
 - This feature must be specified on every field install orders.
 - e-config: Testing of the 255 maximum allowed is not required. Auto-add with MES.
- For 2072-3N2: (#ADN3)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments:
 - This feature must be specified on every field install orders.
 - e-config: Testing of the 255 maximum allowed is not required. Auto-add with MES.
- For 2072-3N4: (#ADN3)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: MES
 - Comments:
 - This feature must be specified on every field install orders.
 - e-config: Testing of the 255 maximum allowed is not required. Auto-add with MES.

(#ADNR) - No Rules Order Indicator

This feature indicates the order will not be validated by e-config and bulk ordering for inventory stocking purposes is all order or present on the machine inventory record, select features can be ordered at a maximum quantity of 255. If this feature is not specified (regardless of whether it was specified with the initial machine order or during a field upgrade to the machine), all subsequent orders will be validated by e-config.

- For 2072-2N2: (#ADNR)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - e-config: Testing of the 255 maximum allowed is not required. Password protect this feature.
- For 2072-2N4: (#ADNR)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - e-config: Testing of the 255 maximum allowed is not required. Password protect this feature.
- For 2072-3N2: (#ADNR)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - e-config: Testing of the 255 maximum allowed is not required. Password protect this feature.
- For 2072-3N4: (#ADNR)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes

- Plant / Field installable: Both
- Comments:
 - e-config: Testing of the 255 maximum allowed is not required. Password protect this feature.

(#ADZ1) - Non-China origin

This feature specifies the machine will have a country of origin other than China.

- For 2072-2N2: (#ADZ1)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: For all countries except U.S, China, India, model this feature and allow user selection of this feature.
 - e-config: For U.S, China India, do not display nor allow user selection of this feature.
- For 2072-2N4: (#ADZ1)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: For all countries except U.S, China, India, model this feature and allow user selection of this feature.
 - e-config: For U.S, China India, do not display nor allow user selection of this feature.
- For 2072-3N2: (#ADZ1)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: For all countries except U.S, China, India, model this feature and allow user selection of this feature.
 - e-config: For U.S, China India, do not display nor allow user selection of this feature.
- For 2072-3N4: (#ADZ1)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: For all countries except U.S, China, India, model this feature and allow user selection of this feature.
 - e-config: For U.S, China India, do not display nor allow user selection of this feature.

(#AG00) - Shipping and Handling NC

These features indicate whether the machine order will have a shipping and handling charge. Feature AG00: The machine has a shipping and handling charge

- For 2072-2N2: (#AG00)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - One shipping and handling charge feature (AGxx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all shipping and handling features.

- For 2072-2N4: (#AG00)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - One shipping and handling charge feature (AGxx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all shipping and handling features.
- For 2072-3N2: (#AG00)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - One shipping and handling charge feature (AGxx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all shipping and handling features.
- For 2072-3N4: (#AG00)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - One shipping and handling charge feature (AGxx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all shipping and handling features.

(#AGJW) - Shipping and Handling

These features indicate whether the machine order will have a shipping and handling charge. Features AGJx: The max charge. The charge varies by model number and the appropriate feature must be selected for the model number order.

- For 2072-2N2: (#AGJW)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - One shipping and handling charge feature (AGxx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all shipping and handling features.
 - e-config: Preselect this feature.
- For 2072-2N4: (#AGJW)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - One shipping and handling charge feature (AGxx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all shipping and handling features.
 - e-config: Preselect this feature.
- For 2072-3N2: (#AGJW)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial

- Comments:
 - One shipping and handling charge feature (AGxx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all shipping and handling features.
 - e-config: Preselect this feature.
- For 2072-3N4: (#AGJW)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - One shipping and handling charge feature (AGxx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all shipping and handling features.
 - e-config: Preselect this feature.

(#AHP4) - Power Cord - DC

This feature provides two dc power cords.

- For 2072-2N2: (#AHP4)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPB is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
 - e-config: Preselect a quantity one of this feature when feature AHPB is selected.
- For 2072-2N4: (#AHP4)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPB is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
 - e-config: Preselect a quantity one of this feature when feature AHPB is selected.
- For 2072-3N2: (#AHP4)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPB is required.
 - Not compatible with feature ADN2 on the initial machine order.

- One power cord feature (97xx or AHPx) must be specified with every machine order.
- Maximum allowed applies to total quantity of all power cord features.
- When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- e-config: Preselect a quantity one of this feature when feature AHPB is selected.
- For 2072-3N4: (#AHP4)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPB is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
 - e-config: Preselect a quantity one of this feature when feature AHPB is selected.

(#AHP6) - Power Cord - PDU Connection (C20)

This feature provides two 2.8 meter rack power distribution unit (PDU) C13 to C20 power cords.

- For 2072-2N2: (#AHP6)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
 - e-config: For Australia, Korea, New Zealand and People's Republic of China, do not allow field upgrades
- For 2072-2N4: (#AHP6)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
 - e-config: For Australia, Korea, New Zealand and People's Republic of China, do not allow field upgrades
- For 2072-3N2: (#AHP6)
 - Minimum required: 0

- Maximum allowed: 1 (Initial order maximum: 1)
- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
 - e-config: For Australia, Korea, New Zealand and People's Republic of China, do not allow field upgrades
- For 2072-3N4: (#AHP6)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPA is required.
 - Not compatible with feature ADN2 on the initial machine order.
 - One power cord feature (97xx or AHPx) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power cord features.
 - When feature 5555 is present on the order, maximum allowed is 255 per power cord feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
 - e-config: For Australia, Korea, New Zealand and People's Republic of China, do not allow field upgrades

(#AHPA) - AC Power Supply High Efficiency (Pair)

This feature provides two high efficiency ac power supplies (100 - 240 volts).

- For 2072-2N2: (#AHPA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - One power supply feature (AHPA or AHPB) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power supply features.
 - e-config: Preselect a quantity one of this feature.
- For 2072-2N4: (#AHPA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - One power supply feature (AHPA or AHPB) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power supply features.
 - e-config: Preselect a quantity one of this feature.
- For 2072-3N2: (#AHPA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial

- Comments:
 - One power supply feature (AHPA or AHPB) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power supply features.
 - e-config: Preselect a quantity one of this feature.
- For 2072-3N4: (#AHPA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - One power supply feature (AHPA or AHPB) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power supply features.
 - e-config: Preselect a quantity one of this feature.

(#AHPB) - DC Power Supply -48V (Pair)

This feature provides two dc power supplies designed to operate from an industry standard -48 volt dc power source.

- For 2072-2N2: (#AHPB)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - One power supply feature (AHPA or AHPB) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power supply features.
- For 2072-2N4: (#AHPB)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - One power supply feature (AHPA or AHPB) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power supply features.
- For 2072-3N2: (#AHPB)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - One power supply feature (AHPA or AHPB) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power supply features.
- For 2072-3N4: (#AHPB)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - One power supply feature (AHPA or AHPB) must be specified with every machine order.
 - Maximum allowed applies to total quantity of all power supply features.

(#AHPC) - 20A Circuit Breaker (Pair)

This feature provides two 20A circuit breakers for use in the IBM 7014 Model T00 rack with Power Distribution Panel (F

- For 2072-2N2: (#AHPC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPB is required.
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#AHPC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPB is required.
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#AHPC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPB is required.
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#AHPC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature AHPB is required.
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features

(#AHY1) - Future use - reserved 1

This feature is reserved for future use.

- For 2072-2N2: (#AHY1)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.

- For 2072-2N4: (#AHY1)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N2: (#AHY1)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N4: (#AHY1)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.

(#AHY2) - Future use - reserved 2

This feature is reserved for future use.

- For 2072-2N2: (#AHY2)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-2N4: (#AHY2)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N2: (#AHY2)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N4: (#AHY2)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.

(#AHY3) - Future use - reserved 3

This feature is reserved for future use.

- For 2072-2N2: (#AHY3)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-2N4: (#AHY3)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N2: (#AHY3)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N4: (#AHY3)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.

(#AHY4) - Future use - reserved 4

This feature is reserved for future use.

- For 2072-2N2: (#AHY4)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-2N4: (#AHY4)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N2: (#AHY4)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)

- Customer setup: Yes
- Plant / Field installable: Initial
- Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N4: (#AHY4)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.

(#AHY5) - Future use - reserved 5

This feature is reserved for future use.

- For 2072-2N2: (#AHY5)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-2N4: (#AHY5)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N2: (#AHY5)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N4: (#AHY5)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.

(#AHY6) - Future use - reserved 6

This feature is reserved for future use.

- For 2072-2N2: (#AHY6)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial

- Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-2N4: (#AHY6)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N2: (#AHY6)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N4: (#AHY6)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.

(#AHY7) - Future use - reserved 7

This feature is reserved for future use.

- For 2072-2N2: (#AHY7)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-2N4: (#AHY7)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N2: (#AHY7)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N4: (#AHY7)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial

- Comments:
 - e-config: Do Not model or allow selection of This feature.

(#AHY8) - Future use - reserved 8

This feature is reserved for future use.

- For 2072-2N2: (#AHY8)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-2N4: (#AHY8)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do not model or allow selection of This feature.
- For 2072-3N2: (#AHY8)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N4: (#AHY8)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.

(#AHY9) - Future use - reserved 9

This feature is reserved for future use.

- For 2072-2N2: (#AHY9)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-2N4: (#AHY9)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N2: (#AHY9)

- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- Customer setup: Yes
- Plant / Field installable: Initial
- Comments:
 - e-config: Do Not model or allow selection of This feature.
- For 2072-3N4: (#AHY9)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - e-config: Do Not model or allow selection of This feature.

(#AHZC) - VersaStack Solution Indicator

This feature indicates the machine is a component within a VersaStack Solution.

- For 2072-2N2: (#AHZC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
- For 2072-2N4: (#AHZC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
- For 2072-3N2: (#AHZC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
- For 2072-3N4: (#AHZC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:

(#AHZD) - All Flash Indicator

This feature indicates the machine is configured as an All Flash Solution and hard disk drives are not allowed for selection.

- For 2072-2N4: (#AHZD)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - Not compatible with feature AHZE.

- e-config: -
- Pre-select this feature -
- Auto-select on Models 24G, 92G when ordered in conjunction with a Model xx4 with feature AHZD. -
- Do not display or allow the selection of Model 12G when this feature is present on the initial order. -
- Do not display or allow the selection of disk drive features (features AC1x AC7x, ACPx and ACQx) when this feature is present on the order.
- For 2072-3N4: (#AHZD)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - Not compatible with feature AHZE.
 - e-config: -
 - Pre-select this feature -
 - Auto-select on Models 24G, 92G when ordered in conjunction with a Model xx4 with feature AHZD. -
 - Do not display or allow the selection of Model 12G when this feature is present on the initial order. -
 - Do not display or allow the selection of disk drive features (features AC1x AC7x, ACPx and ACQx) when this feature is present on the order.

(#AHZE) - Hybrid Flash Indicator

This feature indicates the machine is configured as an Hybrid Flash Solution and a combination of flash and disk d

- For 2072-2N2: (#AHZE)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - Not compatible with feature AHZD.
 - e-config: -
 - Auto-select on Models 12G, 24G, 92G when ordered in conjunction with a Model xx4, xx2 with feature A
- For 2072-2N4: (#AHZE)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - Not compatible with feature AHZD.
 - e-config: -
 - Auto-select on Models 12G, 24G, 92G when ordered in conjunction with a Model xx4, xx2 with feature A
- For 2072-3N2: (#AHZE)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
 - Not compatible with feature AHZD.
 - e-config: -
 - Auto-select on Models 12G, 24G, 92G when ordered in conjunction with a Model xx4, xx2 with feature A
- For 2072-3N4: (#AHZE)

- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- Customer setup: Yes
- Plant / Field installable: Initial
- Comments:
 - Not compatible with feature AHZD.
 - e-config: -
 - Auto-select on Models 12G, 24G, 92G when ordered in conjunction with a Model xx4, xx2 with feature A

(#AJGH) - Red Hat OpenShift Indicator

This feature indicates the machine is a component within a RedHat OpenShift Solution.

- For 2072-2N2: (#AJGH)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
- For 2072-2N4: (#AJGH)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
- For 2072-3N2: (#AJGH)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:
- For 2072-3N4: (#AJGH)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Initial
 - Comments:

(#AL27) - 900 GB 10,000 rpm 12 Gb SAS 3.5 Inch HDD

(No Longer Available as of January 08, 2022)(For model 2N2)

(No Longer Available as of January 08, 2022)(For model 3N2)

This feature provides one 12 Gb disk drive. This is a 2.5-inch disk drive packaged in a 3.5-inch carrier.

- For 2072-2N2: (#AL27)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).

- When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#AL27)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL28) - 1.2 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD

This feature provides one 12 Gb disk drive. This is a 2.5-inch disk drive packaged in a 3.5-inch carrier.

- For 2072-2N2: (#AL28)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#AL28)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL29) - 1.8 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD

This feature provides one 12 Gb disk drive. This is a 2.5-inch disk drive packaged in a 3.5-inch carrier.

- For 2072-2N2: (#AL29)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#AL29)

- Minimum required: 0
- Maximum allowed: 12 (Initial order maximum: 12)
- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL2A) - 2.4 TB 10,000 rpm 12 Gb SAS 3.5 Inch HDD

This feature provides one 12 Gb disk drive. This is a 2.5-inch disk drive packaged in a 3.5-inch carrier.

- For 2072-2N2: (#AL2A)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#AL2A)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL39) - 4 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD

(No Longer Available as of January 08, 2022)(For model 2N2)

(No Longer Available as of January 08, 2022)(For model 3N2)

This feature provides one 12 Gb SAS disk.

- For 2072-2N2: (#AL39)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#AL39)
 - Minimum required: 0

- Maximum allowed: 12 (Initial order maximum: 12)
- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL3A) - 6 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD

This feature provides one 12 Gb SAS disk.

- For 2072-2N2: (#AL3A)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#AL3A)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL3B) - 8 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD

This feature provides one 12 Gb SAS disk.

- For 2072-2N2: (#AL3B)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#AL3B)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both

- Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL3C) - 10 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD

This feature provides one 12 Gb SAS disk.

- For 2072-2N2: (#AL3C)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#AL3C)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL3D) - 12 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD

This feature provides one 12 Gb SAS disk.

- For 2072-2N2: (#AL3D)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#AL3D)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).

- When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
- When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features

(#AL3E) - 14 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD

This feature provides one 12 Gb SAS disk.

- For 2072-2N2: (#AL3E)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#AL3E)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features

(#AL3F) - 16 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD

This feature provides one 12 Gb SAS disk.

- For 2072-2N2: (#AL3F)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#AL3F)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features

(#AL3G) - 18 TB 7,200 rpm 12 Gb SAS NL 3.5 Inch HDD

This feature provides one 12 Gb NL-SAS drive.

- For 2072-2N2: (#AL3G)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#AL3G)
 - Minimum required: 0
 - Maximum allowed: 12 (Initial order maximum: 12)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 3.5-inch drive features (AL2x, and AL3x).
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features

(#AL68) - 900 GB 10,000 rpm 12 Gb SAS 2.5 Inch HDD

(No Longer Available as of January 08, 2022)(For model 2N4)

(No Longer Available as of January 08, 2022)(For model 3N4)

This feature provides one 12 Gb disk drive.

- For 2072-2N4: (#AL68)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#AL68)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features

(#AL69) - 1.2 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD

This feature provides one 12 Gb disk drive.

- For 2072-2N4: (#AL69)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#AL69)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL6A) - 1.8 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD

This feature provides one 12 Gb disk drive.

- For 2072-2N4: (#AL6A)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#AL6A)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL6B) - 2.4 TB 10,000 rpm 12 Gb SAS 2.5 Inch HDD

This feature provides one 12 Gb disk drive.

- For 2072-2N4: (#AL6B)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#AL6B)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features

(#AL76) - 2 TB 7,200 rpm 12 Gb SAS NL 2.5 Inch HDD

(No Longer Available as of January 08, 2022)(For model 2N4)

(No Longer Available as of January 08, 2022)(For model 3N4)

This feature provides one 12 Gb disk drive.

- For 2072-2N4: (#AL76)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#AL76)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features

(#AL80) - 1.92TB 12 Gb SAS 2.5 Inch Flash Drive

This feature provides one 12 Gb SAS solid state drive.

- For 2072-2N4: (#AL80)

- Minimum required: 0
- Maximum allowed: 24 (Initial order maximum: 24)
- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#AL80)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL81) - 3.84TB 12 Gb SAS 2.5 Inch Flash Drive

This feature provides one 12 Gb SAS solid state drive.

- For 2072-2N4: (#AL81)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#AL81)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL82) - 7.68TB 12 Gb SAS 2.5 Inch Flash Drive

This feature provides one 12 Gb SAS solid state drive.

- For 2072-2N4: (#AL82)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes

- Plant / Field installable: Both
- Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#AL82)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL83) - 15.36TB 12 Gb SAS 2.5 Inch Flash Drive

This feature provides one 12 Gb SAS solid state drive.

- For 2072-2N4: (#AL83)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#AL83)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL84) - 30.72TB 12 Gb SAS 2.5 Inch Flash Drive

This feature provides one 12 Gb SAS solid state drive.

- For 2072-2N4: (#AL84)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.

- Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
- When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#AL84)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#AL8A) - 800 GB 3DWPD 12 Gb SAS 2.5 Inch Flash Drive

This feature provides one 12 Gb SAS solid state drive.

- For 2072-2N4: (#AL8A)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#AL8A)
 - Minimum required: 0
 - Maximum allowed: 24 (Initial order maximum: 24)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ALBA) - 12 Gb SAS 4 Port Adapter Cards (Pair)

This feature provides two I/O adapter cards, each with four 12 Gb mini-SAS HD ports. It is used to add 12 Gb SAS con enclosure. Refer to the Technical Description - Host Interface Cables section for cable requirements.

- For 2072-2N2: (#ALBA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all 2.5-inch drive features (AL6x, AL7x, and AL8x)
 - When feature 5555 is present on the order, maximum allowed is 255 per drive feature.

- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ALBA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Only two of the four SAS ports on the SAS expansion enclosure attachment card are used for expansion ports are inactive.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ALBA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Only two of the four SAS ports on the SAS expansion enclosure attachment card are used for expansion ports are inactive.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ALBA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Only two of the four SAS ports on the SAS expansion enclosure attachment card are used for expansion ports are inactive.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ALBB) - 16 Gb FC 4 Port Adapter Cards (Pair)

This feature provides two I/O adapter cards, each with four 16 Gb FC ports and shortwave SFP transceivers. It is used FlashSystem control enclosure. Refer to the Technical description - Host Interface Cables section for cable requirements.

- For 2072-2N2: (#ALBB)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Field only.
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ALBB)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)

- Customer setup: Yes
- Plant / Field installable: Field only.
- Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ALBB)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Field only.
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ALBB)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Field only.
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ALBD) - 10 Gb Ethernet 4 Port Adapter Cards (Pair)

This feature provides two I/O adapter cards, each with four 10 Gb Ethernet ports and SFP+ transceivers. It is used to a FlashSystem control enclosure.

- For 2072-2N2: (#ALBD)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ALBD)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.

- When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ALBD)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ALBD)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ALBE) - 25GbE (RoCE) Adapter Cards (Pair)

This feature provides two I/O adapter cards, each with two 25 Gb Ethernet ports and SFP28 transceivers. It is used to FlashSystem control enclosure and are designed to support RDMA with RoCE 2.

Note: This adapter does not support FCoE connectivity. Refer to the Technical Description - Host Interface Card

- For 2072-2N2: (#ALBE)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ALBE)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ALBE)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both

- Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ALBE)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#ALBF) - 25GbE (iWARP) Adapter Cards (Pair)

This feature provides two I/O adapter cards, each with two 25 Gb Ethernet ports and SFP28 transceivers. It is used to : FlashSystem 5000 control enclosure.

- For 2072-2N2: (#ALBF)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ALBF)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ALBF)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ALBF)
 - Minimum required: 0

- Maximum allowed: 1 (Initial order maximum: 1)
- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - Maximum allowed applies to total quantity of all I/O adapter features.
 - When feature 5555 is present on the order, maximum allowed is 255 per I/O adapter feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features

(#ALBG) - 16 Gb FC 4 Port Adapter Cards (Pair)

This feature provides two I/O adapter cards, each with four 16 Gb FC ports and shortwave SFP transceivers. It is used FlashSystem control enclosure.

This card also supports longwave transceivers that can be intermixed on the card with shortwave transceivers in any configuration ordered using feature ACHU.

Refer to the **Technical Description** section for adapter configuration rules and cable requirements.

- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- Customer Setup: Yes
- Comments:
 - Supported on Models 2N2, 2N4, 3N2, 3N4 only.
 - Maximum allowed applies to total quantity of all I/O adapter card features (ADBD-ADB7) and the SAS Enclosures
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ACWx or ADNR is present on the order, maximum allowed is 255 per feature and requisite features
 - EACM: Set Bulk MES flag to YES for this feature to enable use in Blue Harmony MEB orders.
- Plant / Field install: Both.

(#ALE1) - Encryption Enablement

This feature enables the encryption function. A single instance of this feature enables the function on the entire FlashSystem attached expansion enclosures) and externally virtualized storage subsystems. USB flash drives (feature ALEC) or IBM FlashSystem required for encryption keys management.

Note: This feature is not available in Armenia, Belarus, Kazakhstan, Kyrgyzstan, and Russia.

- For 2072-3N2: (#ALE1)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 or ADNR is present on the order, maximum allowed is 255 per feature. e-config: For Armenia and Russia, do not model, display, or allow user selection of this feature.
- For 2072-3N4: (#ALE1)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 or ADNR is present on the order, maximum allowed is 255 per feature. e-config: For Armenia and Russia, do not model, display, or allow user selection of this feature.

(#ALE7) - FlashCopy Upgrade

This feature enables the FlashCopy upgrade function to increase the quantity of supported FlashCopy targets to 2,040 FlashSystem control enclosure and a single instance of the license covers the entire FlashSystem system (control enclosures).

- For 2072-2N2: (#ALE7)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 or ADNR is present on the order, maximum allowed is 255 per feature and requisite 1
- For 2072-2N4: (#ALE7)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 or ADNR is present on the order, maximum allowed is 255 per feature and requisite 1
- For 2072-3N2: (#ALE7)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 or ADNR is present on the order, maximum allowed is 255 per feature and requisite 1
- For 2072-3N4: (#ALE7)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 or ADNR is present on the order, maximum allowed is 255 per feature and requisite 1

(#ALE8) - Remote Mirroring

This feature enables the remote mirroring function. This feature is required for both the primary and remote machine. T enclosure and a single instance of the license covers the entire system (control enclosure and all attached expansion e deploy a HyperSwap configuration.

- For 2072-2N2: (#ALE8)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 or ADNR is present on the order, maximum allowed is 255 per feature and requisite 1
- For 2072-2N4: (#ALE8)
 - Minimum required: 0

- Maximum allowed: 1 (Initial order maximum: 1)
- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 or ADNR is present on the order, maximum allowed is 255 per feature and requisite 1
- For 2072-3N2: (#ALE8)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 or ADNR is present on the order, maximum allowed is 255 per feature and requisite 1
- For 2072-3N4: (#ALE8)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 or ADNR is present on the order, maximum allowed is 255 per feature and requisite 1

(#ALE9) - Easy Tier

This feature enables the Easy Tier function. This function is licensed to a FlashSystem control enclosure and a single in FlashSystem system (control enclosure and all attached expansion enclosures).

- For 2072-2N2: (#ALE9)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 or ADNR is present on the order, maximum allowed is 255 per feature and requisite 1
- For 2072-2N4: (#ALE9)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 or ADNR is present on the order, maximum allowed is 255 per feature and requisite 1
- For 2072-3N2: (#ALE9)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 or ADNR is present on the order, maximum allowed is 255 per feature and requisite 1
- For 2072-3N4: (#ALE9)

- Minimum required: 0
- Maximum allowed: 1 (Initial order maximum: 1)
- Customer setup: Yes
- Plant / Field installable: Both
- Comments:
 - Not compatible with feature ADN2 on plant install orders.
 - When feature 5555 or ADNR is present on the order, maximum allowed is 255 per feature and requisite 1

(#ALEC) - Encryption USB Flash Drives (Four Pack)

This feature provides four USB flash drives for storing the encryption master access key. Unless IBM Security Key Mar management, a total three USB flash drives are required per FlashSystem cluster when encryption is enabled in the cl in the cluster. If encryption will be used in a cluster, this feature should be ordered on one FlashSystem system, resultir

Note: This feature is not available in the following countries: Armenia, Belarus, Kazakhstan, Kyrgyzstan, and R

- For 2072-3N2: (#ALEC)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALE1 is required.
 - e-config: When feature ALE1 is initially selected, automatically select this feature; however, allow the use deselected by the user, display the following warning message "Three USB flash drives are required per IBM SKLM is used for encryption keys management."
 - For Armenia, Belarus, Kazakhstan, Kyrgyzstan, and Russia, do not model, display, or allow user selectio
- For 2072-3N4: (#ALEC)
 - Minimum required: 0
 - Maximum allowed: 255 (Initial order maximum: 255)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Feature ALE1 is required.
 - e-config: When feature ALE1 is initially selected, automatically select this feature; however, allow the use deselected by the user, display the following warning message "Three USB flash drives are required per IBM SKLM is used for encryption keys management."
 - For Armenia, Belarus, Kazakhstan, Kyrgyzstan, and Russia, do not model, display, or allow user selectio

(#ALGA) - 32 GB Cache Upgrade

This feature provides two 16 GB memory DIMMS, (one for each node canister). This feature will increase the total syst

- For 2072-2N2: (#ALGA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADNR is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-2N4: (#ALGA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both

- Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N2: (#ALGA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features
- For 2072-3N4: (#ALGA)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments:
 - Not compatible with feature ADN2 on the initial machine order.
 - When feature 5555 is present on the order, maximum allowed is 255 per feature.
 - When feature ADN2 is present on the order, maximum allowed is 255 per feature and requisite features

(#B0MT) - ServicePac Warranty and Maintenance Option 5 YR 24x7 Same Day rCL/4hrPD

This feature indicates a priced ServicePac (machine type 666x) is included on the order. It is for administrative purpose

- For 2072-2N2: (#B0MT)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-2N4: (#B0MT)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-3N2: (#B0MT)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-3N4: (#B0MT)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor

(#B0NQ) - ServicePac for Hard Drive or Media Retention for Storage 3 years

This feature indicates a priced ServicePac (machine type 666x) is included on the order. It is for administrative purpose

- For 2072-2N2: (#B0NQ)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-2N4: (#B0NQ)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-3N2: (#B0NQ)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-3N4: (#B0NQ)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor

(#B0PC) - ServicePac Warranty Service Upgrade 3 YR 24x7 Same Day ORT 6hrCL/4hrPD

This feature indicates a priced ServicePac (machine type 666x) is included on the order. It is for administrative purpose

- For 2072-2N2: (#B0PC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-2N4: (#B0PC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-3N2: (#B0PC)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-3N4: (#B0PC)
 - Minimum required: 0

- Maximum allowed: 1 (Initial order maximum: 1)
- Customer setup: Yes
- Plant / Field installable: Both
- Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor

(#B0PF) - ServicePac for Hard Drive or Media Retention for Storage 5 years

This feature indicates a priced ServicePac (machine type 666x) is included on the order. It is for administrative purpose

- For 2072-2N2: (#B0PF)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-2N4: (#B0PF)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-3N2: (#B0PF)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-3N4: (#B0PF)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor

(#B0SK) - ServicePac Machine Setup Support for Storage

This feature indicates a priced ServicePac (machine type 666x) is included on the order. It is for administrative purpose

- For 2072-2N2: (#B0SK)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-2N4: (#B0SK)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-3N2: (#B0SK)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)

- Customer setup: Yes
- Plant / Field installable: Both
- Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-3N4: (#B0SK)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor

(#B0YH) - ServicePac Warranty Service Upgrade 3 YR 24x7 Committed Fix 24h

This feature indicates a ServicePac was not selected for the machine. It is for administrative purposes only.

- For 2072-2N2: (#B0YH)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-2N4: (#B0YH)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-3N2: (#B0YH)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-3N4: (#B0YH)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor

(#B17H) - ServicePac Warranty and Maintenance Option 5 YR 24x7 Committed Fix 24h

This feature indicates a ServicePac was not selected for the machine. It is for administrative purposes only.

- For 2072-2N2: (#B17H)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-2N4: (#B17H)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes

- Plant / Field installable: Both
- Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-3N2: (#B17H)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor
- For 2072-3N4: (#B17H)
 - Minimum required: 0
 - Maximum allowed: 1 (Initial order maximum: 1)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: This feature is available in Only select countries. Contact IBM Global Services for additional infor

(#SVBP) - BP Post-Sale Services: 1 Day

BP Post-Sale Services: 1 Day

- For 2072-2N2: (#SVBP)
 - Minimum required: 0
 - Maximum allowed: 250 (Initial order maximum: 250)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Password protect this feature
- For 2072-2N4: (#SVBP)
 - Minimum required: 0
 - Maximum allowed: 250 (Initial order maximum: 250)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Password protect this feature
- For 2072-3N2: (#SVBP)
 - Minimum required: 0
 - Maximum allowed: 250 (Initial order maximum: 250)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Password protect this feature
- For 2072-3N4: (#SVBP)
 - Minimum required: 0
 - Maximum allowed: 250 (Initial order maximum: 250)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Password protect this feature

(#SVCS) - IBM Systems Lab Services Post-Sale Services: 1 Day

IBM Systems Lab Services Post-Sale Services: 1 Day

- For 2072-2N2: (#SVCS)
 - Minimum required: 0
 - Maximum allowed: 250 (Initial order maximum: 250)
 - Customer setup: Yes
 - Plant / Field installable: Both

- Comments: e-config: Password protect this feature
- For 2072-2N4: (#SVCS)
 - Minimum required: 0
 - Maximum allowed: 250 (Initial order maximum: 250)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Password protect this feature
- For 2072-3N2: (#SVCS)
 - Minimum required: 0
 - Maximum allowed: 250 (Initial order maximum: 250)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Password protect this feature
- For 2072-3N4: (#SVCS)
 - Minimum required: 0
 - Maximum allowed: 250 (Initial order maximum: 250)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Password protect this feature

(#SVNN) - Other IBM Post-Sale Services: 1 Day

Other IBM Post-Sale Services: 1 Day

- For 2072-2N2: (#SVNN)
 - Minimum required: 0
 - Maximum allowed: 250 (Initial order maximum: 250)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Password protect this feature
- For 2072-2N4: (#SVNN)
 - Minimum required: 0
 - Maximum allowed: 250 (Initial order maximum: 250)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Password protect this feature
- For 2072-3N2: (#SVNN)
 - Minimum required: 0
 - Maximum allowed: 250 (Initial order maximum: 250)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Password protect this feature
- For 2072-3N4: (#SVNN)
 - Minimum required: 0
 - Maximum allowed: 250 (Initial order maximum: 250)
 - Customer setup: Yes
 - Plant / Field installable: Both
 - Comments: e-config: Password protect this feature

Accessories

None.

Customer replacement parts

None.

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Supplies

None.

Supplemental media

None.

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