

CERTIFICADO DE CONFORMIDADE

CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 15.0534**

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Certificado de conformidade válido somente acompanhado das páginas de 1 até 17
Certificate of conformity valid with pages from 1 to 17

Fornecedor / Supplier **DELL COMPUTADORES DO BRASIL LTDA**
(100120-728) Av. Emancipação, 5000
13184-654 – Hortolândia – SP – Brasil

Produto Certificado / Certified Product **COMPUTADOR DE MESA / DESKTOP COMPUTER**

Família de produto / Product's Family **N/A**

Modelo - Tipo / Model - Type **Modelo(s)/Model(s): D11S**

Tipo(s)/Type(s): D11S...

(The dots "." in model name can be 0 to 9, A to Z or blank for marketing purpose only)

Descrição (Nome comercial) / Description (Brand Name) **DELL**

Marca comercial / Trademark **DELL**

Normas aplicáveis / Applicable standards **IEC 60950-1:2005 (2nd Edition); Am 1:2009; Am 2:2013, CISPR 22: 2008, CISPR 24: 2010+A1:2015, IEC 61000-3-2:2014, IEC 61000-3-3: 2008, IEC 61000-4-2: 2008, IEC 61000-4-3:2006+A1: 2007+A2: 2010, IEC 61000-4-4: 2004 +A1:2010, IEC 61000-4-5: 2014, IEC 61000-4-6:2013, IEC 61000-4-8: 2009, IEC 61000-4-11: 2004; e Anexo E da Portaria no. 170/2012**

Programa de certificação ou Portaria / Certification Program or Decree **PORTARIA NO. 170/2012 / DECREE NO. 170/2012**
PORTARIA NO. 407/2015 / DECREE NO. 407/2015

Relatório de Avaliação e Ensaios / Assessment and Test Report # **BR2263, Vol. 1, Sec. 70**

Concessão Para / Consession for **Ostentar o Selo de Identificação da Conformidade do Sistema Brasileiro de Avaliação da Conformidade (SBAC) sobre o(s) produto(s) relacionado(s) neste certificado.**
Bearing the Conformity Identification Seal of the Brazilian System of Evaluation of Conformity (SBAC) on the product covered by this certificate.

Emissão / Date of issue **22 de julho de 2015 / July 22, 2015**
Revisão / Revision date **02 de Agosto de 2017 / August 2, 2017**
Validade / Expire date **21 de julho de 2018 / July 21, 2018**

Emerson Luiz Baroni
Gerente de Certificações /
Certification Manager

UL do Brasil Certificações, organismo acreditado pela Coordenação Geral de Acreditação do INMETRO – CGCRE, segundo o registro No.: OCP-0029 confirma que o produto está em conformidade com a(s) Norma(s) e programas ou Portarias acima descritas.
UL do Brasil Certificações, Certification Body accredited by Coordenação Geral de Acreditação do INMETRO - CGCRE according to the register No.: OCP-0029 confirms that the product is in compliance with the standards and certification Program or Decree above mentioned.



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Solicitante / Applicant
(654965-006)

Dell Inc.
One Dell Way
Mail Stop PS4-30
Round Rock, TX 78682

Fabricante / Manufacture
(100120-728)

DELL COMPUTADORES DO BRASIL LTDA
AV. EMANCIPAÇÃO, 5000
13184-654 – HORTOLÂNDIA – SP – BRASIL

MARCAÇÃO / MARKING: Marca do fabricante, modelo e características elétricas.

CARACTERÍSTICAS NOMINAIS / RATINGS:
3.0A, 100-240Vac, 50/60Hz, Class I; IP20

LISTA DE ACESSÓRIOS / LIST OF ACCESSORIES: N/A

MODELO DE CERTIFICAÇÃO / CERTIFICATION MODEL: 5

VERSÃO DO PROJETO DO PRODUTO / PRODUCT DESIGN VERSION: N/A

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LISTA DE COMPONENTES CRÍTICOS / LIST OF CRITICAL COMPONENTS:

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/Technical data	Norma/Standard	Marca de conformidade/Mark(s) of conformity
Front bezel (decorate parts)	Interchangeable	Interchangeable	HB min.	UL 94	UL
Enclosure	Interchangeable	Interchangeable	Metal, min. 0.6mm thickness	--	Tested in the equip.
Rubber stand	Interchangeable	Interchangeable	HB min.	UL94	UL
Internal plastic	Interchangeable	Interchangeable	V-2 min. or HF-2 min.	UL 94	UL
Power supply for building-in (PSU)	Acbel (DELL)	AC180AS-00, AC180ES-00	I/P: 3.0A, 100- 240Vac, 50-60Hz Cl.I. DC outputs: 12.0A +12.0VA, 14.0A +12.0VB, 2.5A +12.0VSB Total power 180W max.	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Bestec (DELL)	B180AS-00	I/P: 3.0A, 100- 240Vac, 50-60Hz Cl.I. DC outputs: 12A +12VA, 14A +12VB, 2.5A +12VSB TOTAL 180W MAX	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Chicony (DELL)	H180AS-00	I/P: 3A, 100- 240Vac, 50-60Hz Cl.I. DC outputs: 12A +12VADC, 14A +12VBDC, 2.5A +12VSB Max. output power is 180W	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Delta (DELL)	D180ES-00	I/P: 3.0A, 100- 240Vac, 50-60Hz Cl.I. DC outputs: +12VA/12A, +12VB/14A, +12VSB/2.5A OUTPUT MAX POWER 180W	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Delta (DELL)	D180EPS-00	I/P: 3.0A, 100- 240Vac, 50-60Hz Cl.I. DC outputs: +12VA/12A, +12VB/14A, +12VSB/2.5A OUTPUT MAX POWER 180W	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL

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Alt. Power supply for building-in (PSU)	Delta (DELL)	D240EPM-00	I/P: 4.0A, 100- 240Vac, 50-60Hz C.I.I. DC outputs: +12VA/16.5A, +12VB/16A, +12VSB/2.5A OUTPUT MAX POWER 240W	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Flextronics (DELL)	F180ES-00	I/P: 3A, 100- 240Vac, 50-60Hz C.I.I. DC outputs: +12VA, 12A; +12VB, 14A; +12VSB, 2.5A Max output power is 180W	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Flextronics (DELL)	F180EPS-00	I/P: 3A, 100- 240Vac, 50-60Hz C.I.I. DC outputs: +12VA 12A, +12VB 14A, +12VSB 2.5A OUTPUT MAX POWER 180W	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Flextronics (DELL)	F240EPM-00	I/P: 4A, 100- 240Vac, 50-60Hz C.I.I. DC outputs: +12VA, 16.5A, +12VB, 16A, +12VSB, 2.5A OUTPUT MAX POWER 240W	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Lite-on (DELL)	L180ES-00, L180AS-00, L180EPS-00	I/P: 3A, 100- 240Vac, 50-60Hz C.I.I. DC outputs: 12A max. +12VA, 14A max. +12VB, 2.5A max. +12VSB. Max. continuous total DC output power shall not exceed 180W	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Lite-on (DELL)	L240EPM-00	I/P: 4A, 100- 240Vac, 50-60Hz C.I.I. DC outputs: 16.5A MAX +12VA, 16A MAX +12VB, 2.5A MAX +12VSB. Maximum continuous total DC output power shall not exceed 240W	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Shenzhen Huntkey (DELL)	HU180AS-00	I/P: 3A, 100- 240Vac, 50-60Hz C.I.I. DC outputs: +12VAdc 12A, +12VBdc 14A, +12VSBdc 2.5A Max. output power: 180W	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL

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Alt. Power supply for building-in (PSU)	Shenzhen Huntkey (DELL)	HU180ES-00	I/P: 3A, 100-240Vac, 50-60Hz Cl.I. DC outputs: +12VAdc 12A, +12VBdc 14A, +12VSBdc 2.5A Max. output power: 180W	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Acbel (DELL)	AC180AS-01, AC180ES-01	I/P: 3.0A, 100-240Vac, 50-60Hz Cl.I. DC outputs: 12.0A +12.0VA, 14.0A +12.0VB TOTAL POWER 180W MAX. 0.5A +12.0VA, 2.5A +12.0VB MAX. 2.5A for STANDBY MODE.	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Bestec (DELL)	B180AS-02	I/P: 3.0A, 100-240Vac, 50-60Hz Cl.I. DC outputs: +12VA/ 12A, +12VB/ 14A,STANDBY MODE +12VA/ 0.5A, +12VB/ 2.5A, STANDBY MODE +12VA & +12VB MAX. 2.5A TOTAL 180W MAX.	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Chicony (DELL)	H180AS-02, H180ES-00	I/P: 3A, 100-240Vac, 50-60Hz Cl.I. DC outputs: 12A +12VA, 14A +12VB Max. output power is 180W or Standby mode: 0.5A +12VA, 2.5A +12VB. +12VA & +12VB shall not exceed 2.5A.	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Delta (DELL)	D180ES-01, D180EPS-01	I/P: 3.0A, 100-240Vac, 50-60Hz Cl.I. DC outputs: +12VA/12A, +12VB/14A, STANDBY MODE +12VA/ 0.5A, +12VB/ 2.5A, MAX COMBINED +12VA AND +12VB CURRENT IS 2.5A, MAX OUTPUT POWER 180W.	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Lite-on (DELL)	L180EPS-01; L180ES-01; L180AS-02	I/P: 3A, 100-240Vac, 50-60Hz Cl.I. DC outputs: 12A MAX +12VA, 14A MAX +12VB Standby mode: 0.5A +12VA, 2.5A +12VB, Max. total output current 2.5A Maximum continuous total DC output power shall not exceed 180W.	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL
Alt. Power supply for building-in (PSU)	Shenzhen Huntkey (DELL)	HU180AS-01, HU180ES-01	I/P: 3A, 100-240Vac, 50-60Hz Cl.I. DC outputs: +12VAd.c. 12A, +12VBd.c. 14A, Max. output power 180W. Standby Mode: +12V/0.5A; +12VB/2.5A; +12VA & +12VB, total load 2.5A max.	IEC 60950-1 ed.2; am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1 (ed.2)	CB by Nemko, N, UL

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HDD / SSD (Optional)	Hitachi Global Storage Lite-On LITE-ON	HDS7225nnVLATnn CF1-CPxxxxxxx LMS-xxL6Mxxxxx (x can be any alphanumeric or blank)	Max. 1.5/2.0A, 5/12Vdc 2.0A max. 5Vdc 3.3Vdc, 2.0A max.	EN 60950-1: 2006/A2, UL 60950-1	TUV, UL CB by TUV, UL TUV, UL
Optical Disk Drive (Optional)	Interchangeable	Interchangeable	Max. 1.5/2.0A, 5/12Vdc or 5Vdc or 3.3Vdc, 2.0A max.	EN 60950-1: 2006/A2, UL 60950-1	Verify by Nemko or other cert. body, UL
	Hitachi-LG Data Storage Inc.	DRW-24xyST (The "X" can be A to Z and the "y" can be 0 to 9 and the "z" or blank according to buyer, color or other configurations not related with safety.	5/12Vdc, 2.0/2.5A max. Laser class 1	EN 60950-1: 2006/A2, EN 60825-1, UL 60950-1	TUV, UL
	Hitachi-LG Data Storage Inc.	GUCxy (x can be any number 0 to 9 and y can be any alphanumeric denoting non safety related)	5Vdc, 1.5A max. Laser class 1	EN 60950-1: 2006/A2, EN 60825-1, UL 60950-1	TUV, UL
	Interchangeable	Interchangeable	Max. 5/12Vdc, 2.0/2.5A or Max. 5Vdc, 1.5A, Laser class 1	EN 60950-1: 2006/A2, EN 60825-1, UL 60950-1	Verify by Nemko or other cert. body, UL
- Front bezel for each sources	Interchangeable	Interchangeable	Min. V-1.	UL 94	UL
CPU Fan	AVC 1)	DS08025R12UV (V= ABCD where A, B, C, D may be A-Z, 0-9, or "-")	12Vdc, max. 0.7 A, 53.82 CFM min.	EN 60950-1: 2006/A2, UL507	TUV, UL
	Delta 1)	QUR0812SH	12Vdc, max. 0.5 A, 52.83 CFM min.	EN 60950-1: 2006/A2, UL507	VDE, UL
	Foxconn 1)	PVA080G12Q	12Vdc, max. 0.65 A, 59 CFM min.	EN 60950-1: 2006/A2, UL507	TUV, UL

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	Sunonwealth 1)	MF80251V2-QZ (Z stands for 15 Characters. Each Character stands for one of the following signs: 0-9, A-Z, (,), ., /, - or blank.)	12Vdc, max. 0.3A, 48 CFM min.	EN 60950-1: 2006/A2, UL507	TUV, UL
	Shenzhen Dongweifeng 1)	EFH-08E12WY (Y=Blank or - WWWW, W can be 0 to 9 or A to Z)	12Vdc, max. 0.7 A, 53.45 CFM min.	EN 60950-1: 2006/A2, UL507	TUV, UL
	Interchangeable 1)	Interchangeable	12Vdc, max. 0.7 A, 48 CFM min.	EN 60950-1: 2006/A2, UL507	Verify by Nemko or other cert. body, UL
	Delta 2)	AUB0712VH	12Vdc, max. 0.56 A, 43.68 CFM min	EN 60950-1: 2006/A2, UL507	VDE, UL
	Foxconn 2)	PVA070G12Q	12Vdc, max. 0.5 A, 42 CFM min.	EN 60950-1: 2006/A2, UL507	TUV, UL
	Interchangeable 2)	Interchangeable	12Vdc, max. 0.56 A, 42 CFM min.	EN 60950-1: 2006/A2, UL507	Verify by Nemko or other cert. body, UL
Atl. CPU Fan	AVC 3)	BAZB0925R2U V (V can be ABCD where A, B, C, D may be A-Z, 0-9 or -)	12Vdc, max. 1.0 A, 22 CFM min.	EN 60950-1: 2006/A2: 2013 UL 507	TUV, UL
	Delta 3)	BUC1012SJ-00XXXXXX (X stands for A-Z, 0-9, - or blank for marketing purpose only)	12Vdc, max. 1.2 A, 23.25 CFM min.	EN 60950-1: 2006/A2: 2013 UL 507	VDE, UL
	Shenzhen Dongweifeng 3)	EFH-08E12WY (Y=Blank or - WWWW, W can be 0 to 9 or A to Z)	12Vdc, max. 0.7 A, 20.7 CFM min.	EN 60950-1: 2006/A2: 2013 UL 507	TUV, UL
	Foxconn 3)	PVB120G12H-P01	12Vdc, max. 0.75 A, 20.47 CFM min.	EN 60950-1: 2006/A2: 2013 UL 507	TUV, UL

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	Sunonwealth 3)	MF80251V2- Q0Z (Z stands for 30 Characters. Each Character stands for one of the following signs: 0-9, A-Z, (,), ., /, - or blank for marketing purpose only.)	12Vdc, max. 0.55 A, 20.7 CFM min.	EN 60950-1: 2006/A2: 2013 UL 507	TUV, UL
	Inter-changeable 3)	Inter-changeable	12Vdc, max. 1.2 A, 20.47 CFM min.	EN 60950-1: 2006/A2: 2013 UL 507	Verify by Nemko or other cert. body, UL
Front system Fan (optional)	AVC	DASA0820R2UV (V= ABCD where A, B, C, D may be A-Z, 0-9 or "-")	12Vdc, max. 0.6 A, 48.02 CFM min.	EN 60950-1: 2006/A2, UL507	TUV, UL
Alt. Front system Fan (optional)	Delta	AUB0812HHD	12Vdc, max. 0.4 A, 46.31 CFM min.	EN 60950-1: 2006/A2, UL507	VDE, UL
	Foxconn	PVA080F12R	12Vdc, max. 0.36 A, 40 CFM min.	EN 60950-1: 2006/A2, UL507	TUV, UL
Alt. Front system Fan (optional)	Sunonwealth	MF80201VX-QZ (Z stands for 15 Characters. Each character stands for one of the following signs): 0-9, A-Z, (,), ., /, - or blank.)	12Vdc, max. 0.219A, 40.8 CFM min.	EN 60950-1: 2006/A2, UL507	TUV, UL
	Interchangeable	Interchangeable	12Vdc, max. 0.6 A, 40 CFM min.	EN 60950-1: 2006/A2, UL507	Certified by Nemko or other cert. body, UL
PCB	Interchangeable	Interchangeable	V-1 min., 105°C min.	UL 796	UL

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Cord Set	Interchangeable	Interchangeable	--	--	The equipment shall be provided with an approved mains cord set complying with the national regulations of the countries in which the appliance is to be sold.
Following components used on motherboard					
RTC Battery (Lithium type)	Mitsubishi Panasonic	CR2032 CR2032*, CR-2032* (* - Cell model numbers may be followed by an optional slash (/) and single or multiple alphanumeric characters (i.e. letters and/or numbers), which denote optional features such as various mounting tabs, connecting leads or plugs, packaging, etc.)	3Vdc, maximum abnormal charging current 10mA	UL 1642	UL(MH21249) UL(MH12210)

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Alt. RTC Battery (Lithium type)	Shun Wo Jhih Hong (JHT)	CR2032* (* - Cell model numbers may be followed by an optional slash (/) and single or multiple alphanumeric characters (i.e. letters and/or numbers), which denote optional features such as various mounting tabs, connecting leads or plugs, packaging etc.) CR2032	3Vdc, maximum abnormal charging current 10mA	UL 1642	UL(MH25881) UL(MH48406)
For MB1, MB2 and MB3					
PTC Polyswitch (FU5) provided for USB ports 4)	Polytronics Technology Corp.	SPR-P200T	6Vdc, 2.0A	EN 60730-1, UL 1434	TUV, UL
Atl. PTC Polyswitch (FU5) provided for USB ports 4)	Littelfuse Inc.	0805L200, 0805L200X4X5, 0805L200SLX4X5, 0805L200THX4X5 (X4 stands for A to Z or blank; X5 stands for HF or blank), 0805L200YYZZZ Z (Y and Z stands for A to Z, 0 to 9 or blank), 0805L200ULTH XXXXXXXX (X and Y stands for A to Z, 0 to 9 or blank)	6Vdc, 2.0A	EN 60730-1, UL 1434	TUV, UL
	Bourns Inc.	MF-PSML200	6Vdc, 2.0A	EN 60730-1, UL 1434	TUV, UL

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PTC Polyswitch (FU2, FU5, FU6, FU9) and (FU3 only for motherboard type MB1 and MB3) provided for USB ports 4)	Polytronics Technology Corp	SMD0805P300SL RT	6Vdc, 3A	EN 60730-1, UL 1434	TUV, UL
	Littelfuse Inc	0805L300SLXXYY YYY (X and Y stand for A to Z, 0 to 9 or blank)	6Vdc, 3A	EN 60730-1, UL 1434	TUV, UL
	Bourns, Inc	MF-PSML300	6Vdc, 3A	EN 60730-1, UL 1434	TUV, UL
PTC Polyswitch (FV2) provided for HDMI ports 4)	Polytronics Technology Corp	SPR-P150	6Vdc, 1.5A	EN 60730-1, UL 1434	TUV, UL
	Littelfuse Inc	0805L150SLX4X5 (X4 stands for A to Z or blank; X5 stands for HF or blank), 0805L150SLYYZZ ZZZ (Y and Z stand for A to Z, 0 to 9 or blank) 0805L150SLXXYY YYY (X and Y stand for A to Z, 0 to 9 or blank)	6Vdc, 1.5A	EN 60730-1, UL 1434	TUV, UL
	Bourns, Inc	MF-PSML150	6Vdc, 1.5A	EN 60730-1, UL 1434	TUV, UL
Polyswitch (FV3) and (FV1 only for	Polytronics Technology Corp	SPR-P110	6Vdc, 1.1A	EN 60730-1, UL 1434	TUV, UL

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Motherboard type MB1 and MB3) provided for Display ports, (F2) provided for PS2 ports 4)	Littelfuse Inc	0805L110, 0805L110X4X5, 0805L110SLX4X5, 0805L110THX4X5 (X4 stands for A to Z or blank; X5 stands for HF or blank), 0805L110YYZZZ Z (Y and Z stands for A to Z, 0 to 9 or blank), 0805L110ULXX YYYYY (X and Y stands for A to Z, 0 to 9 or blank)	6Vdc, 1.1A	EN 60730-1, UL 1434	TUV, UL
	Bourns, Inc	MF-PSML110	6Vdc, 1.1A	EN 60730-1, UL 1434	TUV, UL
IC (PU20) provided for USB ports 4	DIODES ANPEC	AP22802AW5-7 APL3511ABI-TRG	Input Voltage: 2.7 - 5.5 Vdc Output: 1 Output Continuous Rating: 2.0 A Output Current Limit: 3.2 A 0.3-2.0A, 2.7-5.5Vdc per output channel Cl.III. SELV	IEC 60950-1: 2005 (2nd Edition); Am 1; Am 2, UL 2367 IEC 60950-1: 2005 (2nd Edition); Am 1; Am 2, UL 2367	CB by Demko, UL CB by Demko, UL
IC (USB_CHARGING for Motherboard type MB1 and MB3) provided for USB ports 4)	PERICOM SILEGO	PI5USB2546ZH EX SLGC55546VTR	Input Voltage: 4.5 - 5.5 Vdc, Continuous Rating: 30 mA to 2.5 A, Current Limit: 100 mA to 3.18 A Input Voltage: 4.5 Vdc to 5.5 Vdc Output Continuous Rating: 0.2 A to 2.5 A Output Current Limit 0.3 A to 3.17 A	IEC 60950-1: 2005 (2nd Edition); Am 1; Am 2, UL 2367 IEC 60950-1: 2005 (2nd Edition); Am 1; Am 2, UL 2367	CB by Demko, UL CB by Demko, UL

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	Nuvoton	NCT3955Y	Input Voltage: 4.5 – 5.5 Vdc, Input current: 2.5A	IEC 60950-1: 2005 (2nd Edition); Am 1; Am 2, UL 2367	CB by TUV/PS, UL
For MB4					
PTC Polyswitch (FV2) provided for HDMI ports 4)	Polytronics Technology Corp	SPR-P150	6Vdc, 1.5A	EN 60730-1, UL 1434	TUV, UL
	Littelfuse Inc	0805L150ULXX YYYYY (X and Y stands for A to Z, 0 to 9 or blank)	6Vdc, 1.5A	EN 60730-1, UL 1434	TUV, UL
	Bourns, Inc	MF-PSML150	6Vdc, 1.5A	EN 60730-1, UL 1434	TUV, UL
Polyswitch (FV3) and (FV1) provided for Display ports, (F2) provided for PS2 ports 4)	Polytronics Technology Corp	SPR-P110	6Vdc, 1.1A	EN 60730-1, UL 1434	TUV, UL
	Littelfuse Inc	0805L110ULXX YYYYY (X and Y stands for A to Z, 0 to 9 or blank)	6Vdc, 1.1A	EN 60730-1, UL 1434	TUV, UL
	Bourns, Inc	MF-PSML110	6Vdc, 1.1A	EN 60730-1, UL 1434	TUV, UL
Protective IC (UL1, U149, U153, U151), (U150, U152) provided for USB ports	DIODES	AP22811AW5-7	Input Voltage: 2.7-5.5Vdc Output: 1 Output Continuous Rating: 2.0 A Output Current Limit: 3.2 A Operating Temperature : -40°C~ + 85°C	IEC 60950-1 (ed.2): am2	CB by Demko, UL
	RICHTEK	RT9742CGJ5F	2.7V to 6V, 3A/2A/1.5A/1A, 70mohm/55mohm (typ.) N-MOSFET Switch	IEC 60950-1 (ed.2): am1; am2	CB by Demko, UL
Protective IC (U137) provided for USB Type-C ports	DIODES	AP22814ASN-7	Input Voltage: 2.7-5.5Vdc Output: 1 Output Continuous Rating: 3.0 A Output Current Limit: 3.8 A Operating Temperature : -40°C~ + 85°C	IEC 60950-1: (ed.2); am1; am2	CB by Demko, UL
Protective IC (USB_CHARGING) provided for USB port	PERICOM	PI5USB2546ZH EX	Input Voltage: 4.5 -5.5 Vdc, Continuous Rating: 30 mA to 2.5 A, Current Limit: 100 mA to 3.18 A	IEC 60950-1: (ed.2); am1; am2	CB by Demko, UL
Atl. Protective IC (USB_CHARGING)	TEXAS INSTRUMENTS INC	TPS2546RTER	Input Voltage = 4.5 Vdc to 5.5 Vdc Output Continuous Rating: 2.5A Output Current Limit: 3.1A	IEC 60950-1: (ed.2); am1; am2	CB by Demko, UL

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ING) provided for USB port	SILEGO Nuvoton	SLGC55546VTR NCT3955Y	Input Voltage: 4.5 Vdc to 5.5 Vdc Output Continuous Rating: 0.2 A to 2.5 A Output Current Limit: 0.3 A to 3.17A Input Voltage: 4.5 -5.5 Vdc, Input current: 2.5A	IEC 60950-1: (ed.2); am1; am2 IEC 60950-1: (ed.2); am1; am2	CB by Demko, UL CB by SUD, UL
For MB5					
PTC Polyswitch (FV2) provided for HDMI ports 4)	Polytronics Technology Corp Littelfuse Inc	SPR-P150 0805L150ULXX YYYYY (X and Y stands for A to Z, 0 to 9 or blank)	6Vdc, 1.5A 6Vdc, 1.5A	EN 60730-1, UL 1434 EN 60730-1, UL 1434	TUV, UL TUV, UL
	Bourns, Inc	MF-PSML150	6Vdc, 1.5A	EN 60730-1, UL 1434	TUV, UL
Polyswitch (FV3) and (FV1) provided for Display ports, (F2) provided for PS2 ports 4)	Polytronics Technology Corp Littelfuse Inc	SPR-P110 0805L110ULXX YYYYY (X and Y stands for A to Z, 0 to 9 or blank)	6Vdc, 1.1A 6Vdc, 1.1A	EN 60730-1, UL 1434 EN 60730-1, UL 1434	TUV, UL TUV, UL
	Bourns, Inc	MF-PSML110	6Vdc, 1.1A	EN 60730-1, UL 1434	TUV, UL
Protective IC (UL1, U149, U148, U153, U151, U150) provided for USB ports	DIODES RICHTEK	AP22811AW5-7 RT9742CGJ5F	Input Voltage: 2.7-5.5Vdc Output: 1 Output Continuous Rating: 2.0 A Output Current Limit: 3.2 A Operating Temperature : -40°C~ + 85°C 2.7V to 6V , 3A/2A/1.5A/1A, 70mohm/55mohm (typ.) N-MOSFET Switch	IEC 60950-1 (ed.2): am2 IEC 60950-1 (ed.2);am1; am2	CB by Demko, UL CB by Demko, UL
Protective IC (USB_CHARG ING) provided for USB port	PERICOM TEXAS INSTRUMEN TS INC SILEGO Nuvoton	PI5USB2546ZH EX TPS2546RTER SLGC55546VTR NCT3955Y	Input Voltage: 4.5 - 5.5 Vdc, Continuous Rating: 30 mA to 2.5 A, Current Limit: 100 mA to 3.18 A Input Voltage = 4.5 Vdc to 5.5 Vdc Output Continuous Rating: 2.5A Output Current Limit: 3.1A Input Voltage: 4.5 Vdc to 5.5 Vdc Output Continuous Rating: 0.2 A to 2.5A Output Current Limit: 0.3 A to 3.17 A Input Voltage: 4.5 -5.5 Vdc, Input current: 2.5A	IEC 60950-1: (ed.2); am1; am2 IEC 60950-1: (ed.2); am1; am2 IEC 60950-1: (ed.2); am1; am2 IEC 60950-1: (ed.2); am1; am2	CB by Demko, UL CB by Demko, UL CB by Demko, UL CB by Demko, UL
For MB6					

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PTC Polyswitch (FV2) provided for HDMI ports 4)	Polytronics Technology Corp Littelfuse Inc	SPR-P150	6Vdc, 1.5A	EN 60730-1, UL 1434	TUV, UL
		0805L150ULXX YYYYY (X and Y stands for A to Z, 0 to 9 or blank)	6Vdc, 1.5A	EN 60730-1, UL 1434	TUV, UL
	Bourns, Inc	MF-PSML150	6Vdc, 1.5A	EN 60730-1, UL 1434	TUV, UL
Polyswitch (FV3) provided for Display ports 4)	Polytronics Technology Corp Littelfuse Inc	SPR-P110	6Vdc, 1.1A	EN 60730-1, UL 1434	TUV, UL
		0805L110ULXX YYYYY (X and Y stands for A to Z, 0 to 9 or blank)	6Vdc, 1.1A	EN 60730-1, UL 1434	TUV, UL
	Bourns, Inc	MF-PSML110	6Vdc, 1.1A	EN 60730-1, UL 1434	TUV, UL
Protective IC (UL1, U149, U151, U153, U148) provided for USB ports	DIODES RICHTEK	AP22811AW5-7 RT9742CGJ5F	Input Voltage: 2.7-5.5Vdc Output: 1 Output Continuous Rating: 2.0 A Output Current Limit: 3.2 A Operating Temperature : -40°C ~ + 85°C 2.7V to 6V, 3A/2A/1.5A/1A, 70mohm/55mohm (typ.) N-MOSFET Switch	IEC 60950-1 (ed.2): am2 IEC 60950-1 (ed.2): am1; am2	CB by Demko, UL CB by Demko, UL
Supplementary information: 1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.					
1) The CPU fan with CPU heatsink A. 2) The CPU fan with CPU heatsink B. 3) The CPU fan with CPU heatsink C. 4) LPS protector.					

VERSÃO DO PROJETO DO PRODUTO / PRODUCT DESIGN VERSION: N/A

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DOCUMENTOS / DOCUMENTS:

Título / Title	Número / Number	Revisão / Revision	Data emissão / Issuing Date	Data de Realização / Performance Date
<<Dados da Auditoria / Audit data >> (Fornecedor & Fabricante / Supplier & Manufacture) Factory: DELL COMPUTADORES DO BRASIL LTDA	BR2263	0	2016-03-02	N/A
Relatório de ensaio emitido por / Test report issued by <i>Nemko Taiwan</i>	285383	0	2015-05-12	N/A
Relatório de ensaio emitido por / Test report issued by <i>Nemko Taiwan</i>	305346	0	2016-03-17	N/A
Relatório de ensaio emitido por / Test report issued by <i>Nemko Taiwan</i>	317002	0	2016-10-06	N/A
Relatório de ensaio emitido por / Test report issued by <i>International Standards Laboratory</i>	ISL-15LE172CE	0	2015-06-02	N/A
Relatório de ensaio emitido por / Test report issued by <i>International Standards Laboratory</i>	ISL-15LE172FB	0	2015-06-02	N/A
Relatório de ensaio emitido por / Test report issued by <i>International Standards Laboratory</i>	ISL-16LE446CE	0	2016-10-11	N/A
Relatório de ensaio emitido por / Test report issued by <i>International Standards Laboratory</i>	ISL-16LE446FB	0	2016-10-11	N/A
Relatório de ensaio emitido por / Test report issued by <i>International Standards Laboratory</i>	ISL-15LS011OS	0	2015-07-06	N/A
Relatório de ensaio emitido por / Test report issued by <i>International Standards Laboratory</i>	ISL-16LS033OS	0	2016-10-28	N/A
<<Software / Software>>	N/A			
<<Manual do usuário / User's manual>>	N/A			

OBSERVAÇÕES / OBSERVATIONS:

- A validade deste Certificado está condicionada à realização das avaliações de manutenção e tratamento de possíveis não conformidades de acordo com as orientações da UL do Brasil Certificações e previstas nos procedimentos específicos.**
The validation of this certificate depends on the surveillance inspections performing and Non conformity treatments, according to UL do Brasil Certificações procedures.
- Este certificado aplica-se aos equipamentos (produtos) idênticos ao protótipo avaliado e certificado, manufaturados na(s) unidade (s) fabril (is) mencionada (S) acima.**
This certificate applies to the products that are identical to the prototype investigated, certified and manufactured at the production site mentioned in this certificate
- Qualquer alteração no produto, incluindo a marcação, invalidará o presente certificado, salvo se o solicitante informar por escrito à UL do Brasil Certificações sobre esta modificação, a qual procederá à avaliação e decidirá quanto à continuidade da validade do certificado.**
Any non-authorized changes performed in the product, including marking, will invalidate this certificate. UL do Brasil Certificações must be notified about any desired change. This notification will be analyzed by UL do Brasil Certificações that will decide about certificate force.

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Histórico de Revisões / Revision Description:

02 de Agosto de 2017 / August 2, 2017	Atualização da validade, de acordo com a portaria 407:2015 / <i>Update of validity, according to ordinance 407:2015</i>
01 de dezembro de 2016 / December 1, 2016	<ol style="list-style-type: none">1. Add three alternative main boards (Called MB4, MB5 and MB6).2. Add one alternative heatsink (Called heatsink C).3. Add one alternative front bezel. Add alternative component sources and correct typo.4. Correct motherboard PCB layout difference table due to typo in main report (report/order no. 285383).5. Renew certified information of Flextronic PSU, type F180ES-00 and Shenzhen Huntkey PSU, type HU180AS-00. <ol style="list-style-type: none">1. Adicionar três placas principais alternativas (chamadas MB4, MB5 e MB6).2. Adicione um dissipador de calor alternativo (denominado dissipador de calor C).3. Adicione um painel frontal alternativo. Adicione fontes alternativas de componentes e corrija o erro de digitação.4. Corrigir a tabela de diferenças de layout de PCB da placa-mãe devido ao erro tipográfico no relatório principal (relatório / pedido nº 285383).5. Renovar as informações certificadas da Flextronic PSU, tipo F180ES-00 e Huntkey PSU de Shenzhen, tipo HU180AS-00
22 de julho de 2015 / July 22, 2015	Emissão inicial / <i>Initial Issue</i>
A última revisão substitui e cancela as anteriores <i>The last review cancel and substitutes the previous ones</i>	

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