



# Dell OptiPlex 3030 AIO

## Technical Guidebook

Inside the OptiPlex 3030 AIO

SPECIFIC FEATURES/ MODELS/CONFIGURATIONS/OPTIONS DISCUSSED IN THIS DOCUMENT MAY NOT BE AVAILABLE IN ALL REGIONS

April 2014

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# Overview

## OptiPlex 3030 All-In-One



### ODD Details

**ODD door button**  
Material - molded plastic, black  
Color : Dell standard black  
Texture : MT11020  
Gloss : 5 +/- 3 Gloss level



**ODD LED**  
Material - Molded plastic,  
Color : tinted  
Texture :  
texture inner surface MT11000

### Side connector Flat wall



Material - molded plastic,  
Color : Dell standard black  
Texture : MT11020  
Gloss : 5 +/- 3 Gloss level

### Side buttons

**HDD LED**  
Material - Molded plastic,  
Color : tinted  
Texture :  
texture inner surface MT11000



**Power button + 3 OSD keys**  
Material - molded plastic  
Color : Dell standard black  
Texture : Nihon NH3006  
Gloss : 5 +/- 3 Gloss level  
Power button: Dell Standard Black  
Gloss: 8 - 13 %  
Finish: Satin to match mid-frame

### Inner groove



**Inner Groove**  
Material - molded plastic,  
black  
Color : Dell standard black  
Texture : Nihon NH3006  
Gloss : 5 +/- 3 Gloss level

### Webcam Latch



**Webcam latch**  
Material - molded plastic, black  
Color : Dell standard black  
Texture : Nihon NH3006  
Gloss : 5 +/- 3 Gloss level

### Rear connector recess



**Recess & adjacent wall**  
Material - molded plastic, black  
Color : Dell standard black  
Texture : Nihon NH3006  
Gloss : 5 +/- 3 Gloss level





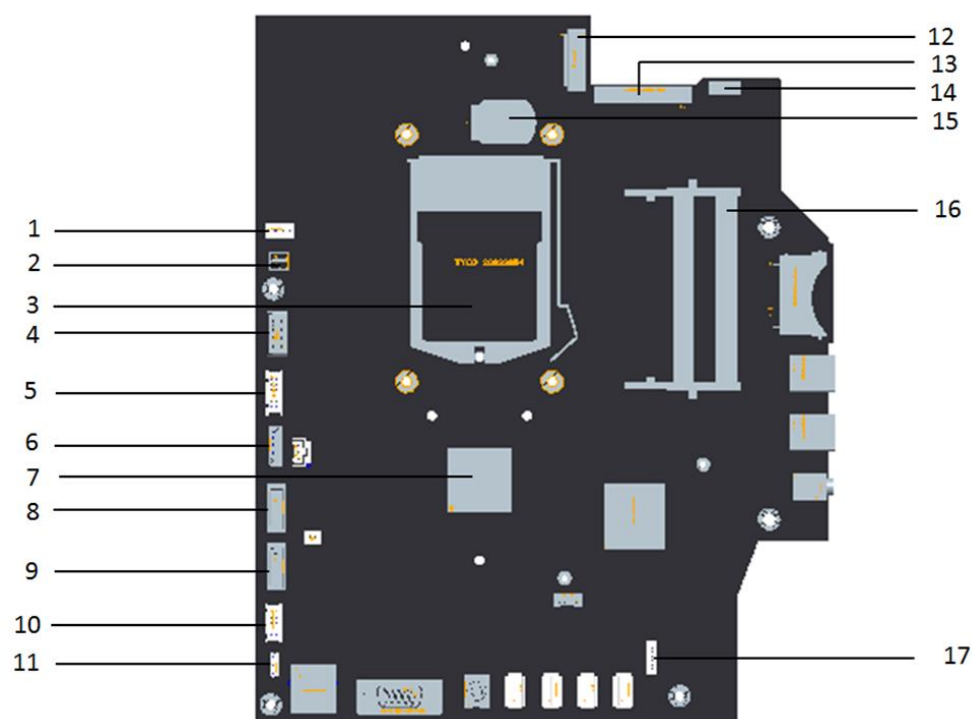
#### Lighting

- All illumination needs to be consistent in color, brightness, and distribution. No hot spots are allowed.
- All LED's are white in color
- Power LED is dual color white/amber
- Lighting specifications will be detailed in future revisions of this document.

1. Camera LED
2. ODD indicator
3. Power Symbol
4. HDD Symbol
5. Power Diagnose LED  
*note: applicable on Tigris*



## Motherboard Layout



Number	Name	Number	Name
1	SYS FAN Connector (FAN)	10	OSD BD Power Connector (PWRCN1)
2	Power Supply Connector (ATX1)	11	Touch Control BD Connector (TOUCH)
3	Processor Socket (CPU)	12	NGFF_WIFI
4	Power Supply Connector (ATX2)	13	LVDS Connector (LVDS)
5	Convertor BD Connector	14	Webcam Connector (WEBCAM)
6	ODD/HDD SATA PWR (SATA_P1)	15	Battery Connector (BATTERY)
7	GPU	16	Memory Connectors (DIMM1, DIMM2)
8	SATA ODD Connector (Black Color)	17	Speaker Connector (SPEAKER)
9	SATA HDD Connector (Blue Color)		

## Marketing System Configurations

NOTE: Offerings may vary by country; not all configurations available in all regions. For more information regarding the configuration of your computer, click Start>Help and Support and select the option to view information about your computer.

### Display

	3030 AIO
Screen Size	19.5"
Resolution	1600x900
High Definition	HD Plus
Display	WLED
Brightness	250 cd/m2

### Operating System

	3030 AIO
Windows operating system	Microsoft® Windows 8.1 Professional (64 bit) to Windows 7 Downgrade Microsoft® Windows 8.1 Professional (64 bit) Microsoft® Windows 8.1 (64bit) Microsoft® Windows 8.1 Single Language (64bit) Microsoft® Windows 7® Professional w/MUI SP1 (32 and 64 bit) Microsoft® Windows 7® Professional SP1 (32 and 64 bit)
Other	Ubuntu 12.04 (64bit)
OS Media Support (optional)	Optional

### Chipset

	3030 AIO
Chipset	Intel H81 Express Chipset
Non-volatile memory on chipset	
BIOS Configuration SPI (Serial Peripheral Interface)	64Mbit (8MB) located at SPI_FLASH on chipset
TPM 1.2 Security Device (Trusted Platform Module) <sup>1</sup>	4KB located at TPM1.2 on chipset



Non-TPM	Available in select countries
NIC EEPROM	LOM configuration contained within SPI_FLASH – no dedicated LOM EEPROM

## Processor

NOTE: Global Standard Products (GSP) are a subset of Dell's relationship products that are managed for availability and synchronized transitions on a worldwide basis. They ensure the same platform is available for purchase globally. This allows customers to reduce the number of configurations managed on a worldwide basis, thereby reducing their costs. They also enable companies to implement global IT standards by locking in specific product configurations worldwide. The following GSP processors identified below will be made available to Dell customers.

NOTE: Processor numbers are not a measure of performance. Processor availability subject to change and may vary by region/country.

	3030 AIO
Intel® Core™ i5-4570S, QC/6MB/4T/2.9GHz, 65W	X
Intel® Core™ i3-4130, DC/3MB/4T/3.40GHz, 54W	X
Pentium® G3220 3.0GHz, 3M, DC/2T, 54W	X
Celeron® G1820 2.70GHz, 2M, DC/2T, 54W	X

	3030 AIO
Intel® Core™ i5-4590S, QC/6MB/4T/3.0GHz, 65W	X
Intel® Core™ i3-4150, DC/3MB/4T/3.50GHz, 54W	X
Pentium® G3240 3.1GHz, 3M, DC/2T, 54W	X
Celeron® G1840 2.80GHz, 2M, DC/2T, 54W	X





## Memory

NOTE: Memory modules should be installed in pairs of matched memory size, speed, and technology. If the memory modules are not installed in matched pairs, the computer will continue to operate, but with a slight reduction in performance. The entire memory range is available to 64-bit operating systems.

	3030 AIO
Type: DDR3 Synch DRAM Non-ECC Memory	
DIMM Slots	2
DIMM Capacities	Up to 8GB
Minimum Memory	4GB
Maximum System Memory	16GB <sup>1</sup>
16GB <sup>1,2</sup> DDR3L, 1600MHz, (2 x 8 GB)	X
8GB <sup>1,2</sup> DDR3L, 1600MHz, (2 x 4GB)	X
4GB <sup>1,2</sup> DDR3L, 1600MHz, (1 x 4GB)	X

<sup>1</sup> The total amount of available memory will be less than 4GB. The amount less depends on the actual system configuration. To fully utilize 4GB or more of memory requires a 64-bit enabled processor and 64-bit operating system.

<sup>2</sup>1600MHz will perform as 1333MHz memory if G3220/ G1820 CPUs are installed in the system.



## Drives and Removable Storage

	3030 AIO
Bays:	
Optical Drives Supported (maximum)	1
Hard Drive Bay Supported (Internal)	1
Interface:	
SATA 2.0 for ODD	1
SATA 3.0 for HDD	1
2.5" Hard Drives:	
500GB <sup>1</sup> SATA3 Secure Encrypted Drive	X
1TB SATA3 Hard Disk Drive	X
128GB <sup>1</sup> SATA3 Solid State Drive	X
500GB1 SATA3 Solid State Hybrid Drive w/8GB Flash	
Optical Drive	
DVD+/-RW <sup>2</sup>	X
DVD-ROM <sup>3</sup>	X
Media Card Reader:	
Dell Media Card Reader	X

<sup>1</sup> For hard drives, GB means 1 billion bytes; actual capacity varies with preloaded material and operating environment and will be less.

<sup>2</sup> Discs burned with this drive may not be compatible with some existing drives and players; using DVD+R media provides maximum compatibility.

<sup>3</sup> DVD-ROM drives may have write-capable hardware that has been disabled via firmware modifications.

## System Board Connectors

	3030 AIO
PCI Slot(s) <sup>1</sup>	N/A
PCIe x16 Slot(s) <sup>2</sup>	N/A
M.2. Slot(s) <sup>3</sup>	1
Serial ATA (SATA) <sup>4</sup>	2

<sup>1</sup> PCI Slots (Support Standard Rev 2.3)



<sup>2</sup> PCIe x16 Slots (Support Standard Rev 3.0)

<sup>3</sup> Socket 1 Type 2230 D3 A key.

<sup>4</sup> Serial ATA (1 ports Support Standard Rev 3.0, the rest of ports Support Standard Rev 2.0)

## Graphics / Video Controller

	3030 AIO
Onboard Graphics:	
Intel HD Graphics 4400/4600 [4rd generation Core i3/i5 CPUs]	X
Intel HD Graphics (Pentium, Celeron CPU)	X
Discreet Graphics:	
AMD Radeon R5 A240	X

## External Ports / Connectors

	3030 AIO
USB 2.0 (Side/Rear/Internal)	0/4/0
USB 3.0 (Side/Rear/Internal)	2/0/0
Serial	n/a
Network Connector (RJ-45)	1 Rear
PS/2	n/a
Video:	
VGA	1 Rear
Audio:	
Universal headset	1 Side
Line in for microphone or stereo	n/a
Line out for headphones or speakers	1 Rear



## Communications – Integrated Realtek RTL8151GD

	3030 AIO
INTEGRATED Realtek RTL8151GD GIGABIT ETHERNET LAN 10/100/1000	Integrated on system board

This term does not connote an actual operating speed of 1 Gb/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

## Communications – Wireless

	3030 AIO
Intel 7260 AGN PCIe WLAN card (802.11a/b/n)	Optional (Integrated in system)
Intel 7260 AC PCIe WLAN card (802.11a/b/n)	Optional (Integrated in system)

\*Wireless card availability dependent upon country.

## Audio and Speakers

	3030 AIO
Realtek ALC3661 High Definition Audio Codec	Integrated on system board
Jabra UC Voice 250 MS Headset	Optional
Dell 2.1 Multimedia Speaker AC411 (Eagles)	Optional

## Keyboards and Mouse

	3030 AIO
Dell Entry Keyboard	Optional
Dell Wireless Keyboard	
Dell Multimedia Pro Keyboard	
Dell Smartcard Keyboard	
Dell USB Optical Mouse	
Dell Wireless	
Dell Laser Mouse	



## Security

	3030 AIO
Trusted Platform Module (TPM) 1.2 <sup>1</sup>	Integrated on system board Optional
Dell Smartcard Keyboard	Optional
Chassis lock slot and loop support	Included

<sup>1</sup>TPM is not available in all countries. Depending on your country regulations, no-TPM system boards may be available.

## Software

	3030 AIO
Dell Client Manager	Available via Dell.com Standard
Dell Data Protection   Security Tools (DDP ST)	Included
Dell Data Protection   Encryption (DDP E)	Optional
Dell Data Protection   Protected Workspace (DDP PW)	Included

## Environmental

NOTE: For more details on Dell Environmental features, please go to Environmental Attributes section. See your specific region for availability.

	3030 AIO
Recyclable packaging	Yes
BFR/PVC—free chassis	n/a
Multipack packaging	n/a
Energy Efficient Power Supply	Standard



## All-in-One Stands and Mounts



## Service and Support

NOTE: For more details on Dell Service Plans please to go to: [www.dell.com/service/service\\_plans](http://www.dell.com/service/service_plans)

	3030 AIO
1 Year Warranty <sup>1</sup> Next Business Day On-site <sup>2</sup> (1-1-1)	Standard in some regions
3 Year Warranty <sup>1</sup> Next Business Day On-site <sup>2</sup> (3-3-3)	Standard in some regions
ProSupport	Optional

1 For a copy of our guarantees or limited warranties, please write Dell USA L.P., Attn: Warranties, One Dell Way, Round Rock, TX 78682. For more information, visit [www.dell.com/warranty](http://www.dell.com/warranty).

2 Service may be provided by third-party. Technician will be dispatched if necessary following phone-based troubleshooting. Subject to parts availability, geographical restrictions and terms of service contract. Service timing dependent upon time of day call placed to Dell. U.S. only.



# Detailed Engineering Specifications

## System Dimensions (Physical)

NOTE: System Weight and Shipping Weight is based on a typical configuration and may vary based on PC configuration. A typical configuration includes: integrated graphics, one hard drive, one optical drive.

	3030 AIO
Non-Touch Chassis Weight w/o stand (pounds / kilograms)	11.233/5.1
Touch Chassis Weight w/o stand (pounds / kilograms)	12.762/5.794
Non-Touch Chassis Dimensions (system w/o stand): (HxWxD)	
Height (inches / centimeters)	12.94/32.88
Width (inches / centimeters)	19.28/48.99
Depth (inches / centimeters)	2.666/6.772
Touch Chassis Dimensions (system w/o stand): (HxWxD)	
Height (inches / centimeters)	12.94/32.88
Width (inches / centimeters)	19.28/48.99
Depth (inches / centimeters)	2.626/6.672
Basic Stand Dimensions	
Width x Depth (inches / centimeters)	8.07 x 8.07 / 20.5 x 20.5
Weight (pounds / kilograms)	3.19 / 1.45
Packaging Parameters (HxWxD—includes basic stand)	
Height (inches / centimeters)	47.24 / 120
Width (inches / centimeters)	43.30 / 110
Depth (inches / centimeters)	5.11 / 13
Non-Touch Chassis Shipping Weight (pounds / kilograms - includes packaging materials w/ Basic Stand)	28.63 / 13





## System Board Connector Maximum Add-in Card Allowable Dimensions

	3030 AIO
M.2. Slot (Black) (Voltage supported 3.3V)	1
Height (inches / centimeters)	0.866 / 2.2
Length (inches / centimeters)	1.181/ 3
Maximum Wattage	3W

## System Level Environmental and Operating Conditions

	3030 AIO
Temperature	
Operating	1. 32°C / 80%RH for 24 hours 2. 40C / 20% RH / for 24 hours 3. 0C for 24 hours
Non-Operating (Storage)	1. 40C / 80%RH for 24 hours 2. 65C / 20%RH for 24 hours 3. -40C for 24 hours 4. 65C / 90%RH for 72hours
Relative Humidity	
Maximum Vibration	
Operating	5~350Hz, 0.26Grms, 2 minutes per Test Orientation
Non-Operating	5~500Hz, 1.37 Grms, 15 minutes per side
Maximum Shock	
Operating	40 G +/- 5% with pulse duration of 2 msec +/- 10% per Test Orientation
Non-Operating	105 G +/- 5% with pulse duration of 2 msec +/- 10% per side
Maximum Altitude	
Operating	N/A
Non-Operating	N/A



## POWER

	3030 AIO
Power Supply	EPA
Wattage	180W
AC input voltage range	90-264
AC input current (low ac range / high ac range)	2.9A
AC input frequency	47~63
AC holdup time (80% load)	16mS
Efficiency (ENERGYSTAR 6.0 compliant)	Vac:115V Efficiency 20%Load: 82% 50%Load: 85% 100%Load: 82% Vac:230 Efficiency 20%Load: 82% 50%Load: 85% 100%Load: 82%
DC Parameters	
+12.0v output	+12VA:10A,+12VB:14.5A
-12.0v output	N/A
+12.0v auxiliary output	+12Vsb:0.4A
Max total power	180W
Max combined 12.0v power (note: only if more than one 12v rail)	180W
BTUs/h (based on PSU max wattage)	613.8 BTU
Power Supply Fan	Yes
Compliance	
ErP Lot6 Tier 2 0.5watt requirement	Y
80Plus Certified	Y
FEMP Standby Power Compliant	NA



3.0v CMOS battery (Type and estimated battery life)				
Brand	Type	Voltage	Composition	Life
JHIH HONG	CR2032	3V	Lithium	Continuous Discharge Under 15 kΩ Load to 2.5V End-Voltage. 20°C±2°C: 940Hrs or longer; 910Hrs or longer after 12 months
PANASONIC	CR2032	3V	Lithium	Continuous Discharge Under 15 kΩ Load to 2.5V End-Voltage. 20°C±2°C: 1183Hrs. or Longer. 1133Hrs. or Longer after 12 months.
MITSUBISHI	CR2032	3V	Lithium	Continuous Discharge Under 15 kΩ Load to 2.0V End-Voltage. 20°C±2°C 940Hrs. or Longer. 910Hrs. or Longer after 12 months.

## Audio

Integrated Realtek ALC3220 High Definition Audio	3030 AIO
High Definition Stereo Support	Yes
Number of channels	2
Number of Bits / Audio resolution	16, 24-bit resolution
Sampling rate (recording / playback)	Support 44.1K/48K/96K/192 kHz sample rates Support 44.1K/48K/96K/192 kHz sample rates
Signal to Noise Ratio	94dB SPL @ 1KHz, A-weighted SNR : -61dB(A)
Analog Audio	Yes
Dolby Digital	N/A
THX	N/A
Digital out (S/PDIF)	N/A
Audio Jack Impedance	
Microphone	40K ohm~60K ohm
Line-in	40K ohm~60K ohm
Line-out	100~150 ohm
Headphone	1~4 ohm
Internal Speaker Power Rating	3.5Watt (peak) 4 Ohm / 3Watt (average) 4 Ohm



## Communications – Integrated Realtek RTL8151GD

INTEGRATED Realtek RTL8151GD GIGABIT <sup>1</sup> ETHERNET LAN 10/100/1000	3030 AIO
External Connector Type	RJ45
Data Rates Supported	10/100/1000 Mbps <sup>1</sup>
Controller Details	
Controller Bus Architecture	PCI Express Base Specification Revision 1.1
Integrated Memory	Yes
Data Transfer Mode (example: Bus-Master DMA)	Yes
Power Consumption (full operation per data rate connection speed)	828.76mW (Max.)
Power Consumption (standby operation)	49.37mW (Max.)
IEEE Standards Compliance	802.3
Hardware Certifications	N/A
Boot ROM Support	N/A
Network Transfer Mode	
Network Transfer Rate (example 10BASE-T (half-duplex) 10 Mbps 10BASE-T (full-duplex) 20 Mbps 100BASE-TX (half-duplex) 100 Mbps 100BASE-TX (full-duplex) 200 Mbps 1000BASE-T (full-duplex) 2000 Mbps	10 Mb (full/half-duplex) 100 Mb (full/half-duplex) 1000 Mb (full-duplex)
Environmental	
Operating Temperature	0° C to 70° C
Operating Humidity	IC level 40~60% RH PCB level 0~90% RH
Operating System Driver Support	Windows 7 32/64, Windows 8.1 32/64
Manageability	WOL, PXE 2.1
Management Capabilities Alerting	N/A

<sup>1</sup> This term does not connote an actual operating speed of 1 Gb/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.



## Communications – Wireless

Intel Wireless 7260 802.11a/g/n	3030 AIO
Connector Type	Custom WLAN Antenna Connector
Controller Details	
Controller Bus Architecture	Electrically compatible with the PCI Express Base Specification v1.1 (x1 lane) and PCIe v1.0a.
WLAN Standards Supported	802.11a, 802.11b, 802.11g, 802.11n
802.11a Data Rates Supported	11, 5.5, 2, 1 Mbps
802.11b Data Rates Supported	54, 48, 36, 24, 18, 12, 9, 6 Mbps
802.11g Data Rates Supported	54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbps
802.11n Data Rates Supported	270, 240, 180, 135, 130, 121.5, 120, 117, 108, 104, 90, 81, 78, 65, 60, 58.5, 54, 52, 40.5, 39, 30, 27, 26, 19.5, 13.5, 13, 6.5 Mbps
Encryption	WEP 64-bit and 128-bit, TKIP, AES-CCMP 128-bit
Operating Temperature	-10–85°C
Operating Humidity	Max Operating Humidity 95 %
Operating System Driver Support	Windows 8 32/64, Windows 7 32/64, Windows XP 32/64, Vista 32/64



# Graphics / Video Controller

## Onboard Graphics

Onboard Graphics	Intel HD Graphics 4600 by i5 Quad Core Intel HD Graphics 4400 by i3 Dual Core Intel HD Graphics by Pentium/Celeron
Bus Type	Integrated
GPU core clock	I5-4570S/I3-4130: 1.15 GHz G3220: 1.1 GHz G1820: 1.05 GHz
Frame Buffer Memory (onboard and shared) Size and Speed	Depends on available system memory (Up to 1.7GB with 4GB system Memory)
Overlay Planes	Yes
Maximum Color Depth	32bit
Maximum Vertical Refresh Rate	75Hz
Multiple Display Support	Yes
Operating System Graphics / API Support	OpenGL 4.0/DirectX 11.1/OpenCL 1.2
Supported Resolutions and Max Refresh Rates (Hz) (Note: Analog and/or digital)	N/A (w/o External Display)
External Connectors	N/A
VGA	
Bus Type	Analog VGA Display
Maximum Supported Resolution	Up to 1920x1200 @ 60Hz
Maximum Power Consumption	N/A
External Connectors	VGA

## 1GB AMD JET XT

Graphics	AMD Radeon R5 240
Bus Type	PCIEx8
GPU core clock	Graphics @ 800~1030MHz
Frame Buffer Memory (onboard and shared) Size and Speed	On board SDRAM DDR3 1GB and Speed at 900 MHz
Maximum Power Consumption	25W
Overlay Planes	N/A
Maximum Color Depth	N/A
Maximum Vertical Refresh Rate	N/A
Multiple Display Support	N/A
Operating System Graphics / API Support	OpenGL 4.3/ OpenCL™ 1.2 /DirectX 11.1
Supported Resolutions and Max Refresh Rates (Hz) (Note: Analog and/or digital)	N/A (w/o External Display)
External Connectors	N/A
Dimensions of Full Height Card	Integrated on system board



inches/centimeters (L x H)	
Dimensions of Low Profile Card inches/centimeters (L x H)	Integrated on system board
<b>Environmental Operating Conditions (Non-Condensing)</b>	
Operating Temperature Range	105° C
Relative Humidity Range	5-90% RH
Altitude Range	0-20,000 ft.

## Hard Drives

### 2.5" 1TB SATA3 5400 RPM HDD

2.5" 1TB SATA3 7200 RPM HDD	3030 AIO
Capacity (bytes)	1,000,204,886,016
Dimensions inches (W x D x H)	Approximately 2.75 x 3.95 x 0.374 inches
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
Internal buffer size	16 MB
Average Seek Time	15 ms
Rotational Speed	5400 rpm
Logical Blocks	1,953,525,168
<b>Power Source</b>	
Power Consumption (reference only)	Idle 0.7W, Active 3.25W(running IOMeter utility)
Spin Up Current (reference only)	5V (1A)
<b>Environmental Operating Conditions (Non-Condensing)</b>	
Temperature Range	5°C to 60°C
Relative Humidity Range	10% to 90% non-condensing
Maximum Dew Point Temperature	26°C
Altitude Range	-1000 ft to 10000 ft
<b>Environmental Non-Operating Conditions (Non-Condensing):</b>	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95% non-condensing
Maximum Wet Bulb Temperature	33°C
Altitude Range	-1000 ft to 40000 ft

### 2.5" 500GB SATA3 5400 RPM HDD

2.5" 500GB SATA3 7200 RPM HDD	3030 AIO
Capacity (bytes)	500,107,862,016
Dimensions inches (W x D x H)	Approximately (2.75 x 3.95 x 0.278 inches )
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
Internal buffer size	16MB



Average Seek Time	13ms
Rotational Speed	5400 rpm
Logical Blocks	976,773,168
<b>Power Source</b>	
Power Consumption (reference only)	Idle 0.7W, Active 3.25W(running IOmeter utility)
Spin Up Current (reference only)	5V (1A)
<b>Environmental Operating Conditions (Non-Condensing)</b>	
Temperature Range	5°C to 60°C
Relative Humidity Range	10% to 90% non-condensing
Maximum Dew Point Temperature	26°C
Altitude Range	-1000 ft to 10000 ft
<b>Environmental Non-Operating Conditions (Non-Condensing):</b>	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95% non-condensing
Maximum Wet Bulb Temperature	33°C
Altitude Range	-1000 ft to 40000 ft

## 2.5" 500GB SATA3 5400 RPM HYBRID HDD W/8GB FLASH

2.5" 500GB SATA3 5400 RPM HYBRID HDD W/8GB FLASH	3030 AIO
Capacity (bytes)	500,107,862,016
Cache	Dynamic
Dimensions inches (W x D x H)	Approximately (2.75 x 3.95 x 0.278 inches)
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
Internal buffer size	64MB
Average Seek Time	12 ms
Rotational Speed	5400 rpm
Logical Blocks	976,773,168
<b>Power Source</b>	
Power Consumption (reference only)	Idle 0.7W, Active 3.25W
Spin Up Current (reference only)	5V (1A)
<b>Environmental Operating Conditions (Non-Condensing)</b>	
Temperature Range	5°C to 60°C
Relative Humidity Range	10% to 90% non-condensing
Maximum Dew Point Temperature	26°C
Altitude Range	-1000 ft to 10000 ft
<b>Environmental Non-Operating Conditions (Non-Condensing):</b>	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95% non-condensing
Maximum Wet Bulb Temperature	33°C





Altitude Range	-1000 ft to 40000 ft
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## 2.5" 500GB SATA 5400 RPM Hybrid SECURE ENCRYPTED DRIVE (Post RTS item, Will support by Jun block)

2.5" 500GB SATA 5400 RPM Hybrid SECURE ENCRYPTED DRIVE	3030 AIO
Capacity (bytes)	500,107,862,016
Dimensions inches (W x D x H)	Approximately (2.75 x 3.95 x 0.278 inches)
Interface type and Maximum speed	Up to 3Gb/s
Internal buffer size	64 MB
Average Seek Time	12 ms (Read)
Rotational Speed	5400 rpm
Logical Blocks	976,773,168
Power Source	
Power Consumption (reference only)	Idle 0.7W, Active 3.25W
Spin Up Current (reference only)	5V (1A)
Environmental Operating Conditions (Non-Condensing)	
Temperature Range	5°C to 60°C
Relative Humidity Range	10% to 90% non-condensing
Maximum Dew Point Temperature	Operating: 26°C Non-Operating: 33° C
Altitude Range	-1000 ft to 10000 ft
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95% non-condensing
Maximum Wet Bulb Temperature	33°C
Altitude Range	-1000 ft to 40000 ft

## 2.5" 128GB SOLID STATE DRIVE

2.5" 128GB SOLID STATE DRIVE	3030 AIO
Capacity (bytes)	128,035,676,160
Dimensions inches (W x D x H)	3.94 x 2.75 x 0.374
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	>1.5M hours
Logical Blocks	250,069,680
Power Source	
Power Consumption (reference only)	Idle 0.5W, Active 2.5W
Environmental Operating Conditions (Non-Condensing)	
Temperature Range	5°C to 60°C
Relative Humidity Range	10% to 90% non-condensing
Maximum Dew Point	Operating: 26°C



Temperature	Non-Operating: 33° C
Altitude Range	-1000 ft to 10000 ft
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95% non-condensing
Maximum Wet Bulb Temperature	33°C
Altitude Range	-1000 ft to 40000 ft



## Optical Drives

### DVD-ROM

DVD-ROM	3030 AIO
External Dimensions inches/centimeters (Without Bezel – W x H x D)	128.0 mm (5.04 in)/9.5mm (0.37in)/126.1mm (4.97in) (max)
Weight (max) pounds/kilograms	140g
Interface type and speed	SATA 1.5Gbit/s
Disc Capacity	Standard
Internal buffer size	supplier dependent
Access Times (typical)	supplier dependent
Maximum Data Transfer Rates	
Writes	N/A
Reads	8x DVD/24x CD
Power Source	
DC Power Requirements	5V
DC Current	800mA
Environmental Operating Conditions (Non-Condensing):	
Operating Temperature Range	5C to 50C
Relative Humidity Range	20% to 80% RH
Maximum Wet Bulb Temperature	29C
Altitude Range	-200 to 3048m
Environmental Non-Operating Conditions (Non-Condensing):	
Operating Temperature Range	-40C to 65C
Relative Humidity Range	5% to 95% RH
Maximum Wet Bulb Temperature	38C
Altitude Range	-200 to 10600m



## DVD-RW

DVD +/- RW <sup>1</sup>	3030 AIO
External Dimensions inches/centimeters (Without Bezel – W x H x D)	128.0 mm ( 5.04 in)/ 9.5mm ( 0.37 in ) /126.1mm (4.97 in) (max)
Weight (max) pounds/kilograms	140g
Interface type and speed	SATA 1.5Gbit/s
Disc Capacity	Standard
Internal buffer size	supplier dependent
Access Times (typical)	supplier dependent
Maximum Data Transfer Rates	
Writes	8x DVD/24x CD
Reads	8x DVD/24x CD
Power Source	
DC Power Requirements	5V
DC Current	800mA
Environmental Operating Conditions (Non-Condensing):	
Operating Temperature Range	5C to 50C
Relative Humidity Range	20% to 80% RH
Maximum Wet Bulb Temperature	29C
Altitude Range	-200 to 3048m
Environmental Non-Operating Conditions (Non-Condensing):	
Operating Temperature Range	-40C to 65C
Relative Humidity Range	5% to 95% RH
Maximum Wet Bulb Temperature	38C
Altitude Range	-200 to 10600m



## Media Card Reader (MCR)

Media Card Reader	3030 AIO
External Dimensions inches/(centimeters) (With Bezel – W x H)	0.4*0.4*0.075
Weight (max) pounds/kilograms	0.04g
Interface type and speed	PCI-E
Media Supported ( maximum capacity supported will vary by Flash Media Types)	
Media Supported	Secure Digital (SD) SDXC SDHC Multi Media Card (MMC) (4 in 1 Card)
Support Specification Versions:	Complies with SD Spec up to ver. 3.0 ,support UHSI (Ultra High-Speed Max 104MB/s) Complies with MMC Spec up to ver. 4.4.1
Power Source	
Max Power Requirements	3.3V(3.15~3.45V)
Supply Voltage Range	3.3V
Power Consumption:	561uW@ 1.2V Idle mode(L2)
Environmental Operating Conditions (Non-Condensing):	
Operating Temperature Range	5~50° C
Relative Humidity Range	10% to 90% RH
Environmental Non-Operating Conditions (Non-Condensing):	
Operating Temperature Range	-40~65° C
Relative Humidity Range	5% to 95% RH



## BIOS Defaults

<b>System Configuration</b>	Integrated NIC:	Enable w/PXE
	SATA Operation:	AHCI
	Drives:	Enable (SATA-0, SATA-1)
	SMART Reporting:	Disable
	USB Configuration:	Enable (Boot Support, Rear USB Ports, Port 1(Left), Port 2(Center left), Port 3 (Center Right), Port 4 (Right), Side USB Ports, Port 1 (Top), Port 2 (Bottom))
	Audio	Enable (Enable Audio, Enable Microphone, Enable Internal Speaker)
	OSD Button Management	Disable
	Miscellaneous Devices	Enable (Enable Camera, Enable Media Card)
<b>Secure Boot</b>	Secure Boot Enable	Disable
	Expert Key management	Disable
<b>Performance</b>	Multiple Core Support:	All
	Intel® SpeedStep™:	Enable
	C States Control:	Enable
	Limit CPUID Value:	Disable
	Intel TurboBoost	Enable
	HyperThread control:	Enable
<b>Virtualization Support</b>	Virtualization:	Enable
<b>Security</b>	Strong Password:	Disable
	Password Configuration:	4~32



	Password Bypass	Disable
	Password Changes:	Enable
	TPM Security:	Disable
	Computrace®:	Deactivate
	CPU XD Support:	Enable
	Admin Setup Lockout	Disable
	HDD Protection Support	Disable
<b>Power Management</b>	AC Recovery:	Power Off
	Auto On Time:	Disable
	Deep Sleep Control:	Enable in S4 & S5
	Fan Control Override:	Disable
	USB Wake Support	Enable
	Wake on LAN/WLAN:	Disable
	Block sleep	Disable
	Intel® Smart Connect Technology	Disable
<b>Maintenance</b>	Service Tag:	Set by the factory
	Asset Tag:	Optional User Entry
	SERR Message:	Enable
<b>Cloud Desktop</b>	Server Lookup Method	DNS
	Server Name	CDServer
	Server IP Address	255.255.255.255
	Server Port	06910
	Client Address Method	DHCP
	Client IP Address	255.255.255.255
	Client Subnet Mask	255.255.255.255
	Client Gateway	255.255.255.255
	DNS IP Address	255.255.255.255
	Domain Name	



	Advanced	Disable
POST Behavior	Numlock LED:	Enable
	Keyboard Errors:	Enable
	Fastboot	Thorough
Wireless Device Enable	WLAN/WiGig	Enable
	Bluetooth®	Enable





# CHASSIS ENCLOSURE & VENTILATION REQUIREMENTS

## ENCLOSURE VENTILATION

If your enclosure has doors, they need to be of a type that allows at least 40% airflow through the enclosure (front and back).

## ENCLOSURE MINIMUM CLEARANCE

Leave a 10.2 cm (4 in.) minimum clearance on all vented sides of the computer to permit the airflow required for proper ventilation.

## RECOMMENDED ENCLOSURE

Do not install your computer in an enclosure that does not allow airflow. This restricts the airflow and impacts your computer's performance, possibly causing it to overheat.

## OPEN DESK MINIMUM CLEARANCE

If your computer is installed in a corner, on a desk, or under a desk, leave at least 5.1 cm (2 in.) clearance from the back of the computer to the wall to permit the airflow required for proper ventilation.



## REGULATORY AND ENVIRONMENTAL COMPLIANCE

Product related conformity assessment and regulatory authorizations including Product Safety, Electromagnetic Compatibility (EMC), Ergonomics, and Communication Devices relevant to this product may be viewed at [www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance). The Regulatory Datasheet for this product is located at [http://www.dell.com/regulatory\\_compliance](http://www.dell.com/regulatory_compliance).

Details of Dell's environmental stewardship program to conserve product energy consumption, reduce or eliminate materials for disposal, prolong product life span and provide effective and convenient equipment recovery solutions may be viewed at [www.dell.com/environment](http://www.dell.com/environment). Product related conformity assessment, regulatory authorizations, and information encompassing Environmental, Energy Consumption, Noise Emissions, Product Materials Information, Packaging, Batteries, and Recycling relevant to this product may be viewed by clicking the Design for Environment link on the webpage.



# Acoustic Noise Emission Information

## OptiPlex 3030 AIO

Component	Test Configuration
CPU	Intel i5-4570S
Memory	8G DD3,1600 x 2pcs
HDD (#, capacity)	Toshiba 500G 2.5inch
RMSD	
Graphics Adapter	Jet-XT

## Declared Sound Power (LWAd)

The Declared Noise Emission in accordance with ISO 9296 for the OptiPlex 3020 MT is as follows: (all values LWAd expressed in bels; 1 bel=10 decibels, re 10-12 Watts)

Operating Mode	Declared Sound Power(LWAd)
Idle	3.3
HDD Operating	3.5
CPU Stressed	4.2
ODD Operating	4.0

## A-Weighted Sound Pressure Level (dB)

The Declared A-weighted Sound Pressure Level in decibels (re 2x10<sup>-5</sup> Pa), at Operator and Bystander Positions are measured in accordance with ISO 7779 7.6.1, 7.6.2, and C.15.2 and declared in accordance with ISO 9296 for this product is as follows<sup>1</sup>:

Declared Sound Pressure (LpA)				
	Tabletop System		Floor Standing System	
Operating Mode	Operator Position	Bystander Position	Operator Position	Bystander Position
Idle	20.4	17.5	n/a	n/a
HDD Operating	20.2	17.5	n/a	n/a
CPU Stressed	20.4	17.7	n/a	n/a
ODD Operating	37.7	34.9	n/a	n/a

1 All tests are conducted according to ISO 7779 and declared according to ISO 9296 except CPU Stressed. This test mode is not specified in ISO 7779, but was measured using the same microphone distances and measurement techniques defined for the other reported operating modes.

2 Declared Sound Power rounded to nearest tenth of a bel per ISO 9296 section 4.4.2

