


EPEAT Registry

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Product: DELL OptiPlex 3050 SFF
 CAR: Green Electronics Council CAR
 Country: United States
 Product Type: Desktops
 Manufacturer: Dell, Inc.
 URL:

Rating: 
 Registration Date: 1/24/2017

Product Status: Active

Exceptions: Registration is valid only for products configured with an operating system with ENERGY STAR compliant power management features and power supply. Computers without such features may not conform to 4.5.1.1 ENERGY STAR and would not be in conformance with EPEAT.

Manufacturer:
 Part #:
 UPC:
 EAN:
 Consumer or Institutional: Not Indicated

EPEAT Criteria Detail

- Yes 4.1.1.1 Compliance with provisions of European RoHS Directive upon its effective date
 Yes 4.1.2.1 Elimination of intentionally added cadmium
 Yes 4.1.5.1 Elimination of intentionally added hexavalent chromium
 Yes 4.1.6.1 Elimination of intentionally added SCCP flame retardants and plasticizers in certain applications
 Yes 4.1.6.2 Large plastic parts free of certain flame retardants classified under European Council Directive 87/548/EEC
 Yes 4.1.7.1 Batteries free of lead, cadmium and mercury
 Yes 4.1.8.1 Large plastic parts free of PVC
 Yes 4.2.1.1 Declaration of postconsumer recycled plastic content (%): 9
 No 4.2.1.2 Minimum content of postconsumer recycled plastic
 No 4.2.1.3 Higher content of postconsumer recycled plastic
 Yes 4.2.2.1 Declaration of renewable/bio-based plastic materials content (%): 0
 No 4.2.2.2 Minimum content of renewable/bio-based plastic material
 Yes 4.2.3.1 Declaration of product weight (lbs): 13.9 Pounds
 Yes 4.3.1.1 Identification of materials with special handling needs
 Yes 4.3.1.2 Elimination of paints or coatings that are not compatible with recycling or reuse
 Yes 4.3.1.3 Easy disassembly of external enclosure
 Yes 4.3.1.4 Marking of plastic components
 Yes 4.3.1.5 Identification and removal of components containing hazardous materials
 Yes 4.3.1.6 Reduced number of plastic material types
 Yes 4.3.1.7 Molding/glued in metal eliminated or removable
 Yes 4.3.1.8 Minimum 65 percent reusable/recyclable
 Yes 4.3.1.9 Minimum 90 percent reusable/recyclable
 Yes 4.3.2.1 Manual separation of plastics
 Yes 4.3.2.2 Marking of plastics
 Yes 4.4.1.1 Availability of additional three year warranty or service agreement
 Yes 4.4.2.1 Upgradable with common tools
 Yes 4.4.2.2 Modular design
 Yes 4.4.3.1 Availability of replacement parts
 Yes 4.5.1.1 ENERGY STAR® 5.1-Computers: N/A
 Yes 4.5.2.1 Renewable energy accessory available
 No 4.5.2.2 Renewable energy accessory standard
 Yes 4.6.1.1 Reduction/elimination of intentionally added toxics in packaging
 Yes 4.6.2.1 Separable packing materials
 Yes 4.6.2.2 Packaging 50% recyclable and plastics labeled
 Yes 4.6.3.1 Declaration of recycled content in packaging Solid Fiber boxes=30-40,Fiber=0-0;
 Yes 4.6.3.2 Minimum postconsumer content guidelines
 No 4.6.4.1 Provision of take-back program for packaging
 No 4.6.5.1 Documentation of reusable packaging
 Yes 4.6.5.1 Provision of product take-back service
 Yes 4.6.1.2 Auditing of recycling vendors
 Yes 4.6.2.1 Provision of rechargeable battery take-back service: Partner/Call2Recycle Link: <http://www.call2recycle.org/>
 Yes 4.7.1.1 Demonstration of corporate environmental policy consistent with ISO 14001
 Yes 4.7.2.1 Self-certified environmental management system for design and manufacturing organizations
 Yes 4.7.2.2 Third-party certified environmental management system for design and manufacturing organizations
 Yes 4.7.3.1 Corporate report consistent with Performance Track or GRI
 Yes 4.7.3.2 Corporate report based on GRI

EPEAT Criteria Summary

Criteria Category Summary	Optional Points
4.1 Reduction/elimination of environmentally sensitive materials	5/5
4.2 Material selection	0/3
4.3 Design for end of life	5/5
4.4 Product longevity/life cycle extension	2/2
4.5 Energy conservation	1/2
4.6 End of life management	1/1
4.7 Corporate performance	2/2

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- 2 Get details on specific qualifying models.
- 3 Make informed purchasing decisions.

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DELL - D11S : OptiPlex 3050 SFF

Specifications

Type:	Desktop
Notebooks, Desktops, Integrated Computers, Smart/Thinlets, Two-in-one Notebooks, and Portable All-in-ones Category for TEC (Typical Energy Consumption) Criteria:	0,011,02,02
Category 1: Processor Brand:	Intel
Category 1: Processor Name:	Pentium
Category 1: Operating System Name:	Windows 10 Pro
Category 1: Base Processor Speed Per Core (GHz):	2.8
Category 1: System Memory (GB):	32.0
Category 1: Default Low-power Mode:	Sleep Mode
Category 1: Long Idle Power Used for Sleep Mode:	No
Category 1: Off Mode (watts):	0.4
Category 1: Sleep Mode (watts):	1.4
Category 1: Long Idle (watts):	16.7
Category 1: Short Idle (watts):	17.5
Category 1: Base TEC Allowance (kWh):	112
Category 1: Functional Adder Allowances (kWh):	25.0
Category 1: TEC of Model (kWh):	77.8
Category 2: Processor Brand:	Intel
Category 2: Processor Name:	Pentium
Category 2: Operating System Name:	Windows 10 Pro
Category 2: Base Processor Speed Per Core (GHz):	3.3
Category 2: System Memory (GB):	32.0
Category 2: Default Low-power Mode:	Sleep Mode
Category 2: Long Idle Power Used for Sleep Mode:	No
Category 2: Off Mode (watts):	0.3
Category 2: Sleep Mode (watts):	1.4
Category 2: Long Idle (watts):	17.0
Category 2: Short Idle (watts):	18.1
Category 2: Base TEC Allowance (kWh):	120
Category 2: Functional Adder Allowances (kWh):	25.0
Category 2: TEC of Model (kWh):	80.4

REBATE FINDER

ENERGY STAR partners a portion of rebates on certified products. Enter a zip code below to find deals near you!

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PRODUCTS

Looking for more information about how to save with ENERGY STAR products?

Select a Product Category



Category C3: Processor Brand®:	Intel
Category C3: Processor Name®:	Core i3
Category C3: Operating System Name®:	Windows 10 Pro
Category C3: Base Processor Speed Per Core (GHz)®:	3.7
Category C3: System Memory (GB)®:	32
Category C3: Default Low-power Mode®:	Sleep Mode
Category C3: Long Idle Power Used for Sleep Mode®:	No
Category C3: Off Mode (watts)®:	0.4
Category C3: Sleep Mode (watts)®:	1.4
Category C3: Long Idle (watts)®:	17.5
Category C3: Short Idle (watts)®:	18.8
Category C3: Base TEC Allowance (kWh)®:	135
Category C3: Functional Adder Allowances (kWh)®:	25.6
Category C3: TEC of Model (kWh)®:	33.0
Category D1: Processor Brand®:	Intel
Category D1: Processor Name®:	Core i3
Category D1: Operating System Name®:	Windows 10 Pro
Category D1: Base Processor Speed Per Core (GHz)®:	3.7
Category D1: System Memory (GB)®:	32
Category D1: Graphics Category®:	G4
Category D1: Default Low-power Mode®:	Sleep Mode
Category D1: Long Idle Power Used for Sleep Mode®:	No
Category D1: Off Mode (watts)®:	0.4
Category D1: Sleep Mode (watts)®:	1.4
Category D1: Long Idle (watts)®:	22.1
Category D1: Short Idle (watts)®:	22.8
Category D1: Base TEC Allowance (kWh)®:	135
Category D1: Functional Adder Allowances (kWh)®:	100.6
Category D1: TEC of Model (kWh)®:	100.6
Category C2: Processor Brand®:	Intel
Category C2: Processor Name®:	Core i5
Category C2: Operating System Name®:	Windows 10 Pro
Category C2: Base Processor Speed Per Core (GHz)®:	3.2
Category C2: System Memory (GB)®:	32.0
Category C2: Graphics Category®:	G4
Category C2: Default Low-power Mode®:	Sleep Mode
Category C2: Long Idle Power Used for Sleep Mode®:	No
Category C2: Off Mode (watts)®:	0.4
Category C2: Sleep Mode (watts)®:	1.4
Category C2: Long Idle (watts)®:	21.1
Category C2: Short Idle (watts)®:	22.4
Category C2: Base TEC Allowance (kWh)®:	135
Category C2: Functional Adder Allowances (kWh)®:	105.8
Category C2: TEC of Model (kWh)®:	96.3
Sleep Mode Default Time Upon Shipment (min.)®:	30
Display Sleep Mode Default Time Upon Shipment (min.)®:	10
WOL (Wake on LAN) From Sleep:	Shipped Disabled
Will the Speed of Any Active 1 Gb/s or Higher Ethernet Network Links be Reduced to Less Than 1 Gb/s When Transitioning to Sleep or Off Mode?®:	Yes
Date Available On Market®:	01/18/2017
Date Qualified®:	10/26/2016
Markets®:	United States, Australia, New Zealand, Switzerland, Europe, Taiwan, Japan, Canada

Additional Product Information

D118, OptiFlex S050 SFF, D118, OptiFlex 7050 SFF.

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Windows Compatible Products List

Coprocessor 3050

by Dell Inc.

Compatibility details

Verification report:	1924803 - Certification Report - 11/20/2016
	1926320 - Certification Report - 11/23/2016
	1926325 - Certification Report - 11/23/2016
	1926326 - Certification Report - 11/23/2016
	1926399 - Certification Report - 11/23/2016
	1926591 - Certification Report - 11/24/2016
	1925786 - Certification Report - 11/27/2016
	1926810 - Certification Report - 11/27/2016
	1927430 - Certification Report - 11/30/2016
	1927492 - Certification Report - 12/01/2016
	1927493 - Certification Report - 12/01/2016
	1927505 - Certification Report - 12/01/2016
	Compatibility status:
Product types:	Desktop

Feature and AQ's:	Windows 7 Client
	<ul style="list-style-type: none"> System.Client.Aero System.Client.BluetoothController.Base System.Client.BluetoothController.USB System.Client.BrightnessControls System.Client.CPU System.Client.Firewall System.Client.Firmware.UEFI.GOP System.Client.Graphics System.Client.MediaTranscode System.Client.PCController System.Client.SystemConfiguration System.Client.SystemImage System.Client.SystemPartition System.Client.VideoEncode System.Client.VideoPlayback System.Client.WLAN.Base.Connectivity System.Client.WLAN.HangDetectionAndRecovery System.Client.WLAN.Support.MACAddressRandomization System.Client.WLAN.WiFiDirect System.Fundamentals.DebugPort System.Fundamentals.DebugPort.USB System.Fundamentals.Firmware System.Fundamentals.Firmware.Boot System.Fundamentals.Graphics System.Fundamentals.Graphics.Display System.Fundamentals.Graphics.Display.Firmware.VBE System.Fundamentals.Graphics.Display.Render System.Fundamentals.HAL System.Fundamentals.Input System.Fundamentals.MarketFile System.Fundamentals.Network System.Fundamentals.NX System.Fundamentals.PowerManagement System.Fundamentals.PXE System.Fundamentals.Reliability System.Fundamentals.Security System.Fundamentals.SignedDrivers System.Fundamentals.SMBIOS System.Fundamentals.SystemAudio System.Fundamentals.SystemAudio.3rdParty.Driver System.Fundamentals.SystemPCIController System.Fundamentals.SystemUSB System.Fundamentals.TPM.NonCS

System.Fundamentals.TPM20
System.Fundamentals.TrustedPlatformModule
System.Fundamentals.USBBoot
System.Fundamentals.USBDevice
System.Fundamentals.WatchDogTimer
System.Server.Base
System.Server.Graphics
System.Server.Graphics.XDDM
System.Server.SMBIOS
System.Server.SVVP
System.Server.SystemStress
System.Server.Virtualization
System.Server.WHEA

Relevant sites

[Windows Dev Center](#)
[Windows Dev Center home](#)
[Windows Store apps](#)
[Microsoft Edge](#)
[Hardware Dev Center](#)

[Other links](#)
[SUPPORT](#)
[Microsoft Connect](#)
[OEM](#)



MARKETING NAME.....OptiPlex 7050 SFF/OptiPlex 5050 SFF/OptiPlex 3050 SFF
 REGULATORY MODEL.....D11S
 REGULATORY TYPE..... D11S002
 EFFECTIVE DATE..... Jan 18, 2017
 EMC EMISSIONS CLASS...B

Dell Inc.
 www.dell.com

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STATEMENT OF COMPLIANCE

This product has been determined to be compliant with the applicable standards, regulations, and directives for the countries where the product is marketed. The product is affixed with regulatory marking and text as necessary for the country/agency. Generally, Information Technology Equipment (ITE) product compliance is based on IEC and CISPR standards and their national equivalent such as Product Safety, IEC 60950-1 and European Norm EN 60950-1 or EMC, CISPR 22/CISPR 24 and EN 55022/55024. Dell products have been verified to comply with the EU RoHS Directive 2011/65/EU. Dell products do not contain any of the restricted substances in concentrations and applications not permitted by the RoHS Directive.

EMC Emissions Class refers to one of the following use environments:

- EMC Class B products are intended for use in residential/domestic environments but may also be used in non-residential/non-domestic environments.
- EMC Class A products are intended for use in non-residential/non-domestic environments. Class A products may also be utilized in residential/domestic environments but may cause interference and require the user to take adequate corrective measures.

For Product Safety and EMC compliance, this product has been assigned a unique regulatory model and regulatory type that is imprinted on the product labeling to provide traceability to the regulatory approvals noted on this datasheet. This datasheet applies to any product that utilizes the assigned regulatory model and type including marketing names other than those listed on this datasheet. ErP compliance is tied to the CE mark.

REACH (Registration, Evaluation, Authorization and Restriction of Chemicals, 1907/2006) is the European Union's (EU) chemical substances regulatory framework. Dell complies with the REACH directive. For information on SVHC (Substances of Very High Concern), see www.dell.com/REACH.

Compliance documentation, such as certification or Declaration of Compliance for the product is available upon request to regulatory_compliance@dell.com. Please include product identifiers such as marketing name, regulatory module, regulatory type and country that compliance information is needed in request.



I. GLOBAL ENVIRONMENTAL INFORMATION

Country	Environmental (Voluntary Marks)	
	Approval	Compliance
Global	ENERGY STAR (Configuration Dependent)	6.1
Varies by country - see EPEAT.net	EPEAT (Configuration Dependent)	Gold
China	CECP	Yes
Japan	Green PC Label	Yes
South Korea	Eco Label	Yes
Taiwan	Greenmark	Yes
Sweden	TCO	Yes

II. NFPA 99 CONFORMITY

Select Dell systems have been tested and found to comply with the touch current requirements as defined in 10.3.5 of National Fire Protection Association standard NFPA 99:2012. The touch current does not exceed 100 μ A with ground wire intact (if a ground wire is provided) and 500 μ A with ground disconnected at 127 V AC, 60 Hz when tested in accordance with 10.3.5 of NFPA 99: 2012. To determine if this product complies with the above requirements, send a request to regulatory_compliance@dell.com. Please include product identifiers such as marketing name, regulatory type and country for which compliance information is needed.

III. POWER CORDS AND USER DOCUMENTATION

Dell products are provided with the power cord and user documentation suitable for the intended country of delivery. Products that are relocated to other countries should use nationally certified power cords and plugs to ensure safe operation of the product. Contact Dell to determine if alternate power cords or user documentation in other languages is available for your market.

IV. DATASHEET RESPONSIBLE PARTY NAME AND ADDRESS

Dell Inc.
Department: Global Regulations and Standards
MS: PS4-30
Round Rock, Texas 78682, USA
Regulatory_Compliance@Dell.com

V. TRADE (IMPORT/EXPORT) COMPLIANCE DATA

For any questions related to importing & exporting classification of Dell products, please obtain information from the following link: www.dell.com/import_export_compliance or send request to WW_Export_Compliance@dell.com

VI. SYSTEM DIMENSION AND WEIGHT

Depth, mm/cm	Width, mm/cm	Height, mm/cm	Weight, kg
292.0	92.6	290.0	6.3Kg (depending upon installed options)

VII. PERFORMANCE DATA (ErP Lot 3 information is located in section XIV Appendix A)



* **Energy Consumption** results are based solely upon the laboratory testing of the **System Configuration** listed above. Energy consumption is tested at 230 Volts / 50 Hz.
Energy Consumption*

Energy efficiency benefits the environment and lowers the total cost of equipment ownership by reducing power consumption. Dell offers energy calculators that help estimate power needs, potential emissions avoidance and potential cost savings. Click [here](#) for Dell's Client Energy Savings Calculator, Data Center Capacity Planner, and Monitor Power Savings Calculator. Information on Energy Efficiency is available [here](#)

* This document is informational only and reflects laboratory performance. Your product may perform differently, depending on the software, components and peripherals you ordered. Accordingly, the customer should not rely upon this information in making decisions about electrical tolerances or otherwise. No warranty as to accuracy or completeness is expressed or implied. For more details visit www.dell.com/environmental_information

Declared Noise Emissions in accordance with ISO 9296 (tested in accordance with ISO 7779)

VIII. PRODUCT MATERIALS INFORMATION*

Information on Dell's material use is available [here](#).

To review Dell's Restricted Material Guidance document click [here](#).

- The case material is, > Galvanized steel <
- This product contains **11.0%** post-consumer recycled plastic.
- Marking of plastic parts greater than 25 grams are done in accordance with ISO 11469 (see below)

Product is BFR/PVC Free Yes No

Flame Retardants Used in Motherboard

Part	Flame Retardant
Motherboard	BFR

Flame Retardants Used in Mechanical Plastic Parts > 25 grams

Resin Material Name	Marking per ISO 11469:2000, 11469:1996	Flame Retardant Marking per ISO 1043-4 (i.e. FR(16), FR(40), etc.)	Flame Retardant (i.e. TBBPA, triaryl phosphate ester, etc.)	List applicable R-Phrase(s) or Hazard Statement(s) per EU Directive 67/548/EEG or 1272/2008
ABS	>ABS<	N/A	N/A	N/A
PC+ABS	>PC+ABS FR(40)<	FR(40)	Organo Phosphate	R43

Mercury Information

Number of bulbs	Average per bulb
0	N/A

India RoHS Declaration

DECLARATION OF CONFORMITY WITH GAZETTE OF INDIA: EXTRAORDINARY, E-WASTE (MANAGEMENT & HANDLING) RULES (INDIA ROHS)

Manufacturer Name and Address:

* **Waste Handling.** Local regulations should be observed when disposing of this product due to the presence of the materials and substances as listed above.

Product Safety, EMC & Environmental Datasheet

Revision A11

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Dell Inc.
One Dell Way
Round Rock, Texas, USA
78682

Dell Inc. declares that all Dell branded products have been designed and manufactured in compliance with E-Waste (Management & Handling) Rules² on the reduction in the use of hazardous materials in the manufacture of electrical and electronic equipment and their maximum allowed concentrations by weight in the homogenous material (except for the exemptions listed in schedule II).

Substance	Concentration
Lead	0.1%
Mercury	0.1%
PBB (Polybrominated Biphenyls)	0.1%
PBDE (Polybrominated Diphenyl Ethers)	0.1%
Hexavalent Chromium	0.1%
Cadmium	0.01%

Compliance has been verified via internal design controls, supplier declarations, and/or analytical test data. The undersigned below possesses the complete technical documentation relating to the declaration of compliance.

For additional information please visit:

- Restricted Material Compliance www.dell.com/environmental_information
- Products MSDS (Material Safety Data Sheets):

Batteries: [Battery MSDS Documentation and Declaration](#)

Printer Toner and Ink: [MSDS Documentation](#)

IX. PACKAGING

Information on Dell's sustainable packaging effort available [here](#).

Additional materials restricted in Packaging as per Dell's Restricted Material Guidance document found [here](#).

Packaging Materials	Total Weight of each Material type, (kg)	% of Post-Consumer Recycled Content (PCR)		
		APJ region	DAO region	EMEA region
Corrugated Fiberboard	1.4	N/A	35% min	N/A
EPE	0.14	N/A	0	N/A

X. BATTERIES

Below is a listing of batteries that could be present in the product:

Battery Description – Batteries	Battery Type	Battery Weight (kg)
CR-2032 coin cell	Lithium	0.0032(MITSUBISHI)
CR-2032 coin cell	Lithium	0.0029(SHUNWO)
CR-2032 coin cell	Lithium	0.0029(JHT)

² E-Waste (Management & Handling) Rules 2011, by the Ministry of Environment & Forests, Government of India dated May 12, 2011.



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XI. DESIGN FOR ENVIRONMENT

Dell systems are, when applicable, designed for easy assembly, disassembly, and servicing.
For more information on product Recyclability please visit www.dell.com/environmental_information

XII. RECYCLING/ END-OF-LIFE SERVICE INFORMATION

Take back and recycling services are offered for this product in certain countries. If you want to dispose of system components, contact Dell for instructions by emailing recycling_emea@dell.com or visit www.dell.com/recyclingworldwide and select the relevant country.

XIII. HELPFUL LINKS

- **Environmental Policy**
<http://i.dell.com/sites/content/corporate/corp-comm/en/Documents/dell-global-environmental-policy.pdf>
- **Environment Website**
www.dell.com/earth
- **Corporate Sustainability Report**
<http://www.dell.com/learn/us/en/uscorp1/report?c=us&l=en&s=corp&delphi:gr=true>
- **ISO 14001 Certification**
<http://i.dell.com/sites/content/corporate/corp-comm/en/Documents/dell-iso14001-worldwide.pdf>
- **Materials Restricted for Use**
http://www.dell.com/downloads/global/corporate/envirocs/restricted_materials_guid.pdf
- **Chemical Use Policy**
<http://i.dell.com/sites/doccontent/corporate/environment/en/Documents/chemical-use-policy.pdf>
- **Client Energy Calculator**
<http://www.dell.com/content/topics/topic.aspx/global/products/landing/en/client-energy-calculator?c=us&l=en>
- **Product Carbon Footprint**
http://content.dell.com/us/en/corp/d/corp-comm/environment_carbon_footprint_products
- **RoHS Compliance**
www.dell.com/rohsinfo
- **REACH Compliance**
www.dell.com/REACH
- **Recycling Information**
www.dell.com/recycling
- **Supplier Responsibility**
<http://content.dell.com/us/en/corp/d/corp-comm/standards-for-suppliers.aspx>

XIV. APPENDIX A: ErP Lot 3 Product (Energy Consumption) Information

The ErP Lot 3 Standard includes requirements for certain product specific information to be provided by the manufacturer. This is applicable to Desktops, Integrated Desktops, Notebooks, Tablets, Slates, Notebook Thin Clients, Desktop Thin Clients, Workstations, Mobile Workstations, Computer Servers, and Small Scale Servers. ErP Lot 3 provides certain exclusions based upon product type, screen size, and/or the amount of power consumed in idle mode. Product energy and acoustic information might be reported for products that are out of scope of ErP Lot 3 for informational purposes only.

Power Supply Model #	Internal or External	Link to efficiency report
AC180ES-01	Internal	https://plugloadsolutions.com/psu_reports/DELL%20INC_AC180ES-01_180W_ECOS%204658_Report.pdf
D180ES-01	Internal	https://plugloadsolutions.com/psu_reports/DELL,%20INC_D180ES-01_180W_ECOS%204629_Report.pdf
H180ES-00	Internal	https://plugloadsolutions.com/psu_reports/DELL_H180ES-00_180W_ECOS%204615_Report.pdf



L180ES-01	Internal	https://plugloadsolutions.com/psu_reports/DELL%20INC_L180ES-01_180W_ECOS%204672_Report.pdf
D180EPS-01	Internal	https://plugloadsolutions.com/psu_reports/DELL,%20INC_D180EPS-01_180W_ECOS%204628_Report.pdf
L180EPS-01	Internal	https://plugloadsolutions.com/psu_reports/DELL%20INC_L180EPS-01_180W_ECOS%204671_Report.pdf
HU180ES-01	Internal	https://plugloadsolutions.com/psu_reports/DELL%20INC_(DELL)HU180ES-01_180W_ECOS%204653_Report.pdf

* **Energy Consumption** results are based solely upon the laboratory testing of the **System Configuration** listed above. Energy consumption is tested at 230 Volts / 50 Hz.

Energy Consumption*

Energy efficiency benefits the environment and lowers the total cost of equipment ownership by reducing power consumption. Dell offers energy calculators that help estimate power needs, potential emissions avoidance and potential cost savings. Click [here](#) for Dell's Client Energy Savings Calculator, Data Center Capacity Planner, and Monitor Power Savings Calculator. Information on Energy Efficiency is available [here](#).

Energy Consumption for OptiPlex 7050 SFF:

Category	Category B	Category D
Processor Speed in GHz	3.7	3.2
Number of Cores	2	4
Total Installed System Memory in GB	4	4
Storage	Select	Select
WOL enabled in "BIOS" Mode	No	No
WOL enabled in "UEFI" Mode	No	No
As Tested: Lowest Power State	0.35	0.35
As Tested: Full/WOL Disabled	0.35	0.35
As Tested: Full/WOL Enabled	1.25	1.25
As Tested: Full/WOL Disabled	1.25	1.25
As Tested: Full/WOL Enabled	23.10	22.15
As Tested: Idle/Off	0	150.00
Base TEC Limit (kWh)	122	38.00
TEC Address Limit (kWh)	0.00	168.00
Base + Address TEC Limit (kWh)	0.00	182.41
Results TEC	0.00	182.41

Energy Consumption for OptiPlex 5050 SFF:



Category		Category B		Category D
Processor Speed in GHz	0	3.7	0	3.2
Number of Cores	0	7	0	4
Total Installed System Memory in GB	0	4	0	0
Graphics	Select	Select	Select	Select
WOL enabled in "Sleep" Mode	No	No	No	No
WOL enabled in "Off" Mode	No	No	No	No
As Tested: Lowest Power State		6.76		0.36
As Tested: PoS4/WOL Disabled		6.26		0.36
As Tested: PoS4/WOL Enabled				
As Tested: PoS4/WOL Disabled		1.21		1.13
As Tested: PoS4/WOL Enabled				
As Tested: PoS4/WOL		23.25		22.91
Base TRC Limit (AWh)	0	112	0	152.00
TRC Address Limit (AWh)	0.00	40.00	0.00	35.00
Base + Address TRC Limit (AWh)	0.00	152.00	0.00	187.00
Results TRC	0.00	62.43	0.00	81.40

Energy Consumption for OptiPlex 3050 SFF:

Category		Category B		Category D
Processor Speed in GHz	0	3.7	0	3.2
Number of Cores	0	7	0	4
Total Installed System Memory in GB	0	4	0	0
Graphics	Select	Select	Select	Select
WOL enabled in "Sleep" Mode	No	No	No	No
WOL enabled in "Off" Mode	No	No	No	No
As Tested: Lowest Power State		0.25		0.26
As Tested: PoS4/WOL Disabled		0.26		0.26
As Tested: PoS4/WOL Enabled				
As Tested: PoS4/WOL Disabled		1.13		1.13
As Tested: PoS4/WOL Enabled				
As Tested: PoS4/WOL		11.43		22.43
Base TRC Limit (AWh)	0	112	0	152.00
TRC Address Limit (AWh)	0.00	40.00	0.00	35.00
Base + Address TRC Limit (AWh)	0.00	152.00	0.00	187.00
Results TRC	0.00	91.82	0.00	60.81

* This document is informational only and reflects laboratory performance. Your product may perform differently, depending on the software, components and peripherals you ordered. Accordingly, the customer should not rely upon this information in making decisions about electrical tolerances or otherwise. No warranty as to accuracy or completeness is expressed or implied. For more details visit www.dell.com/environmental_information

Declared Noise Emissions in accordance with ISO 9296 (tested in accordance with ISO 7779)

Computers Category B for OptiPlex 7050 SFF:

Service Level	Sound Power ($L_{W,dst}$, bels) (1 bel=10 decibels, re 10^{-12} Watts)	Sound Pressure Bystander Position ($L_{p,dst}$, decibels) (re 2×10^{-5} Pa)
Hard Drive Accessing	3.56	21.3
Optical Drive Accessing	4.38	33.8
Idle	3.10	19.1



Computers Category B for OptiPlex 5050 SFF:

Service Level	Sound Power (L_{WAd} , bels) (1 bel=10 decibels, re 10^{-12} Watts)	Sound Pressure Bystander Position (L_{pAtr} , decibels) (re 2×10^{-5} Pa)
Hard Drive Accessing	3.15	19.9
Optical Drive Accessing	4.17	29.9
Idle	2.96	19.3

Computers Category D for OptiPlex 7050 SFF/OptiPlex 5050 SFF

Service Level	Sound Power (L_{WAd} , bels) (1 bel=10 decibels, re 10^{-12} Watts)	Sound Pressure Bystander Position (L_{pAtr} , decibels) (re 2×10^{-5} Pa)
Hard Drive Accessing	3.04	21.2
Optical Drive Accessing	4.22	29.7
Idle	2.99	21.0

Computers Category B for OptiPlex 3050 SFF:

Service Level	Sound Power (L_{WAd} , bels) (1 bel=10 decibels, re 10^{-12} Watts)	Sound Pressure Bystander Position (L_{pAtr} , decibels) (re 2×10^{-5} Pa)
Hard Drive Accessing	3.38	22.0
Optical Drive Accessing	4.26	30.2
Idle	3.28	20.0

Computers Category D for OptiPlex 3050 SFF:

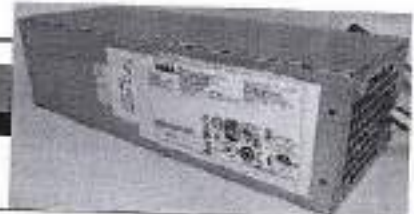
Service Level	Sound Power (L_{WAd} , bels) (1 bel=10 decibels, re 10^{-12} Watts)	Sound Pressure Bystander Position (L_{pAtr} , decibels) (re 2×10^{-5} Pa)
Hard Drive Accessing	3.22	24.4
Optical Drive Accessing	4.54	39.9
Idle	3.19	24.1

XV. APPENDIX B: ErP Lot 26 Network Standby (Energy Consumption) Information

The ErP Lot 26 Standard includes Network Standby power requirements to be provided by the manufacturer. This is applicable to multiple product categories. If no information is reported, it's assumed it is out of scope of ErP Lot 26.

80 PLUS Verification and Testing Report

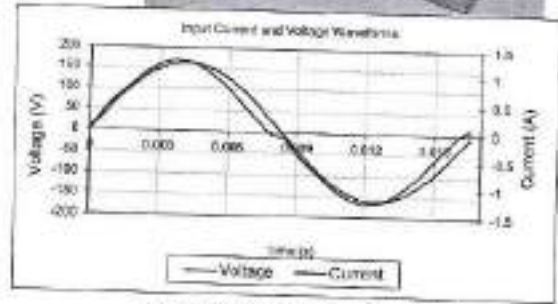
TYPICAL EFFICIENCY (50% Load):	92.23%
AVERAGE EFFICIENCY:	91.21%
80 PLUS COMPLIANT:	YES



Eggs ID #	4871
Manufacturer	ORLI, Inc.
Model Number	L15CEPS-03
Serial Number	NA
Year	2015
Type	SFF
Test Date	3/15/16

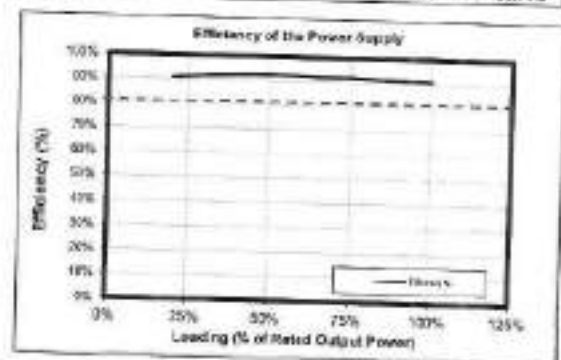
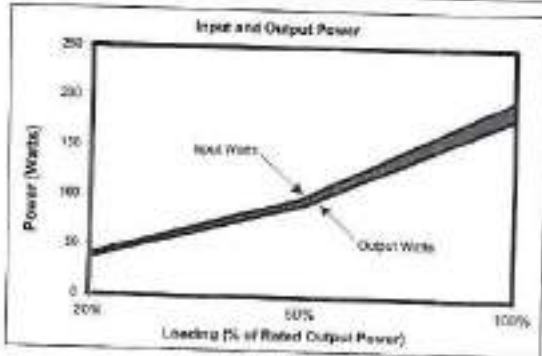
Rated Specifications	Value	Units
Input Voltage	100-240	Volts
Input Current	3	Amperes
Input Frequency	50-60	Hz
Rated Output Power	180	Watts

Note: All measurements were taken with input voltage at 115 V nominal at 60 Hz.



Input AC Current Waveform (THD = 1.22% @50% Load)

Line A	PF	I _{in} (A)	Load (%)	Input Watts	DC Terminal Voltage (V) / DC Load Current (A)		Output Watts	Efficiency %
					12V (cumulative of 12V1, 12V2, etc.)			
0.21	0.87	17.31%	10%	25.52	12.13/1.3		15.22	81.26%
0.37	0.95	10.71%	20%	40.17	12.15/3		30.42	95.66%
1.07	0.99	7.72%	90%	98.00	12.05/7.52		87.04	92.23%
1.75	0.99	12.48%	100%	140.33	12.04/15.02		119.33	80.74%



These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. <http://www.80plus.org/>



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Fornecedor / Supplier **DELL COMPUTADORES DO BRASIL LTDA**
(100120-728) Av. Emancipação, 5000
13184-864 - 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**

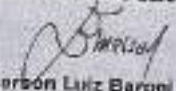
Normas aplicáveis / Applicable standards **IEC 60950-1:2005 (2nd Edition); Am 1:2009, Am 2:2013, CISPR 22:2008, CISPR 24:2010+A1:2015, IEC 61000-3-2:2014, IEC 61000-3-3:2008, IEC 61000-4-2:2008, IEC 61000-4-3:2008+A1:2007+A2:2010, IEC 61000-4-4:2008+A1:2010, IEC 61000-4-6:2004, IEC 61003-4-6:2013, IEC 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 Ensaio / Assessment and Test Report # **BR2263, Vol. 1, Sec. 7D**

Concessão Para / Concession for **Colocar 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 / Expiry 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
(854965-008) **Dell Inc.**
One Dell Way
Mail Stop PS4-30
Round Rock, TX 78682

Fabricante / Manufacture
(100120-728) **DELL COMPUTADORES DO BRASIL LTDA**
AV. EMANIPAÇÃO, 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

**Organismo de Certificação /
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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 (decorative 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	IP: 3.0A, 100-240Vac, 50-60Hz C.I.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
All Power supply for building-in (PSU)	Bestec (DELL)	B180AS-00	IP: 3.0A, 100-240Vac, 50-60Hz C.I.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
All Power supply for building-in (PSU)	Chicony (DELL)	H180AS-00	IP: 3A, 100-240Vac, 50-60Hz C.I.I. DC outputs: 12A +12VADC, 14A +12VDC, 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
All Power supply for building-in (PSU)	Delta (DELL)	D180ES-00	IP: 3.0A, 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
All Power supply for building-in (PSU)	Delta (DELL)	D180EPS-00	IP: 3.0A, 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

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Alt. Power supply for building-in (PSU)	Delta (DELL)	D240EPM-00	IP: 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	IP: 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	IP: 3A, 100-240Vac, 50-60Hz C.I.I. DC outputs: +12VA, 12A; +12VB, 14A, +12VSB 2.5A. DUTPUT 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	IP: 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	IP: 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	IP: 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 Hurmkey (DELL)	HU180AS-00	IP: 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	IP: 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 (CELL)	AC180AS-01, AC180ES-01	IP: 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	IP: 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	IP: 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	IP: 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	IP: 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	IP: 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	HDS7225rnrVLATrn	Max. 1.6/2.0A, 5/12Vdc	EN 60950-1 2006/A2, UL 60950-1	TUV, UL
	Lite-On	CF1-CPxxxxxxx	2.0A max. 5Vdc		CB by TUV, UL
	LITE-ON	LMS- x0.6Mxxxx (x can be any alphanumeric or blank)	3.3Vdc, 2.0A max.		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.	ORW-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
- Front bezel for each source	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
	Interchangeable	Interchangeable	Min. V-1,	UL 94	UL
	CPU Fan	AVC f)	DSC6025R12LV (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
	Delta f)	QUR0812SH	12Vdc, max. 0.5 A, 52.83 CFM min.	EN 60950-1: 2006/A2, UL507	VOE, UL
	Foxconn f)	PVA060G12G	12Vdc, max. 0.65 A, 59 CFM min.	EN 60950-1: 2006/A2, UL507	TUV, UL

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Certification Body**

UL do Brasil Certificações

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Shenzhen Dongweifeng 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 - WWW, 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)	AUB0712V11	12Vdc, max. 0.56 A, 43.66 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
All CPU Fan	AVC 3)	12Vdc, max. 1.0 A, 22 CFM min.	EN 60950-1: 2006/A2: 2013 UL 507	TUV, UL
Delta 3)	BUC1012SJ-00XXXXX (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 - WWW, 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)	PVB120G12-I-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) Inter-changeable (3)	MF80251V2- Q02 (Z stands for 30 Characters. Each Character stands for one of the following signs: 0-9, A-Z, (,), -, /, - or blank for marketing purpose only.) Inter-changeable	12Vdc, max. 0.66 A, 20.7 CFM min. 12Vdc, max. 1.2 A, 20.47 CFM min.	EN 60950-1: 2006/A2: 2013 UL 507 EN 60950-1: 2006/A2: 2013 UL 507	TUV, UL 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
All Front system Fan (optional)	Delta	AUB0812HHD	12Vdc, max. 0.4 A, 46.31 CFM min.	EN 60950-1: 2006/A2, UL507	VDE, UL
	Foxconn	PVA030F12R	12Vdc, max. 0.36 A, 40 CFM min.	EN 60950-1: 2006/A2, UL507	TUV, UL
All 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.) Interchangeable	12Vdc, max. 0.219A, 46.8 CFM min. 12Vdc, max. 0.6 A, 40 CFM min.	EN 60950-1: 2006/A2, UL507 EN 60950-1: 2006/A2, UL507	TUV, UL Certified by Nemko or other cert. body, UL
PCB	Interchangeable	Inter-changeable	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 1.0mA	UL 1542	UL(MH12149) UL(MH12210)

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All RTC Battery (Lithium type)	Shun Wo Jhin 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 1842	UL(MH25881) UL(MH48406)
For MB1, MB2 and MB3					
PTC Polyswitch (FUS) provided for USB ports 4)	Polytronics Technology Corp.	SPR-P200T	6Vdc, 2.0A	EN 60730-1 UL 1434	TUV, UL
All PTC Polyswitch (FUS) provided for USB ports 4)	Littelfuse Inc.	0805L200, 0805L200X4X5, 0805L200SLX4X5, 0805L200THX4X5 (X4 stands for A to Z or blank; X5 stands for HF or Mark), 0805L200YYZZZZ Z (Y and Z stands for A to Z, 0 to 9 or blank), 0805L200ULTH XYYYYY (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	SMD0605P300SL 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	0605L150SLX4X5 (X4 stands for A to Z or blank, X5 stands for HF or blank)	6Vdc, 1.5A	EN 60730-1, UL 1434	TUV, UL
	Bourns, Inc	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) 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)	Litefuse 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). 0805L110JLXX YYYYY (X and Y stands for A to Z, 0 to 9 or blank)	5Vdc, 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	P15USB2546ZH EX SLGC55548VTR	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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	Navaton	NCT3855Y	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 TUVPS, UL
For MB4					
PTC Polyswitch (PV2) provided for HDMI ports 4)	Polytronics Technology Corp Littelfuse Inc Bourns, 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
		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 Bourns, Inc	SPR-P110	6Vdc, 1.1A	EN 60730-1, UL 1434	TUV, UL
		0806L110DULXX YYYYY (X and Y stands for A to Z, 0 to 9 or blank)	6Vdc, 1.1A	EN 60730-1, UL 1434	TUV, UL
		MF-PSML110	6Vdc, 1.1A	EN 60730-1, UL 1434	TUV, UL
Protective IC (U11, U149, U153, U151), (U150, U152) provided for USB ports	DIODES RICHTEK	AP22811AW5-7	Input Voltage: 2.7-6.5Vdc 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	CB by Demko, UL
		R19742CGJ5F		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: 2.7-6.5Vdc 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	P15USB2546Z1 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
AIL 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	SLGC55648VTR NCT3965Y	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 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 Liteluse Inc	SPR-P150 0805L150LJXX YYYYY (X and Y stands for A to Z, 0 to 9 or blank) MF-PSML150	6Vdc, 1.5A 5Vdc, 1.5A 6Vdc, 1.5A	EN 60730-1, UL 1434 EN 60730-1, UL 1434 EN 60730-1, UL 1434	TUV, UL TUV, UL TUV, UL
	Bourns, Inc				
Polyswitch (FV3) and (FV1) provided for Display ports, (F2) provided for PS2 ports 4)	Polytronics Technology Corp Liteluse Inc	SPR-P110 0805L110JLXX YYYYY (X and Y stands for A to Z, 0 to 9 or blank) MF-PSML110	6Vdc, 1.1A 6Vdc, 1.1A 6Vdc, 1.1A	EN 60730-1, UL 1434 EN 60730-1, UL 1434 EN 60730-1, UL 1434	TUV, UL TUV, UL TUV, UL
	Bourns, Inc				
Protective IC (U1, U149, U148, U153, U151, U150) 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/56mohm (typ.) N-MOSFET Switch	IEC 60950-1 (ed.2); am1; am2	CB by Demko, UL
Protective IC (USB_CHARGING) provided for USB port	PERICOM	PI5J5B2546ZH EX	Input Voltage: 4.5 - 5.6 Vdc, Continuous Rating: 30 mA to 2.5 A, Current Limit: 100 mA to 3.16 A	IEC 60950-1 (ed.2); am1; am2	CB by Demko, UL
	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
	SILEGO	SLGC55648VTR	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 (ed.2); am1; am2	CB by Demko, UL
	Nuvoton	NCT3965Y	Input Voltage: 4.5 - 5.5 Vdc, Input current: 2.5A	IEC 60950-1 (ed.2); am1; am2	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
		D805L150ULXX 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
		D805L110ULXX 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	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
	RIGHTTEK	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

Supplementary information:

1) Provided evidence ensures the agreed level of compliance. See OD-CB203B

- 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:

Titulo / Title	Numero / Number	Revisão / Revision	Data emissão / Issuing Date	Data Realização / Performance Date
<<Dados da Auditoria / Audit data >> (Fornecedor & Fabricante / Supplier & Manufacture) Factory: DELL COMPUTADORES DO BRASIL LTDA	BR2283	0	2016-03-02	N/A
Relatório de ensaio emitido por / Test report issued by Nemko Taiwan	285383	0	2015-05-12	N/A
Relatório de ensaio emitido por / Test report issued by Nemko Taiwan	305348	0	2016-09-17	N/A
Relatório de ensaio emitido por / Test report issued by Nemko Taiwan	317002	0	2016-10-06	N/A
Relatório de ensaio emitido por / Test report issued by International Standards Laboratory	ISL-15LE172CE	0	2015-06-02	N/A
Relatório de ensaio emitido por / Test report issued by International Standards Laboratory	ISL-15LE172FB	0	2015-06-02	N/A
Relatório de ensaio emitido por / Test report issued by International Standards Laboratory	ISL-16LE446CE	0	2016-10-11	N/A
Relatório de ensaio emitido por / Test report issued by International Standards Laboratory	ISL-16LE446FB	0	2016-10-11	N/A
Relatório de ensaio emitido por / Test report issued by International Standards Laboratory	ISL-15LS0110S	0	2015-07-06	N/A
Relatório de ensaio emitido por / Test report issued by International Standards Laboratory	ISL-18LS0030S	0	2016-10-28	N/A
<<Software / Software >>	N/A			
<<Manual do usuário / User's manual >>	N/A			

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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 / Update of validity, according to ordinance 407-2015
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 plus 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 erro de digitação 4. Corrigir a tabela de diferenças de layout da 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 / Initial Issue
<p>A última revisão substitui e cancela as anteriores <i>The last review cancel and substitutes the previous ones</i></p>	

Organismo de Certificação / Certification Body **UL do Brasil Certificações**
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Descrição do Serviço

Serviço básico de hardware

Visão geral dos termos e condições

Este contrato ("Contrato" ou "Descrição do Serviço") é firmado entre o cliente ("você" ou "Cliente") e a Dell. Ao adquirir da Dell tais Serviços (conforme aqui definidos), o Cliente concorda em estar sujeito a todos os termos e condições estabelecidos neste documento. O Cliente concorda que a renovação, modificação, ampliação ou continuidade da utilização dos Serviços além do período inicial estão sujeitas à Descrição do Serviço existente na época, disponível para análise em <http://www.dell.com/servicecontracts>.

- **Clientes diretos e usuários finais que adquirem Serviços Dell de um revendedor:** este Serviço é fornecido juntamente com o contrato principal de serviços à parte do Cliente com a Dell ou, na ausência de tal contrato, o Contrato Principal de Serviços ao Cliente ("CMSA") da Dell, que pode ser obtido em: www.dell.com/servicecontracts.
- **Parceiros certificados PartnerDirect ou solicitantes de registro e revendedores autorizados:** este Serviço é fornecido para revenda pelos revendedores autorizados da Dell juntamente com os Termos e Condições de Vendas da Dell para Pessoas Físicas ou Jurídicas que Compram para Revenda, que pode ser obtido em: <http://www.dell.com/servicecontracts>.

Visão geral do Serviço

A Dell e/ou seu Revendedor autorizado Dell tem o prazer de oferecer o Serviço Básico de Hardware (o "Serviço" ou "Básico") de acordo com o nível de resposta do serviço aplicável identificado abaixo. O nível de resposta do serviço aplicável do Cliente é identificado na confirmação do pedido, na fatura ou no recibo do Cliente para os Produtos Suportados. Entre os níveis de resposta de serviço estão:

- Devolução para conserto – Serviço de reparo (Balcão ou correios)
- Serviço restrito a peças
- Serviço no Local no Próximo Dia Útil (NBD)
- Serviço no local em três dias úteis (3BD)
- Serviço de troca avançada

Este Serviço oferece opções de suporte técnico (telefone, Internet, etc.) e peças de reposição e os serviços manuais relacionados para o conserto e/ou substituição de defeitos na manufatura que venham a ocorrer dentro do período de garantia do hardware aplicável aos Produtos Suportados do Cliente ("Conserto Qualificado").

Produtos suportados: os Serviços Básicos de Hardware estão disponíveis para Dell Optiplex™, Latitude™, Dell Precision™, Vostro™, impressoras Dell, PowerEdge™, PowerEdge SC™, PowerVault™, PowerConnect™, Dell EqualLogic™ e Sistemas de armazenamento Dell | EMC™ adquiridos com uma configuração padronizada.

Cada Produto Suportado traz um número de série (a "Etiqueta de Serviço"). Um contrato de serviço básico de hardware em separado deve ser adquirido pelo Cliente para cada Produto Suportado. Por exemplo, uma impressora adquirida com um notebook não é incluída no contrato de serviço do notebook: a impressora e o notebook terão seus contratos de Serviço próprios.

Leia esta Descrição do Serviço cuidadosamente e observe que a Dell e/ou o revendedor autorizado Dell reserva-se o direito de, a qualquer momento, alterar ou modificar qualquer termo ou condição estabelecidos nesta Descrição do Serviço.

O SERVIÇO BÁSICO DE HARDWARE CONSISTE EM: 1) ASSISTÊNCIA TÉCNICA E SUPORTE, E 2) PEÇAS DE REPOSIÇÃO E SERVIÇOS MANUAIS RELACIONADOS.

1. ASSISTÊNCIA TÉCNICA E SUPORTE Todas as ofertas de Serviço básico de hardware, exceto o Serviço restrito a



peças, têm o direito à seguinte assistência técnica e suporte

- Serviços de suporte telefônico, que oferecem a solução de problemas do hardware durante os horários comerciais locais, exceto em feriados nacionais.
- Serviço de suporte técnico 24 horas por dia, 7 dias por semana, através do chat on-line e e-mail
- Conserto e resolução de defeitos em materiais e na produção de acordo com o nível de resposta do serviço adquirido pelo Cliente.
- Nota: as ofertas de serviço podem variar de acordo com a região geográfica. Para os produtos suportados adquiridos de revendedores autorizados Dell, o Cliente pode entrar em contato com a Dell ou com o revendedor autorizado Dell para identificar o nível de serviço aplicável para os Produtos Suportados.

Contato com a Dell para o Serviço

Resolução de serviço técnico de baixa urgência: para problemas de baixa urgência, você pode entrar em contato com o serviço de suporte técnico Dell através do e-mail ou do chat on-line instantâneo disponível em: www.suporte.dell.com.br.

Resolução do serviço de suporte técnico por telefone: os analistas do Serviço básico de hardware ("Analistas Dell") estão disponíveis por telefone durante os horários comerciais locais de segunda à sexta-feira, exceto em feriados nacionais. Os números de suporte por telefone estão disponíveis em: www.suporte.dell.com.br. Antes de entrar em contato com a Dell, tenha à mão os seguintes itens referentes ao Produto Suportado:

- 1) O número da etiqueta de serviço, 2) o código de serviço expresso e 3) o número do modelo. Em geral, o número da etiqueta de serviço e o código de serviço expresso ficam no rótulo afixado ao Produto Suportado.
- A descrição do problema e quaisquer etapas de solução de problemas realizadas antes da ligação ao serviço técnico.
- O número do caso, se já houver sido registrado em um contato anterior com a equipe de Serviços Dell.
- A versão atual do sistema operacional.
- O acesso físico ao Produto Suportado durante o processo da solução de problemas.

Entre em contato com a Dell ou o revendedor autorizado Dell por telefone. Durante a ligação, o analista da Dell pedirá o número da etiqueta do serviço e o código de serviço expresso. O analista da Dell também verificará o nível de serviço e quaisquer vencimentos de serviços do Produto Suportado. Por fim, o analista da Dell iniciará uma série de etapas de solução de problemas para auxiliar no diagnóstico do problema.

- Ao ser solicitado, o Cliente deverá identificar as mensagens de erro recebidas e quando elas ocorrem.
- O Cliente deve estar preparado para informar ao analista da Dell as etapas que já foram realizadas para resolver o problema antes do contato com o suporte técnico Dell.
- O analista da Dell poderá pedir que o Cliente abra o compartimento do produto, remova o hardware, manuseie o software ou realize outras ações de diagnóstico. A impossibilidade em assistir ou permitir o diagnóstico remoto pode ocasionar uma taxa de serviço por serviços de diagnóstico no local.
- Se o Cliente não desejar, ou não tiver condições de realizar as etapas iniciais de solução de problemas por telefone com o analista da Dell, o Cliente poderá atualizar seu Serviço Básico de Hardware para o serviço de resolução "ProSupport Dell com diagnóstico no local" da Dell ou do revendedor autorizado Dell, se disponível.
- Caso o produto esteja fora de sua garantia de hardware aplicável, uma taxa poderá ser cobrada pelo diagnóstico e solução.

2. PEÇAS DE REPOSIÇÃO E SERVIÇOS MANUAIS RELACIONADOS.

Independente do nível de resposta do serviço adquirido, algumas peças foram desenvolvidas especificamente para a fácil remoção por parte do Cliente; essas peças são chamadas de Substituível pelo Cliente (CSR). Caso, durante o diagnóstico, o analista da Dell concluir que o conserto pode ser realizado com uma peça CSR, a Dell enviará a peça CSR diretamente ao Cliente. As peças CSR pertencem a duas categorias:

- **Peças CSR opcionais:** podem ser substituídas pelo Cliente. Dependendo do tipo de serviço que foi adquirido com o Produto Suportado, a Dell pode solicitar que um técnico se desloque ao local para substituir as peças.
- **Peças CSR obrigatórias:** estas são as peças que devem ser substituídas pelo próprio Cliente. A Dell não fornece o serviço de instalação delas. Se o Cliente solicitar que a Dell e/ou o revendedor autorizado Dell substitua estas peças, uma taxa será cobrada do Cliente por este serviço.



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O método de frete utilizado para o envio da peça CSR baseia-se no nível de serviço adquirido pelo Cliente.

- As peças de reposição para Clientes com o Serviço no Próximo Dia Útil serão enviadas através do método de frete "próximo dia útil".
- As peças de reposição para Clientes com o Serviço em Três Dias Úteis serão enviadas através do serviço de frete "três dias úteis".
- As peças de reposição para clientes com o Serviço de Devolução para Conserto serão enviadas através do serviço de frete terrestre.

Após a conclusão do analista da Dell de que há a necessidade de substituir uma peça ou recolocá-la no sistema, o Cliente será informado das etapas a serem realizadas. Dependendo do nível de serviço adquirido pelo Cliente, as seguintes opções estarão disponíveis:

A. Devolução para Conserto

Há três tipos de serviço de Devolução para Conserto: Serviço de Entrega Via Correio, Serviço de Entrega e Serviço de Coleta e Devolução. As opções de serviço de Devolução para Conserto variam de acordo com o tipo de serviço adquirido e a localização geográfica do Cliente.

Devolução para Conserto – Serviço de Reparo (Balcão no centro de reparos ou correios)

A Devolução para Conserto pelo Serviço de Entrega é solicitada através de ligação telefônica ao suporte técnico da Dell, conforme descrito acima. Durante o processo de solução de problemas por telefone, o analista da Dell analisará se o problema é devido a uma falha de hardware. Caso positivo, então será solicitado ao Cliente que entregue o Produto Suportado no centro de reparos em SP ou nas agências de correios, para demais cidades. Os horários padrões de serviço são os horários comerciais locais, disponíveis cinco dias por semana, exceto em feriados nacionais.

O Conserto Qualificado será realizado de acordo com o tempo de resposta identificado pela confirmação do pedido, fatura ou recibo do Cliente. Assim que o Produto Suportado for consertado, será solicitado que o Cliente tome as medidas necessárias para resgatar o produto no centro de reparos ou, esteja disponível para recebê-lo através dos correios em sua residência. Os contratos de nível de serviço podem variar conforme o país e a cidade.

B. Serviço Restrito a Peças

A Dell disponibilizará peças de reposição aos Clientes que têm o Serviço Restrito a Peças como troca para auxiliar o Conserto Qualificado. A Dell poderá proceder a troca de unidades inteiras de hardware de terceiros em vez de peças individuais. A Dell inclui uma embalagem de envio pré-pago com cada peça de reposição para permitir que o Cliente envie a peça original com defeito à Dell. O Serviço Restrito a Peças não inclui o serviço de suporte técnico.

C. Serviço no Local no Próximo Dia Útil e Serviço no Local em Três Dias Úteis

Durante a solução de problemas por telefone, o analista da Dell avaliará se um técnico de manutenção deverá ser enviado ao local para dar suporte ao Conserto Qualificado. No Serviço no Local no Próximo Dia Útil, o técnico chega ao local normalmente no próximo dia útil. No Serviço no Local em Três Dias Úteis, o técnico chega ao local normalmente dentro de três dias úteis. Há termos e restrições específicas a este Serviço:

- Os técnicos ficam à disposição de segunda à sexta-feira, exceto em feriados nacionais, das 8h às 18h, horário local.
- Ligações recebidas ou solicitações feitas após às 17h, horário local, exigirão um dia extra para a chegada do técnico.
- Caso sejam necessárias peças/recursos adicionais após a chegada do técnico ao local, o trabalho poderá ser temporariamente suspenso. O serviço será retomado quando essas peças/recursos estiverem disponíveis.

Visita de serviço perdida: se o Cliente ou o representante autorizado do Cliente não estiver no local quando o técnico chegar, ele não poderá concluir o serviço necessário. Se possível, o técnico deixará um cartão para informar ao Cliente que ele esteve no local. Caso isso ocorra, o Cliente poderá receber uma cobrança adicional em função de uma ligação de serviço posterior.

D. Serviço de Troca Avançada

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Alguns produtos suportados podem ser adquiridos com o Serviço de Troca Avançada para dar suporte ao Conserto Qualificado. Se o analista da Dell concluir que o Produto Suportado necessita de um Conserto Qualificado, a Dell poderá optar por enviar um produto de substituição ao local de trabalho do Cliente. O produto de substituição será enviado por transporte terrestre. Em alguns casos, conforme os critérios da Dell, o técnico poderá também ser enviado para substituir/instalar o produto de substituição. Após o recebimento do produto de substituição, o Cliente deve devolver o Produto Suportado com defeito à Dell, levando o sistema suportado com defeito ao local de devolução determinado da transportadora dentro de três dias úteis. Caso o Cliente não possa devolver o item com defeito, será cobrada uma taxa.

Atualizações de software Dell EqualLogic

O Suporte Básico de Hardware para Produtos Suportados Dell EqualLogic selecionados, incluindo a Série PS Dell EqualLogic, inclui atualizações de software de manutenção e a introdução de novos recursos no firmware e no software central, como SAN HQ, Auto Snapshot Manager e o Host Integration Toolkit (durante o período de serviço indicado na fatura).

Patches e correções de bugs. A Dell lançará, periodicamente, patches e correções de bugs para o Enterprise Storage Software aplicável com a finalidade de manter a compatibilidade de sistemas operacionais e/ou de bancos de dados, e qualquer correção de erros, solução alternativa e/ou patch necessários para manter a conformidade com a documentação para o Enterprise Storage Software aplicável.

Novas versões. As novas versões ou releases do Enterprise Storage Software aplicável geralmente são disponibilizadas pela Dell sem cobrança adicional aos licenciados pelo Enterprise Storage Software que está instalado em um Produto Suportado coberto por uma garantia limitada Dell ou um contrato de serviço ou manutenção anual. Geralmente, as novas versões são releases que contêm patches e correções de bugs, alterações que refletem uma expansão ou extensão dos recursos existentes e alterações que incluem novas características, funções e recursos substanciais.

As Taxas de Renovação do Suporte Dell EqualLogic estão disponíveis em: <http://www.dell.com/ProSupport/EQLpricelist>

Limitações na cobertura de hardware:

- Unidades de disco rígido SATA em sistemas PowerEdge™, PowerEdge SC™ e PowerVault™ têm 1 ano de garantia de hardware limitada ou a extensão da garantia de hardware limitada, a que for menor, para o sistema Dell com o qual a unidade de disco rígido SATA é enviada.
- As baterias de computadores portáteis têm 1 ano de garantia de hardware limitada ou a extensão da garantia de hardware limitada, a que for menor, para o computador Dell com o qual a bateria é enviada.
- Sua bateria PERC5 ou PERC6 pode oferecer até 72 horas de energia reserva para a memória de cache do controlador enquanto é nova. Sob a garantia de hardware limitada de 1 ano, garantimos que a bateria fornecerá no mínimo 24 horas de cobertura de reserva durante o período de garantia de hardware limitada de 1 ano.
- As lâmpadas do projetor têm 90 dias de garantia de hardware limitada.
- A memória tem garantia de hardware limitada vitalícia.
- A garantia de hardware limitada para monitores adquiridos separados de um sistema tem a duração indicada na nota fiscal de remessa. Monitores adquiridos com um sistema têm a cobertura da garantia de hardware limitada do sistema.
- PDAs, fones de ouvido e controles em linha remotos têm 1 ano de garantia de hardware limitada.
- Outros produtos de hardware complementares têm 1 ano de garantia de hardware limitada para novas peças e 90 dias de garantia de hardware limitada para peças recondiçionadas, ou, tanto para peças recondiçionadas quanto novas, o restante da garantia da Dell para o computador no qual essas peças estão instaladas. Nesse caso, prevalecerá a garantia mais longa.

Outras limitações da cobertura de hardware podem se aplicar. Consulte a página <http://www.dell.com/warranty> ou sua fatura ou entre em contato com o suporte técnico da Dell para obter mais detalhes.

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Não estão incluídos nestes serviços:

- Assistência a bancos de dados e software do sistema operacional.
- A substituição de mídia para software que não é da marca Dell (por exemplo, Microsoft® Office) ou para software Dell que não é mais enviado com novos sistemas.
- Assistência na configuração, otimização, instalação, realocação ou atualização.
- Acesso a engenheiros de nível sênior.
- Serviços de despacho de rastreamento rápido.
- Monitoramento essencial do Centro de Comando Global.
- Despacho de emergência ou níveis de gravidade da incidente determinados pelo Cliente.
- Gerenciamento de caso e de encaminhamento.
- Garantia, conserto ou qualquer outro tipo de serviço para produtos de terceiros ou serviço colaborativo com fornecedores/parceiros que não a Dell.
- Acessórios, suprimentos operacionais, periféricos ou peças como bateria, estruturas e tampas.
- Serviços de instalação para peças de Unidades Obrigatoriamente Substituíveis pelo Cliente (CRU).
- Manutenção preventiva.
- Manutenção ou conserto de qualquer dano ou defeito do Produto Suportado que seja puramente estético e que não afete a funcionalidade do dispositivo. A Dell não oferece conserto a desgaste do aparelho para aspectos superficiais como arranhões ou amassados.
- O serviço de manutenção para equipamentos danificados pela utilização incorreta, acidentes ou abuso do Produto Suportado e seus componentes (como, mas não limitado a, uso de tensões incorretas, uso de fusíveis incorretos, uso de dispositivos ou acessórios incompatíveis, ventilação imprópria ou insuficiente ou a não execução das instruções operacionais), modificação, ambiente operacional ou físico inadequado, conservação inadequada pelo Cliente (ou pelo agente do Cliente), movimentação do Produto Suportado, remoção ou alteração de equipamentos ou etiquetas de identificação das peças, assim como falhas causadas por um produto pelo qual a Dell não é responsável.
- Consertos exigidos por problemas de software, ou como resultado de alterações, ajustes ou consertos realizados por outros que não a Dell, seu revendedor autorizado ou prestador de serviços ou pelo Cliente utilizando Peças Substituíveis pelo Cliente (CSR).
- Manutenção por danos causados por fenômenos da natureza como, por exemplo, mas não limitada a: relâmpagos, inundações, tornados, terremotos ou furacões.
- Qualquer tipo de recuperação ou transferência de dados
- Todos os serviços ou as atividades que não estiverem expressamente descritos nesta Descrição do Serviço

Responsabilidades do cliente

- **Autoridade para a concessão de acesso.** O Cliente representa e garante que o Cliente, a Dell e, se aplicável, o revendedor autorizado Dell, poderão acessar e utilizar o Produto Suportado, seus dados, e todos os componentes de software e hardware incluídos nele, com a finalidade de fornecer estes Serviços. Se o Cliente não possuir de antemão esta permissão, é de sua responsabilidade que a obtenha, às custas do próprio, antes de solicitar à Dell a realização destes Serviços.
- **Cooperação com o analista da Dell e com o técnico local.** O Cliente concorda em seguir e cooperar com as seguintes instruções fornecidas pelo analista da Dell.
- **Manter o software e versões atendidas.** O Cliente deve manter o software e o(s) Produto(s) Suportado(s) nos níveis mínimos de versão ou configurações especificados pela Dell conforme estabelecido no PowerLink for Dell | EMC Storage e Dell EqualLogic™, ou conforme especificado em <http://www.suporte.dell.com.br> para os Produtos Suportados. O Cliente deve também garantir a instalação de peças de reposição, patches, atualizações de software ou versões subsequentes, conforme indicado pela Dell, para manter os direitos dos Produtos Suportados a este Serviço.
- **Garantias de terceiros.** O Serviço Básico de Hardware pode necessitar que a Dell acesse hardware ou software não fabricados pela Dell. Algumas garantias do fabricante podem ser anuladas se a Dell ou outro que não seja o fabricante original realizar algum serviço em seus produtos. É responsabilidade do Cliente garantir que a realização do serviço da Dell e/ou de seu revendedor autorizado não afete essas garantias ou, se este for o caso, que o efeito seja aceitável ao Cliente. **A DELL E SEU REVENDEDOR AUTORIZADO NÃO SE RESPONSABILIZAM POR GARANTIAS DE TERCEIROS OU POR QUALQUER EFEITO QUE OS SERVIÇOS DELL POSSAM TER SOBRE ESSAS GARANTIAS.**
- **Obrigações no local.** Para os serviços no local, o Cliente deve proporcionar acesso livre, seguro e suficiente às instalações do Cliente e aos Produtos Suportados. O acesso suficiente inclui amplo espaço de trabalho,

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eletricidade e uma linha telefônica local. Um monitor, um mouse e um teclado devem também ser fornecidos ao técnico se o Produto Suportado não possuir esses itens.

- **Devolução de peças defeituosas.** Se o analista da Dell entregar uma unidade de substituição ao Cliente, o Cliente deverá abdicar do sistema ou componente defeituoso correspondente, a menos que o Cliente tenha adquirido o serviço "Mantenha Seu Disco Rígido – Keep Your Hard Drive" para o sistema afetado, caso no qual o Cliente permanecerá com o respectivo disco rígido.

Se o Cliente não puder cumprir com as responsabilidades e os termos definidos nesta Descrição do Serviço (disponível em: <http://www.dell.com/servicescontracts>), a Dell ou seu revendedor autorizado não terá obrigação de fornecer o Serviço.

Responsabilidade do cliente quanto ao backup de dados

Fazer backup de todos os dados e programas existentes em todos os sistemas afetados antes do fornecimento deste Serviço. **A DELL NÃO TERÁ NENHUMA RESPONSABILIDADE POR PERDAS OU RECUPERAÇÃO DE DADOS OU PROGRAMAS** nem pela inutilização de sistemas decorrente de serviços ou suporte ou de qualquer ato de omissão, incluindo negligência, por parte da Dell ou de um terceiro prestador de serviços.

Informações adicionais importantes

- A. **Atribuição.** A Dell pode designar esse Serviço e/ou Descrição do Serviço a outros prestadores de serviços qualificados.
- B. **Substituição da unidade inteira.** Se o analista concluir que o componente do Produto Suportado defeituoso pode ser desconectado e reconectado facilmente (como um teclado ou monitor), ou se o analista concluir que o Produto Suportado deve ser substituído por inteiro, a Dell se reservará o direito de enviar ao Cliente uma unidade inteira de substituição. Se o técnico da Dell entregar uma unidade de substituição ao Cliente, o Cliente deverá abdicar do sistema ou componente defeituoso correspondente, a menos que o Cliente tenha adquirido o serviço "Mantenha Seu Disco Rígido – Keep Your Hard Drive" para o sistema afetado, caso no qual o Cliente permanecerá com o respectivo disco rígido. Caso o Cliente não abdique da unidade defeituosa, entregando-a ao técnico da Dell, conforme descrito acima, ou se (no caso de uma unidade de substituição não ter sido entregue pessoalmente por um técnico da Dell) a unidade defeituosa não for devolvida dentro de 10 (dez) dias, o Cliente concorda em pagar à Dell pela unidade de substituição mediante o recebimento da fatura. Caso o Cliente não consiga pagar tal fatura dentro de 10 (dez) dias após o recebimento, além dos direitos legais e soluções disponíveis à Dell, a Dell poderá encerrar esta Descrição do Serviço mediante aviso.
- C. **Cancelamento.** Sujeito à política aplicável de devolução de produtos e serviços vigente na localização geográfica do Cliente, o Cliente poderá encerrar esse Serviço dentro de um número definido de dias a partir do recebimento do Produto Suportado, notificando a Dell por escrito sobre o cancelamento. Se o Cliente cancelar este Serviço dentro desse período, a Dell enviará ao Cliente reembolso total descontando os custos dos pedidos de suporte, se houver, feitos sob esta Descrição do Serviço. Contudo, se tal período tiver passado desde o recebimento do Produto Suportado, o Cliente não poderá cancelar esse Serviço, exceto nos termos de leis aplicáveis de um estado/país/distrito, que não podem ser modificados por contrato.

Durante o prazo do Serviço, a Dell poderá cancelá-lo a qualquer momento por qualquer um dos motivos a seguir:

- Se o Cliente deixar de pagar o preço total desse Serviço de acordo com os termos na fatura;
- Se o Cliente se recusar a cooperar com o técnico no local ou analista assistente; ou
- Se o Cliente deixar de observar todos os termos e condições estabelecidos nessa Descrição do Serviço.

Se a Dell cancelar esse Serviço, enviará ao Cliente um aviso de cancelamento por escrito, no endereço indicado na fatura do Cliente. O aviso informará o motivo do cancelamento e a data em que o cancelamento entrará em vigor, que não será inferior a 10 (dez) dias a partir da data em que a Dell enviou o aviso de cancelamento ao Cliente, a menos que uma lei estadual exija outros dispositivos de cancelamento que não possam ser modificados por acordo. **SE A DELL CANCELARESSSE SERVIÇO DE ACORDO COM ESTE PARÁGRAFO, O CLIENTE NÃO TERÁ DIREITO A REEMBOLSO DOS VALORES PAGOS OU DEVIDOS À DELL.**

- D. **Remanejamento.** Este Serviço será prestado nos locais indicados na fatura do Cliente. Este Serviço não está disponível em todos os locais. A obrigação da Dell de prestar os Serviços referentes aos Produtos suportados remanejados está sujeita à disponibilidade do serviço no local em questão, podendo estar sujeita à cobrança de valores adicionais, bem como à inspeção e à recertificação dos Produtos suportados remanejados de acordo com os honorários de consultoria atuais da época, pelo tempo e materiais empregados. O Cliente fornecerá à Dell acesso seguro e suficiente às suas instalações, sem custos para a Dell, para que esta possa cumprir com suas obrigações.

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- E. **Peças estocadas.** A Dell atualmente estoca peças em vários locais do mundo. As peças selecionadas podem não estar estocadas no local mais próximo ao local do cliente. Se uma peça necessária para a substituição do Produto Suportado não estiver disponível em uma fábrica Dell próxima ao local do Cliente e necessitar ser transferida a outra fábrica, os tempos de respostas poderão ser afetados.
- F. **Limitações de suporte.** A Dell não será responsável por qualquer falha ou atraso na realização devido a qualquer causa além de seu controle. O serviço abrange somente os usos para os quais o Produto Suportado foi desenvolvido.
- G. **Propriedade das peças de Serviço.** Todas as peças de serviço da Dell removidas do Produto Suportado e devolvidas à Dell tornam-se propriedade da Dell. Se o Cliente tiver recebido da Dell peças de reposição, deverá pagar à Dell, a preços de varejo da época, os valores referentes às peças de serviço removidas do sistema e mantidas pelo Cliente (exceto unidades de disco rígido provenientes de sistemas cobertos pelo serviço Mantenha Seu Disco Rígido - Keep Your Hard Drive). A Dell usa peças novas e recondiçionadas de diversos fabricantes ao realizar consertos na garantia.
- H. **Serviços opcionais.** Os serviços opcionais (incluindo os serviços de suporte, instalação, consultoria, gerenciados e profissional, assim como de suporte e treinamento no ponto de necessidade) podem estar disponíveis para aquisição na Dell ou variar de acordo com o local do Cliente. Os serviços opcionais podem exigir um contrato separado com a Dell. Na falta de tal contrato, os serviços opcionais são oferecidos de acordo com este Contrato.
- I. **Período e renovação.** O Cliente receberá os Serviços pelo prazo indicado em sua fatura Dell. Antes da expiração do prazo do serviço, o Cliente poderá ampliar o prazo dependendo das opções disponíveis e em vigor na época, de acordo com os procedimentos da Dell existentes na época.
Além disso, a Dell pode, à sua escolha, propor uma renovação dos Serviços, enviando ao Cliente uma fatura referente a tal renovação. O Cliente pode, a seu critério (nos casos permitidos por lei), concordar com a renovação dos Serviços, pagando tal fatura até a data de vencimento. O pagamento das faturas de renovação indicará que o Cliente concordou com a extensão do prazo desse Serviço. Ao renovar este Serviço, o Cliente concorda que os termos existentes na época serão aplicados ao período de renovação. Se o Cliente decidir não pagar a fatura de renovação, os Serviços serão suspensos a partir da data de expiração estabelecida na última fatura paga do Cliente ou na fatura original.
- J. **Transferência do Serviço.** Sujeito às limitações estabelecidas nesta Descrição do Serviço, o Cliente poderá transferir o Serviço a terceiros que tiverem adquirido do Cliente o Produto Suportado em sua totalidade antes da expiração do prazo do serviço em vigor na época, desde que o Cliente seja o comprador original do Produto Suportado e desse Serviço ou desde que o Cliente tenha adquirido o Produto Suportado e esse Serviço de seu proprietário original (ou de um cessionário anterior) e tenha observado todos os procedimentos da transferência. Uma taxa de transferência pode ser aplicada. Não obstante as disposições antecedentes, o Serviço para produtos Dell EqualLogic não são transferíveis. Os clientes que desejam transferir a propriedade dos produtos Dell EqualLogic devem aconselhar a qualquer possível destinatário da transferência a entrar em contato com a Dell pelo e-mail eslx-customer-service@dell.com para discutir a possível transferência da licença, garantia e/ou serviço para o(s) Produto(s) Suportado(s). Qualquer transferência pode exigir termos, condições e taxas adicionais, e a Dell pode, a seu exclusivo critério, recusar-se a permitir qualquer transferência por qualquer motivo ou sem motivo.
Observe que, se o Cliente ou cessionário do Cliente transportar o Produto Suportado para uma localização geográfica onde esse Serviço não esteja disponível ou não esteja disponível pelo mesmo preço pago pelo Cliente, o Cliente poderá não ter a cobertura ou poderá ter que pagar encargos adicionais para manter as mesmas categorias de cobertura de suporte no novo local. Se o Cliente optar pelo não pagamento de tais encargos adicionais, o Serviço será automaticamente alterado de acordo com as categorias de suporte disponíveis no novo local a esse preço ou a um preço inferior, sem reembolsos disponíveis.

PowerEdge™, PowerEdge SC™, PowerVault™, PowerConnect™, Dell EqualLogic™ e os Sistemas de armazenamento Dell | EMC™ são marcas comerciais da Dell Inc.

Handwritten marks and signatures at the bottom right of the page.



Validador de Cobertura de Serviço Global

Resolução & página: AMÉRICA LATINA - PARCELO (PERIÓDICO) PRODUTOR DE CONTEÚDO

Pesquisa de cobertura de serviço

Over Coverage Search
Pesquisa de cobertura de serviço
Proteção:

Filtro aplicado à pesquisa
Localidade de Negociação
País
Estado
Cidade
Código Postal
Processo de instalação em inglês
Ativado
Valor

AMÉRICA LATINA
BRASIL
PARANÁ
SANTO ANTONIO DO SUDOESTE
CÓDIGO DA LINHA DO PRODUTO

Mostrar nível de cobertura
Display under level coverage
Display only best coverage
Apresentar cobertura de vendas
Mostrar nível de cobertura
Filtros aplicados

Artigo DT

CÓDIGO DA LINHA DO PRODUTO

Nome do Item

Resultados de pesquisa - Razão de número total de linhas: 8

CODIGO DO PRODUTO	CODIGO DA LINHA DO PRODUTO	ESTADO DA LOCALIDADE DE NEGOCIAÇÃO	LOCALIDADE	CODIGO DA LOCALIDADE	CODIGO DO PRODUTO	CODIGO DA LINHA DO PRODUTO	PROCESSO DE INSTALACAO EM INGLIS	VALOR	COBERTURA	COBERTURA	COBERTURA	COBERTURA	COBERTURA	COBERTURA	COBERTURA	COBERTURA	COBERTURA	COBERTURA	COBERTURA
BR	PR	PARANÁ	SANTO ANTONIO DO SUDOESTE	DT, CIA, PA, RT, MO, NB, NSA, OP, SP, TA, WS	LAR	DE	1003	SCOPU											
BR	PR	PARANÁ	SANTO ANTONIO DO SUDOESTE	DT, CIA, PA, RT, MO, NB, NSA, OP, SP, TA, WS	LAR	DE	1003	SCOPU											
BR	PR	PARANÁ	SANTO ANTONIO DO SUDOESTE	CCC, CL, CO, DT, CIA, EAC, CO, FO, PA, RT, MO, NB, NSA, OP, SP, ST, SV, TA, WS	LAR	DE	1003	UNY											
BR	PR	PARANÁ	SANTO ANTONIO DO SUDOESTE	CCC, CL, CO, DT, CIA, EAC, CO, FO, PA, RT, MO, NB, NSA, OP, SP, ST, SV, TA, WS	LAR	DE	1003	UNY											
BR	PR	PARANÁ	SANTO ANTONIO DO SUDOESTE	CCC, CL, CO, DT, CIA, EAC, CO, FO, PA, RT, MO, NB, NSA, OP, SP, ST, SV, TA, WS	LAR	DE	1003	UNY											
BR	PR	PARANÁ	SANTO ANTONIO DO SUDOESTE	CCC, CL, CO, DT, CIA, EAC, CO, FO, PA, RT, MO, NB, NSA, OP, SP, ST, SV, TA, WS	LAR	DE	1003	UNY											
BR	PR	PARANÁ	SANTO ANTONIO DO SUDOESTE	CCC, CL, CO, DT, CIA, EAC, CO, FO, PA, RT, MO, NB, NSA, OP, SP, ST, SV, TA, WS	LAR	DE	1003	UNY											
BR	PR	PARANÁ	SANTO ANTONIO DO SUDOESTE	CCC, CL, CO, DT, CIA, EAC, CO, FO, PA, RT, MO, NB, NSA, OP, SP, ST, SV, TA, WS	LAR	DE	1003	UNY											
BR	PR	PARANÁ	SANTO ANTONIO DO SUDOESTE	CCC, CL, CO, DT, CIA, EAC, CO, FO, PA, RT, MO, NB, NSA, OP, SP, ST, SV, TA, WS	LAR	DE	1003	UNY											
BR	PR	PARANÁ	SANTO ANTONIO DO SUDOESTE	CCC, CL, CO, DT, CIA, EAC, CO, FO, PA, RT, MO, NB, NSA, OP, SP, ST, SV, TA, WS	LAR	DE	1003	UNY											
BR	PR	PARANÁ	SANTO ANTONIO DO SUDOESTE	CCC, CL, CO, DT, CIA, EAC, CO, FO, PA, RT, MO, NB, NSA, OP, SP, ST, SV, TA, WS	LAR	DE	1003	UNY											

Por favor, não publicar nenhuma informação em relação ao conteúdo desta página em nenhum lugar. Este é um documento confidencial e contém informações de propriedade da Dell.



ENVELOPE PROPOSTA (envelope n.º 01)

PREGÃO PRESENCIAL Nº 090/2017

DATA DE ABERTURA: 30/11/2017, as 09:00 horas

NOME DO PROPONENTE: Perfil Computacional LTDA.

CNPJ: 02.543.216/0008-03

ENDEREÇO: AV Candido de Abreu 776, sala 508, 5º andar, centro cívico,

CEP 80530-000, Curitiba, Paraná.

FONE/FAX: (54) 2628-8300

Rua Barão do Rio Branco, 459
CEP:95180.000 | Farroupilha - RS

+55 [54] 2628.8300
perfil@perfil.inf.br

Município de Santo Antonio
do Sudoeste - PR

RECEBIDO

Em: 30/11/2017

Horário: 08h:40min

Comissão de Licitações

263

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PROPOSTA DE FORNECIMENTO DE PRODUTOS / SERVIÇOS

CNPJ: 07.866.818/0001-16 **Fornecedor:** Intersoft Soluções em Informática EIRELI
Endereço: Avenida Marechal Castello Branco 65 Bloco B Sala 803 - Campinas - São José/SC - CEP 89101-020 **Celular:** 41991137920
Inscrição Estadual: 9066374995 **Contador:** Ademir Hansaul Junior **Telefone:** 4130534201 **Fax:** 4130534201 **Telefone contador:** 4131175473
Representante: Ricardo Szornemá **RG:** 33468634 **E-mail:** ricardos@intersoftl.com.br

Endereço representante: Rua João Falarz 555 Torre 1 AP 201 - Orleans - Curitiba/PR - CEP 80280-270 **Telefone representante:** 41991137920
E-mail representante: ricardos@intersoftl.com.br **Conta:** 26931-1 **Data de abertura:** 10/04/2014
Banco: 341 - ITAU

Nº Item	Descrição do Produto / Serviço	Qtd.	Unid.	Preço Máximo	Marca	Modelo	Preço Unitário	Preço Total
001	MICROCOMPUTADOR 15 4GB WIN 10 Gabinete tipo SFF (Small Form Factor), suportando pelo menos 1 (um) disco rígido de 2,5 ou 3,5.	59,00	UN	4.602,00	HP	Elite Desk 705 - Monitor	8.460,00	259.100,00

Processador: Da mais recente geração disponibilizada pelo fabricante. Processador core i5, clock real de 3.4Ghz, suporte à memória DDR4 2400Mhz. Destacar na proposta Modelo do processador ofertado.

Memória: Tipo DIMM DDR4; capacidade instalada de, no mínimo, quatro (4) GB (1x4GB) 2400Mhz. Expandível a pelo menos dezessete (16) GB em no mínimo dois (2) slots DIMM.

DESCRIÇÃO COMPLETA NO ANEXO I - QUE DEVE ACOMPANHAR A PROPOSTA

Lote	Qtd	Preço Total
001	59,00	259.100,00

Processador: Da mais recente geração disponibilizada pelo fabricante. Processador core i5, clock real de 3.4Ghz, suporte à memória DDR4 2400Mhz. Destacar na proposta Modelo do processador ofertado.

Memória: Tipo DIMM DDR4; capacidade instalada de, no mínimo, oito (8) GB (2x4GB) ou (1x8) 2400Mhz. Expandível a pelo menos dezessete (16) GB em no mínimo dois (2) slots DIMM.

DESCRIÇÃO COMPLETA NO ANEXO I - QUE DEVERÁ ACOMPANHAR A PROPOSTA

Nº Item	Descrição do Produto / Serviço	Qtd.	Unid.	Preço Máximo	Marca	Modelo	Preço Unitário	Preço Total
001	TABLET QUAD CORE 1GB ANDROID 4.4 Processador: Quad Core 1.5 GHz Memória Ram: 1GB	70,00	UN	936,80			0,00	0,00

AO
MUNICÍPIO DE SANTO ANTONIO DO SUDOESTE
ESTADO DO PARANÁ
COMISSÃO PERMANENTE DE LICITAÇÕES
PREGÃO PRESENCIAL N°090/2017
PROCESSO N°0746/2017

PROPOSTA DE PREÇOS

Razão Social / Nome da Empresa		
INTERSOFT SOLUÇÕES EM INFORMÁTICA EIRELI		
CNPJ/MF ou CPF/MF	Inscrição Estadual	Fone e Fax com DDD
07.865.818/0001-16	906.63749-95	(41) 3053-4201/ 9113-7920
Endereço (Rua, Avenida, Estrada, Número, Bairro etc.)		
Avenida Marechal Castelo Branco, 65 - Bloco B, Sala 803 - Bairro Campinas		
Cidade	UF	CEP
São José	Santa Catarina	88.101-020
E-mail de contato		
ricardos@intersoftti.com.br / governo@intersoftti.com.br		
Site da empresa		
Site: http://www.intersoftti.com.br		
Representante Legal e Responsável pela proposta e por assinar o Contrato (Nome Completo, cargo e CPF)		
Ricardo Szeremeta Comercial Governo CPF:004.074.749/27		

Dados para crédito em conta

Banco	Agência	Conta Corrente
Banco do Itaú(341)	4011	26891-1

A presente proposta tem como objeto Registro de preços para aquisição de COMPUTADORES, para atender as necessidades do **MUNICÍPIO DE SANTO ANTONIO DO SUDOESTE - ESTADO DO PARANÁ** e suas "Entidades" de acordo com as condições estabelecidas no Edital e seus anexos, com os itens abaixo discriminados e demais especificações constantes do edital do **PREGÃO PRESENCIAL N°090/2017** em especial **ANEXO I - TERMO DE REFERÊNCIA DO OBJETO**.

1. DO VALOR DA PROPOSTA E ESPECIFICAÇÃO TÉCNICAS

LOTE 01

Item	Descrição	QTD	Valor Unitário	Valor Total
01	Marca: HP Modelo: HP EliteDesk 705 G3 Small Form Factor Business PC Monitor:HP Modelo: V225Hz	58	R\$ 4.450,00	R\$ 258.100,00

VALOR TOTAL DO LOTE 01 - ITEM 01: R\$ 258.100,00 (Duzentos e cinquenta e oito mil e cem reais)

DESCRIÇÃO DO OBJETO LOTE 01

ITEM 01 - DESKTOP - MODELO HP EliteDesk 705 G3 Small Form Factor Business PC

MONITOR HP - MODELO V225Hz

ITEM 001 – DESCRITIVO COMPLETO

Estação de trabalho: com as seguintes características técnicas mínimas:

- Gabinete tipo SFF (Small Form Factor), suportando pelo menos 1 (um) disco rígido de 2,5 ou 3,5

Processador: AMD PRO A10-9700 - (<http://products.amd.com/en-gb/search/APU/AMD-PRO-A-Series-Processors/AMD-PRO-A-Series-A10-APU-for-Desktops/7th-Gen-AMD-PRO-A10-9700-APU/214>) e (<http://www.amd.com/pt/products/apu/7th-gen-a10-9700-apu>)

- Da mais recente geração disponibilizada pelo fabricante. Processador AMD PRO A10-9700, suporte à memória DDR4. Destaca na proposta Modelo do processador ofertado.

Memória:

- Tipo DIMM DDR4; capacidade instalada de quatro (04) GB (1x4GB) 2400MHz. Expansível a dezesseis (16) GB em dois (02) slot's DIMM.

Sistema de Armazenamento:

- Interno ao gabinete contendo 01 (uma) unidade de disco rígido padrão S.M.A.R.T (Self-Monitoring, Analysis and Reporting Technology) com capacidade de quinhentos (500) GB, dezesseis (16) MB de cache, conexão de seis (6) GB/s e velocidade de rotação de sete mil e duzentos (7.200) rpm.

Unidade DVD-RW

- Unidade de gravador DVD/RW, interno ao gabinete.

Placa principal:

INTERSOFT SOLUÇÕES EM INFORMÁTICA EIRELE
Avenida Marechal Castelo Branco, 65 | Bloco B | Sala 803 | Bairro Campinas
São José/SC | CEP: 88.101-020 | Fone: (41) 3053.4201

Ricardo Szefermeta
Gerente de Contas
Intersoft Soluções em Informática

- Dois (2) slot PCI sendo no mínimo um (1) slot PCI Express x16 e um (1) slot PCI Express x1 no mínimo. Ao final da configuração, no mínimo um (1) slot's PCI Express esta livre.
- Possui uma (01) porta de vídeo padrão VGA (DB15) ,duas (02) porta padrão DisplayPort compartilhada ou dedicada suportando (02) monitores simultaneamente.Será fornecido todos os cabos necessários para interligação.
- Seis (06) interfaces USB nativas sendo duas (02) frontais e quatro (04) traseiras . Sendo quatro (04) portas USB 3.0.
- Interface de rede Ethernet RJ-45, 10/100/1000 (nativa na placa principal).
- Chip de segurança TPM
- Interface Wireless com suporte à rede B/G/N e Bluetooth 4.0 2.4Ghz interna não sendo aceito por adaptador USB.
- Interface de áudio com entrada frontal e traseira para microfone e fone de ouvido não sendo aceito o uso de adaptadores para atender esta exigência.

BIOS e Segurança:

- BIOS desenvolvida pelo mesmo fabricante do equipamento ou ter direitos copyright sobre essa BIOS, comprovados através de atestados fornecidos pelo fabricante do equipamento, não sendo aceitas soluções em regime de OEM ou customizadas, será apresentada declaração do fabricante da BIOS do equipamento especifica para o processo comprovando a característica;

Controladora de vídeo

- Controladora de vídeo integrada na mesma forma de silício e usufruindo da mesma inteligência do processador de re-balanceamento de carga de trabalho e consumo de energia, conforme descrito acima na Seção "Processador";

Teclado e Mouse:

- Teclado USB, vetado o uso de adaptadores, ABNT-2 de 104 teclas. Será fornecido opcionalmente apoio ergonômico removível.
- Mouse USB 3 Botões, vetado o uso de adaptadores, ótico, com botão de rolagem. Será fornecido mouse-pad com apoio em gel para o equipamento.

Monitor:

- Tipo LCD com iluminação em LED com 21,5" e resolução 1920 x 1080 FULL HD
- Aspecto 16:09 e contraste 1000:1
- Brilho de 250cd/m²
- Ângulo de visão de 178° vertical e 120° horizontal.
- Conectividades: Possui pelo menos 1 interface DVI 1 Display Port , 1 interface VGA.
- Tempo de resposta de 8ms.
- Base com ajuste de Altura e giro , original do mesmo fabricante do equipamento;

- Será enviado cabo de sinal digital correspondente para conexão entre a unidade de processamento e o monitor.
- Esta em conformidade com a norma Energy Star 5.2;
- Todas as características técnicas será comprovadas mediante consulta no site oficial do fabricante ou mediante catalogo técnico.
- (<http://h20195.www2.hp.com/v2/default.aspx?cc=br&lc=pt&oid=9157725>)
- (http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA6-3456PTL&doctype=data%20sheet&doclang=PT_BR&searchquery=&cc=br&lc=pt)

Fonte de Alimentação:

- Fonte de alimentação 110/220V - bivolt automático com PFC ativo, com 90% de eficiência e certificação 80PLUS.

Softwares licenciados instalados:

- Microsoft® Windows® 10, Professional Original 64-bit em Português com a respectiva mídia de instalação e último Service Pack (Falls Creators).

Acessórios:

- Serão fornecidos junto com o equipamento, todos os acessórios e cabos necessários para o pleno funcionamento do mesmo. O cabo de força será certificado pelo INMETRO e em conformidade com a norma NBR 14136, conforme orientações do INMETRO através do link: <http://www.inmetro.gov.br/pluguesetomadas/index.asp>

Certificações e Compatibilidades:

- Anexa comprovante de compatibilidade do produto ofertado com o ambiente operacional Microsoft Windows 10 (selo design for Windows Compatibility), constando no website: <http://winqual.microsoft.com/hcl/Default.aspx?m=x>;
- O fabricante e membro do consorcio DMTF (Desktop Management Task Force) que especifica o padrão Desktop Management Interface (DMI) nas categorias "DMTF Member List" como Board ou Leadership comprovados no site oficial <http://www.dmtf.org>.
- O CPU e Monitor possuem certificação Energystar 5.2 ou superior, apresenta comprovação.
- Os componentes (CPU, MONITOR, TECLADO, MOUSE) serão da mesma MARCA e FABRICANTE, não sendo aceita solução em O&M ou equipamentos de livre comercialização no mercado.

Garantia:

- O fabricante do equipamento possui central de atendimento técnico, com abertura de chamados via DDG (0800 709-7751) e chat on line;
- O equipamento ofertado (CPU, Teclado, Mouse e Monitor) possuem 3 anos de garantia "on site" (DIRETAMENTE NO SITE DO FABRICANTE), prestado pelo fabricante, com atendimento em 10 (dez) horas por dia, 5 (cinco) dias úteis por semana com presença de um técnico "on

site" em no máximo 72 (setenta e duas) horas após a abertura do chamado, apresentar comprovação;

- O Fabricante possui site na internet para download de drivers (<https://support.hp.com/br-pt/br/>) e dos softwares originais instalados em fábrica além de suporte técnico, verificação do status da garantia e configuração original de fábrica do equipamento. Comprovar esta exigência na proposta;
- Não serão aceitas adaptações no equipamento (adição de componentes não originais do fabricante). Exigência está visa à procedência e garantia total do equipamento pelo fabricante.

Padrões:

- O conjunto formado por gabinete, teclado e mouse serão do mesmo fabricante do equipamento, sendo aceitas soluções em regime de OEM devidamente comprovadas (apresentaa comprovação). Não será aceito qualquer tipo de personalização como adesivos, impressões serigráficas ou outros. A homogeneidade dos produtos e acessórios faz parte do projeto original do fabricante;
- Manuais em português estão disponibilizados no site do fabricante. Não deverá ser enviado manuais impressos;
- Todas as características solicitadas serão comprovadas através de literatura técnica juntamente com a proposta, atestados do fabricante, sítios da internet(<https://hpfacil.itcs.hp.com/Reseller>) ou outras fontes nas quais as exigências solicitadas possam ser claramente identificadas.

Considerações finais:

- O modelo de equipamento será a geração mais recente disponibilizada pelo fabricante, não sendo aceito equipamentos em final de vida ou descontinuados;
- A critério da Instituição, poderá ser solicitada amostra do equipamento para validação das especificações técnicas.

OBSERVAÇÃO: A descrição de cada item é de acordo com a especificação técnica descrita no ANEXO I - TERMO DE REFERÊNCIA DO OBJETO do Edital do PREGÃO PRESENCIAL N° 090/2017.

2. DA DECLARAÇÃO

- a) Nos preços propostos estão inclusos os encargos trabalhistas, todos os equipamentos, instrumentos, ferramentas e máquinas, transporte, salários, carga tributária, alvará, taxas municipais, estaduais e federais, as despesas indiretas, lucro bruto do licitante e os demais custos, necessários para a execução integral do objeto constante no **Edital do Pregão Presencial n° 090/2017** e seus anexos.
- b) O prazo de validade da proposta é de **60 dias corridos**, a contar da data limite de recebimento da proposta.
- c) Concordamos integralmente com todos os termos do Edital e que executaremos o objeto da presente licitação conforme estipulado no **ANEXO I – Termo de Referência do Objeto** – e conforme as condições de entrega.
- d) **Prazo e locais de entrega:** 20(vinte)dias corridos após a assinatura do contrato ou nota de fornecimento.
- e) **Garantia:** 36 meses(trinta e seis)ON-SITE conforme solicitado no edital.
Site para drivers:https://support.hp.com/br-pt_br
Telefone para abertura de chamados: 0800-709-7751
- f) Pagamento em até **30 (trinta) dias corridos**, a contar da data do atesto da Nota Fiscal/Fatura, efetuado pelo Setor competente, de acordo com as exigências administrativas em vigor.
- g) Os produtos ofertados são novos, estão em linha produção.

Curitiba, 30 de novembro de 2017.



Ricardo Szeremeta
Comercial Governo
Intersoft Soluções em Informática EIRELI
CNPJ:07.865.818/0001-16

07 865 818/0001-16
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São José - SC



HP Brasil Indústria e Comércio de Equipamentos Eletrônicos Ltda.
Alameda Xingu, n.º 350, 8ª andar
Alphaville Industrial, Barueri/SP
CEP: 06455-030
Brasil

declaração

Barueri, 27 de Novembro de 2017.

Ao
MUNICÍPIO DE SANTO ANTÔNIO DO SUDOESTE

Assunto:
PREGÃO PRESENCIAL 090/2017

BDI 9107

A HP BRASIL INDÚSTRIA E COMÉRCIO DE EQUIPAMENTOS ELETRÔNICOS LTDA. (HP), em atendimento ao quanto solicitado pelo Parceiro HP **Intersoft Soluções em Informática Eireli**, declara que:

A empresa **Intersoft Soluções em Informática Eireli**, inscrita no CNPJ **07.865.818/0001-16** sediada na AVENIDA MARECHAL CASTELO BRANCO, 65, CAMPINAS, SÃO JOSÉ, SANTA CATARINA - CEP 88101-020, é um **PARCEIRO AUTORIZADO HP PARA COMPRA DE PRODUTOS HP DE DISTRIBUIDORES AUTORIZADOS HP**, estando apto a comercializar Produtos HP.

Declaramos que o produto **1KC37LA#AC4** - HP EliteDesk 705 G3 SFF, vendido pela HP aos seus **Distribuidores Autorizados**:

- Possui BIOS do mesmo Fabricante;
- Possui BIOS UEFI.

Durante o período de garantia do Produto HP, a Fabricante HP responsabiliza-se pela garantia no prazo e condições padrão HP, conforme especificado no termo de garantia que acompanha o Produto HP e no manual técnico do Produto HP.

Serviços adicionais ao especificado na garantia padrão da Fabricante HP poderão ser adquiridos pelo Parceiro HP Autorizado para Compra Direta/Distribuidores Autorizados HP, com prazos e condições customizados.

Declaramos que os equipamentos fabricados pela HP são novos, que não foram submetidos a uso, nem recondição, ressalvados os testes de fábrica.

Os Produtos da marca HP são de fabricação própria ou homologados por regime de O&M e estão em linha de produção atual.

Declaramos, ainda, que a HP possui site na internet - www.hp.com.br - onde pode ser efetuado download de drivers para os Produtos HP e número de telefone para Grande São Paulo - (011) 4004-7751 e demais regiões - 0800 709 77 51 - para informações e aberturas de chamados técnicos.

A Rede de Serviços Autorizados HP está distribuída em todo território nacional, ou conforme indicado a seguir, com uso de peças e componentes originais e com técnicos devidamente treinados pela HP:

PARANÁ

Nome: WBM COMÉRCIO E MANUTENÇÃO DE INFORMÁTICA LTDA
CPNJ: 94.909.447/0007-17
Endereço: Rua Comendador Roseira, 122 - Prado Velho
Cidade: Curitiba, PR - CEP: 80215-210
Contato: Edmundo Mutti Klein
E-mail: edmundo@wbm.com.br
Telefone: (41) 3074-8100

Esta declaração é válida por 30 (trinta) dias corridos, a contar da data de sua emissão.

Atenciosamente,



Luana Melatto Vilas Boas
Representante Legal
HP Indústria e Comércio de Equipamentos Eletrônicos Ltda.

Datasheet

HP EliteDesk 705 G3 Small Form Factor PC



The HP EliteDesk 705 delivers impressive value with uncompromising performance, security, and manageability. Customize your HP EliteDesk 705 with expandable options that provide an enterprise-class experience to meet virtually any business need.



HP recommends Windows 10 Pro.

- Windows 10 Pro
- AMD PRO A-Series APU¹; AMD Ryzen Pro processors

Pure performance and enhanced visual experience

Enjoy the powerful performance of the latest 65W AMD Ryzen™ 3 PRO and Ryzen™ 5 PRO CPUs or amplify performance with the optional 95W AMD Ryzen™ 7 PRO CPU², with up to 8 cores, 16 threads³, and high-end discrete graphics for immersive VR content.

Self-healing safeguard

HP Sure Start with Runtime Intrusion Detection monitors in-memory BIOS, recovers the platform without user or admin intervention, restores the BIOS to a custom state, and is enterprise ready for centralized management.

Reliability for the long haul

This work-ready PC is designed with platform stability up to 18 months for a long life cycle. Rest easy with a PC that passed 120,000 hours of testing and is designed to undergo MIL-STD 810G testing.

Fit user needs and the budget

The latest AMD PRO A-Series APUs¹ with Radeon™ graphics deliver desktop performance optimized for diverse digital workloads and dependable daily productivity across your business.

Featuring

- Help secure the future of your modern business. Modern PCs from HP make the most of Windows 10 Pro to protect you from today's security threats and maximize management and productivity features for business.
- Reduce the complexity of administration. HP Client Management Solutions⁴ and Dash v1.1⁵ allow easy management of your devices.
- Make the most of your portable devices with 10 total USB ports and an optional HP Tri-mode Wireless Charging Pad.
- Launch Skype for Business™ meetings quickly with the optional HP Collaboration Keyboard.
- Boot up fast and quickly transition between applications with an optional powerful HP Turbo Drive G2.
- Help increase productivity by up to 35%⁶ with support for up to four external Elite Displays.
- Extend the life of your purchase. Using the tool-less chassis this easily upgradeable platform features multiple bays, four expansion slots, ten USB ports and several connectors to help you meet growing demands.
- Help keep data safe and secure with dual storage RAID configurations⁷, TPM and SED hard drives.

HP EliteDesk 705 G3 Small Form Factor PC Specifications Table



Form Factor	Small Form Factor
Available Operating System	Windows 10 Pro 64 – HP recommends Windows 10 Pro, ¹ Windows 10 Home 64, FreeDOS 2.0, NextGen Linux [®] 64
Processor Family ⁽¹⁾⁽²⁾	AMD Ryzen™ 3 PRO processor, AMD Ryzen™ 5 PRO processor, AMD Ryzen™ 7 PRO processor, 7th Generation AMD A10 APU processor (A10-9700), 7th Generation AMD A12 APU processor (A12-9800), 7th Generation AMD A8 APU processor (A8-9500), 7th Generation AMD A6 APU processor (A6-9500)
Available Processors	AMD PRO A10-9700 APU with Radeon™ R7 Graphics (3.5 GHz base frequency, up to 3.8 GHz burst frequency, 2 MB cache, 4 cores); AMD PRO A12-9800 APU with Radeon™ R7 Graphics (3.8 GHz base frequency, up to 4.2 GHz burst frequency, 2 MB cache, 4 cores); AMD PRO A8-9500 APU with Radeon™ R5 Graphics (3.0 GHz base frequency, up to 3.8 GHz burst frequency, 1 MB cache, 2 cores); AMD PRO A6-9500 APU with Radeon™ R7 Graphics (2.1 GHz base frequency, up to 3.4 GHz burst frequency, 2 MB cache, 4 cores); AMD Ryzen™ 3 PRO 1200 Quad-Core (3.1 GHz base frequency, up to 3.9 GHz burst frequency, 10 MB cache); AMD Ryzen™ 5 PRO 1500 Quad-Core (3.5 GHz base frequency, up to 3.7 GHz burst frequency, 18 MB cache); AMD Ryzen™ 7 PRO 1700 Eight-Core (3.4 GHz base frequency, up to 3.8 GHz burst frequency, 20 MB cache)
Chipset	AMD B350 FCH
Maximum Memory	64 GB DDR4-2400 SDRAM (Transfer rate up to 24000/s)
Memory Slots	4 DIMM
Internal Storage	1.28 TB up to 5.12 TB HP Turbo Drive G2 SSD (PCIe) ⁺ 256 GB up to 5.12 TB HP Turbo Drive G2 TLC SSD (PCIe) ⁺ 1.28 TB up to 256 GB SATA SSD ⁺ 240 GB up to 5.12 GB SATA SSD SSD ⁺ up to 1 TB SATA SSD (7200 rpm) ⁺ 500 GB (8 GB cache) up to 1 TB (8 GB cache) SATA SSHD (5400 rpm) ⁺ up to 500 GB SATA SED (7200 rpm) ⁺ up to 500 GB SATA FIPS SED (5400 rpm) ⁺ 500 GB up to 2 TB SATA (7200 rpm) ⁺ 256 GB up to 5.12 TB SATA TLC SSD ⁺
Optical Drive	Slim SATA DVD-ROM, Slim SATA DVD-Writer ⁺
Available Graphics	Integrated: AMD Radeon™ HD Discrete: AMD Radeon™ R5 420 Graphics (1 GB GDDR5 dedicated), AMD Radeon™ R7 470 Graphics (2 GB DDR4 dedicated), AMD Radeon™ R7 470 Graphics (4 GB DDR5 dedicated), NVIDIA® GeForce® GT 730 (1 GB DDR3 dedicated), NVIDIA® GeForce® GT 730 (2 GB DDR3 dedicated), NVIDIA® Quadro® 310 (1 GB DDR3 dedicated), NVIDIA® GeForce® GT 730 (2 GB DDR5 dedicated) ⁽¹⁾⁽²⁾ (AMD Radeon™ HD graphics integrated on processor)
Audio	DTS Studio Sound™ with Realtek ALC221, microphone and headphone front ports (3.5 mm), line-out and line-in rear ports (3.5 mm), internal mono speaker
Communications	LAN: Integrated Broadcom Realtek me GbE Plus; Intel® I210-IT1 PCIe GbE (optional) Wi-Fi: Intel® 8250 Dual-band wireless BGC, 11ac (802) PCIe combo card; Intel® 7265 Dual-band wireless BGC, 11ac (2x2) PCIe combo card ⁺
Expansion Slots	2 PCIe x1, 1 PCIe x16 (x4), 1 PCIe x16 (x16)
Ports and Connectors	Front: 1 USB 2.0; 1 USB 2.0 (fast charging); 2 USB 3.1 Gen 1; 1 Headset/microphone; 1 Headphone connector Back: 2 (RS 232); 4 USB 3.1 Gen 1; 1 serial; 2 PS/2 (keyboard & mouse); 1 VGA; 2 DisplayPort; 1 audio line in; 1 audio line out; 1 RJ-45; 1 second serial (optional); 1 parallel (optional); 1 second USB 3.1 Gen 2 (optional) ⁽²⁾ Internal: 3 SATA storage connectors
Internal Drive Bays	Two 3.5" HDD, One 2.5" HDD
External Drive Bays	One slim DVD; 1 SD-4 card reader (optional)
Available Software	HP ePrint Driver + JetAdvantage, HP Hobby Support, HP Jumpstart, HP Recovery Manager, HP Support Assistant ⁽¹⁾⁽²⁾
Security Management	DriveLock, Hood sensor, HP Client Security Suite Gen 3, HP Credential Manager, HP Device Access Manager, HP Password Manager, HP Power-On Authentication, HP Security Manager, HP Spare Key, Power-on password (via BIOS), RAM configurations, Serial enable/disable (via BIOS), Setup password (via BIOS), Support for chassis padlocks and cable lock devices, Trusted Platform Module TPM 2.0 Embedded Security Chip (SLB86, T0-Common Criteria EAL4+ Certified) ⁽¹⁾⁽²⁾

Management Features	HP BIOS Config Utility (download), HP Client Catalog (download), HP Driver Packs (download), HP SoftPaq Download Manager, HP System Software Manager (download), LANDesk Management, HP Image Assistant, HP Management Integration Kit for Microsoft System Center Configuration Management (1/11)
Power	200 W standard efficiency; 200 W up to 80% efficient, active PFC
Dimensions	14.9 x 15.3 x 3.95 in. 380 x 338 x 100 mm (horizontal desktop orientation)
Weight	14.6 lb 6.6 kg (Configured with 1 HDD & 1 DVD. Weight will vary by configuration.)
Environmental	Low halogen *
Energy Efficiency Compliance	ENERGY STAR® certified and EPEAT® registered configurations available. †

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3
P

Datasheet | HP EliteDesk 705 G3 Small Form Factor PC

HP recommends Windows 10 Pro.

HP EliteDesk 705 G3 Small Form Factor PC

Accessories and services (not included)

HP 8GB DIMM DDR4 Memory



Boost your business PC performance with HP Memory. Upgrading your memory is a cost-effective way to boost your system performance without having to upgrade your processor.
Product number: P1N52AA

HP USB Graphics Adapter



The super-compact HP USB Graphics Adapter enables connection of up to six simultaneous displays (one per adaptor) to help you boost productivity and multi-task across several open applications.
Product number: NLS71AA

HP TLC 256 GB SATA SSD



Expand the storage capabilities of your desktop with the HP TLC 256 GB SATA SSD, which includes TLC flash and the same reliability you already get from our other SSD drives.
Product number: P1M66AA

HP Single Monitor Arm



The HP Single Monitor Arm is the perfect desk accessory for your work life. Sleek and streamlined, the HP Single Monitor Arm is designed to complement the way you work.
Product number: B7B61AA

HP EliteDesk 800 G2 SFF Bezel/Dust Filter



Maintain optimal PC performance and reduce the risk of overheating with the reusable HP EliteDesk 800 G2 SFF Bezel/Dust Filter, which is designed to help reduce dust ingress.
Product number: P1N68AA

M

2

3

Messaging Footnotes

- ¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS updates to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.
- ² Public is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering does not represent a measurement of clock speed.
- ³ Sold separately or as an optional feature on the HP EliteDesk 705 G3 MT (expected availability Fall 2017).
- ⁴ Sold separately or as an optional feature.
- ⁵ Available on HP EliteBook and HP EliteDesk products equipped with AMD 7th generation APUs.
- ⁶ MTTD testing is pending and is not intended to demonstrate fitness for U.S. Department of Defense contract requirements for military use. Test results are not a guarantee of future performance under these test conditions. Damage under the MTTD test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack.
- ⁷ Requires Windows.
- ⁸ Third party management software is sold separately. Cash on file and enterprise manageability qualified to work with MS SCCM and Andron.
- ⁹ Observed Productivity Efficiency (User Satisfaction when Using Multiple Large Displays." Kato LLC Economics Consulting, November 6, 2012.
- ¹⁰ RAID configuration is optional and does require additional hard drive.

Technical Specifications Footnotes

- ¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS updates to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.
- ² Public is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering is not a measurement of clock speed.
- ³ For hard drives and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB for Windows 10 is reserved for system recovery software.
- ⁴ Deposition of copyrighted material is strictly prohibited. Actual speeds may vary.
- ⁵ Wireless access point and internet service required and not included. Availability of public wireless access points limited.
- ⁶ Sold separately or as an optional feature.
- ⁷ Please refer to the product's quick start document for a full list of pre-installed software.
- ⁸ HP ePrint Drive requires an internet connection to HP web-enabled printer and HP ePrint account registration for a list of eligible printers, supported documents and image types and other HP ePrint details, see www.hp.com/go/eprintnow.
- ⁹ (EPEAT) registered when applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. See HP's Sustainability page for more energy efficiency at www.hp.com/go/options.
- ¹⁰ Certain power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
- ¹¹ In accordance with Microsoft's support policy, HP does not support the Windows® 7 or Windows 7 operating system on products configured with Intel® and AMD 7th generation and 7th generation processors or providing Windows 8 or Windows 7 drivers on <http://www.support.hp.com>.
- ¹² Support: HPP 140 forums.
- ¹³ Power On Authentication: HP commercial platforms support password with the feature and fingerprint where applicable.
- ¹⁴ HP Password Manager: Some websites and applications may not be supported. User may need to enable or allow the add-on / extension in the internet browser.
- ¹⁵ HP SoftPaq Download Manager, HP System Software Manager, HP BIOS Config Utility, HP Drive Erasing, HP Management Integration Kit for Microsoft System Center Configuration Manager. Not pre-installed, however available for download at <http://www.hp.com/go/enterprise>.
- ¹⁶ LANdesk Management: Subscription required.
- ¹⁷ AMD Ryzen™ PRO CPUs require discrete graphics card attached.
- ¹⁸ Two G2 DisplayPort monitor connectors and one DVI-MB monitor connector will not be functional when you PRO CPU is selected.
- ¹⁹ Optional and must be configured at purchase.

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4AA6-6316EHUC, September 2017



QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

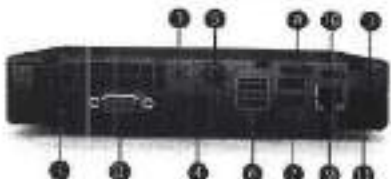
Overview

HP EliteDesk 705 G3 Desktop Mini Business PC



- | | |
|--|-----------------------------|
| 1. Headphone connector | 4. USB 3.1 Gen1 |
| 2. Microphone/headphone connector (software-controlled; default mode is headset) | 5. Headlight activity light |
| 3. USB 3.1 Gen1 - charging | 6. Dual-state power button |

HP EliteDesk 705 G3 Desktop Mini Business PC



- | | |
|--------------------------------|---|
| 1. DisplayPort™ mini connector | 3. (2) USB 2.0 ports (black), allows for audio from 24-watt speakers/headset when connected and enabled in BIOS |
| 2. VGA monitor connector | 8. Product loop |
| 4. D-Sub (VGA) connector | 9. RJ-45 network connector |

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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Overview

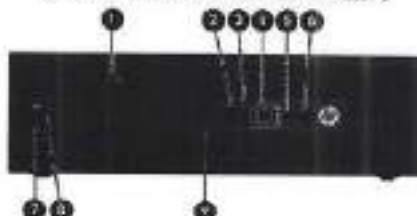
- | | |
|--|-------------------|
| 4. DisplayPort™ (DisplayPort™) (optional; HDMI or DVI-D connector) | 10. USB connector |
| 5. Thunderbolt™ connector (optional) | 11. Power |
| 6. (2) USB 3.1 Gen1 ports (blue) | |

Optional

Get it first

- Note:** (1) optional PS/2 (PC) connector for optional wireless AC; (2) optional PS/2 (PC) connector for optional SSD drive.
- Key:** (1) 2.5" internal storage drive bay.
- WVA:** Supports the SATA 150 standard replacement to drive of PC drives.

HP EliteDesk 705 G3 Small Form Factor Business PC



- | | |
|---|-----------------------------|
| 1. 4-pin mini-USB drive lockout | 5. Headphone connector |
| 2. USB 2.0 (fast-charging port) (black) | 6. Dual-state power button |
| 3. USB 2.0 port (black) | 7. Headlight activity light |
| 4. (2) USB 3.1 Gen1 ports (blue) | 8. RJ-45 network (ethernet) |

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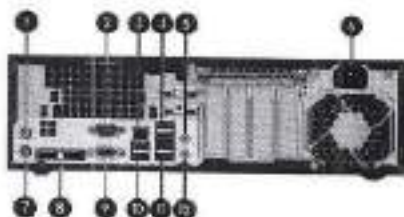
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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Overview

HP EliteDesk 705 G3 Small Form Factor Business PC



- | | |
|---|---|
| 1. PS/2 Mouse connector (green) | 7. PS/2 Keyboard connector (purple) |
| 2. Serial port | 8. (2) DisplayPort™ monitor connectors* |
| 3. RJ-45 network connector | 9. VGA monitor connector* |
| 4. (2) USB 2.0 ports (black), allows for audio from 24-watt speakers/headset when connected and enabled in BIOS | 10. (2) USB 3.1 Gen1 ports (blue) |
| 5. (2) USB 3.1 Gen1 ports (blue) | 11. (2) USB 3.1 Gen1 ports (blue) |
| 6. Power cord connector | 12. (2) Serial connectors for power of audio device (green) |

*Two (2) DisplayPort monitor connectors and one (1) VGA monitor connector will not be functional when using PRO (TM) keyboard.

NOTE: Optional internal serial port and an optional parallel port are available from HP.

Get it first

- Note:** (1) PCI Express x16 graphics connectors (one 16x16 slot and 1, the other shared as an x8); (2) PCI Express x1 auxiliary connectors.
- Key:** (1) 2.5" internal storage drive bay; (2) 3.5" internal storage drive bay.

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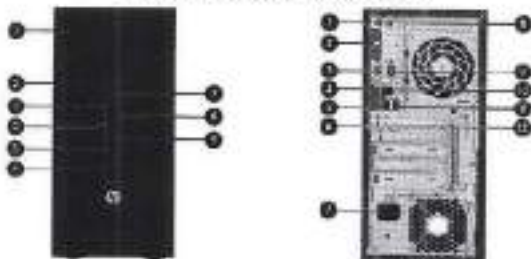
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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Overview

HP EliteDesk 705 G3 Microtower Business PC



- | | |
|--|---|
| 1. (2) Serial data speed drive lockout | 4. PS/2 Keyboard connector (purple) |
| 2. Dual "Microtower" button | 5. (2) DisplayPort™ monitor connectors |
| 3. USB 2.0 fast-charging port (black) | 6. RJ-45 network connector |
| 4. (2) USB 3.1 Gen1 ports (blue) | 7. (2) USB 3.1 Gen1 ports (blue) |
| 5. Headphone connector | 8. (2) USB 3.1 Gen1 ports (blue) |
| 6. RJ-45 network connector | 9. Auxiliary connector for power of audio device (green) |
| 7. Head drive activity light | 10. Power cord connector |
| 8. USB 2.0 port (black) | 11. PS/2 Mouse connector (green) |
| 9. Microphone/headphone connector | 12. Serial connector |
| 10. (2) PS/2 connectors for power of audio device (green) | 13. RJ-45 network connector |
| 11. (2) USB 3.1 Gen1 ports (blue), allows for audio from 24-watt speakers/headset when connected and enabled in BIOS | 14. (2) Serial connectors for power of audio device (green) |

* (2) optional serial port connector (also optional parallel port) are available from HP.

Get it first

- Note:** (1) PCI Express x16 graphics connectors (one shared as an x8, the other shared as an x8); (2) PCI Express x1 auxiliary connectors.
- Key:** (1) 2.5" internal storage drive bay.

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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Standard Features and Configurable Components (Availability may vary by country)

HPi Secure Swap™ with Backup (code: HJ02)
 Microphone and headset (to ports G, J, K)
 Ultra-wide and Ultra-Linear Ports (3.0mm DP/DP+ only)
 Internal hard drive (code: J)

* The front microphone ports (code: I) can be used as a line-in. Microphone-in or headset-out ports, both audio input ports are available as a line-in or microphone-in port. External speakers are not provided as standard. Audio recording can be enabled in the BIOS and can be used to allow recording of audio streams to the hard drive that front and rear ports. This allows for different audio applications to run separate audio streams on the system. For example, the front microphone can record while a communications application while the rear ports are being used with external speakers and a small media application.

Refer to the Setup and Configuration manual for details on purchase.
 HP iC Speaker Phone
 HP iC Speaker Phone Mounting Bracket

NETWORKING/COMMUNICATIONS

Standard HP iC Integrated	HP	HT	DN
Standard Ethernet (RJ45) Ethernet LAN (GIGABIT-E) (code: J)	X	X	X
Optional			
HP iC Ethernet (RJ45) 10/100/1000 Ethernet LAN (code: J)	X	X	X
Wireless LAN (optional)*			
HP iC 802.11ac 1x1 Dual-Band PCI-e/1 Ethernet Card	X	X	X
HP iC 802.11ac 2x2 Dual-Band PCI-e/1 Ethernet Card	X	X	X
HP iC 802.11ac 2x2 Dual-Band PCI-e/2 Ethernet Card	X	X	X
HP iC 802.11ac 2x2 Dual-Band PCI-e/2 Ethernet Card	X	X	X
HP iC 802.11ac 2x2 Dual-Band PCI-e/2 Ethernet Card	X	X	X
HP iC 802.11ac 2x2 Dual-Band PCI-e/2 Ethernet Card	X	X	X
HP iC 802.11ac 2x2 Dual-Band PCI-e/2 Ethernet Card	X	X	X

* Wireless access point and internet service provider not included. Availability of public wireless access points limited.

SLOTS

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Standard Features and Configurable Components (Availability may vary by country)

	HP	HT	DN
PCI Express x16 PCIe (code: K)	2x1 4.2" (106.68 mm) height 6.7" length 120 mm (4.72 in) wide	2x1 4.2" (106.68 mm) height 6.7" length 120 mm (4.72 in) wide	N/A
PCI Express x1 PCIe (code: L)	1x1 3.5" (88.9 mm) height 6.7" length 120 mm (4.72 in) wide	1x1 4.2" (106.68 mm) height 6.7" length 120 mm (4.72 in) wide	N/A
Turbo Drive SATA RAID	N/A	N/A	1x HP iC RAID 0/1/10 1x HP iC RAID 0/1/10 1x HP iC RAID 0/1/10

PORTS

HP iC Ports - Standard	HP & HT	DN
HP iC 2.0	2 - Front (1 - in a left-hand-side (L) - front (2 - in a right-hand-side (R) - front) 1x2 rear face USB 2.0 Ports	2 - Back (2 - in a left-hand-side (L) - front)
HP iC 3.0 Gen 1	2 - Front (2 - in a left-hand-side (L) - front) 2 - Rear	N/A
HP iC 3.0 Gen 2	2 - Rear	N/A
Serial RS-232	1 - Serial connector	2 - Back (2 - in a left-hand-side (L) - front)
Fire	1 - FireWire (IEEE 1394) connector	N/A
Video	1 - VGA 1 - DisplayPort™	1 - VGA 1 - DisplayPort™ 1 - HP iC DisplayPort™ (code: M) 1 - HP iC DisplayPort™ (code: N)
Audio	Front: 3 - Headphone/microphone 3 - Headphone connector Rear: 1 - Line-in (3.5 mm diameter) 1 - Line-out (3.5 mm diameter)	Front: 1 - Headphone/microphone 1 - Headphone connector
Network Interface	1 - RJ-45 connector	1 - RJ-45 connector

HP iC Ports - Optional	HP & HT	DN
HP iC Serial RS-232	1 - HP iC Serial Port Adapter	
Fire	1 - HP iC FireWire (IEEE 1394) Adapter	
USB Type-C™	1 - HP iC SuperSpeed USB 3.1 Gen 2 Type-C Port	

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Standard Features and Configurable Components (Availability may vary by country)

HP iC Ports - Internal Ports	HP	HT	DN
1x SATA storage connector	X	N/A	N/A
Internal SATA storage connector	N/A	X	X

BAYS

	HP	HT	DN
2x 3.5" (91.4 mm) drive	N/A	N/A	N/A
0x 3.5"	X	X	N/A
2x 2.5" (63.5 mm) drive	X	X	N/A
1x 2.5" (63.5 mm) drive	X	X	N/A

KEYBOARDS AND POINTING DEVICES (optional and must be configured at purchase)

Keyboards	HP	HT	DN
HP iC Keyboard (code: O)	X	X	X
HP iC Keyboard (code: P)	X	X	X
HP iC Keyboard (code: Q)	X	X	X
HP iC Keyboard (code: R)	X	X	X
HP iC Keyboard (code: S)	X	X	X
HP iC Keyboard (code: T)	X	X	X
HP iC Keyboard (code: U)	X	X	X
HP iC Keyboard (code: V)	X	X	X
HP iC Keyboard (code: W)	X	X	X
HP iC Keyboard (code: X)	X	X	X
HP iC Keyboard (code: Y)	X	X	X
HP iC Keyboard (code: Z)	X	X	X
HP iC Keyboard (code: AA)	X	X	X
HP iC Keyboard (code: AB)	X	X	X
HP iC Keyboard (code: AC)	X	X	X
HP iC Keyboard (code: AD)	X	X	X
HP iC Keyboard (code: AE)	X	X	X
HP iC Keyboard (code: AF)	X	X	X
HP iC Keyboard (code: AG)	X	X	X
HP iC Keyboard (code: AH)	X	X	X
HP iC Keyboard (code: AI)	X	X	X
HP iC Keyboard (code: AJ)	X	X	X
HP iC Keyboard (code: AK)	X	X	X
HP iC Keyboard (code: AL)	X	X	X
HP iC Keyboard (code: AM)	X	X	X
HP iC Keyboard (code: AN)	X	X	X
HP iC Keyboard (code: AO)	X	X	X
HP iC Keyboard (code: AP)	X	X	X
HP iC Keyboard (code: AQ)	X	X	X
HP iC Keyboard (code: AR)	X	X	X
HP iC Keyboard (code: AS)	X	X	X
HP iC Keyboard (code: AT)	X	X	X
HP iC Keyboard (code: AU)	X	X	X
HP iC Keyboard (code: AV)	X	X	X
HP iC Keyboard (code: AW)	X	X	X
HP iC Keyboard (code: AX)	X	X	X
HP iC Keyboard (code: AY)	X	X	X
HP iC Keyboard (code: AZ)	X	X	X
HP iC Keyboard (code: BA)	X	X	X
HP iC Keyboard (code: BB)	X	X	X
HP iC Keyboard (code: BC)	X	X	X
HP iC Keyboard (code: BD)	X	X	X
HP iC Keyboard (code: BE)	X	X	X
HP iC Keyboard (code: BF)	X	X	X
HP iC Keyboard (code: BG)	X	X	X
HP iC Keyboard (code: BH)	X	X	X
HP iC Keyboard (code: BI)	X	X	X
HP iC Keyboard (code: BJ)	X	X	X
HP iC Keyboard (code: BK)	X	X	X
HP iC Keyboard (code: BL)	X	X	X
HP iC Keyboard (code: BM)	X	X	X
HP iC Keyboard (code: BN)	X	X	X
HP iC Keyboard (code: BO)	X	X	X
HP iC Keyboard (code: BP)	X	X	X
HP iC Keyboard (code: BQ)	X	X	X
HP iC Keyboard (code: BR)	X	X	X
HP iC Keyboard (code: BS)	X	X	X
HP iC Keyboard (code: BT)	X	X	X
HP iC Keyboard (code: BU)	X	X	X
HP iC Keyboard (code: BV)	X	X	X
HP iC Keyboard (code: BW)	X	X	X
HP iC Keyboard (code: BX)	X	X	X
HP iC Keyboard (code: BY)	X	X	X
HP iC Keyboard (code: BZ)	X	X	X
HP iC Keyboard (code: CA)	X	X	X
HP iC Keyboard (code: CB)	X	X	X
HP iC Keyboard (code: CC)	X	X	X
HP iC Keyboard (code: CD)	X	X	X
HP iC Keyboard (code: CE)	X	X	X
HP iC Keyboard (code: CF)	X	X	X
HP iC Keyboard (code: CG)	X	X	X
HP iC Keyboard (code: CH)	X	X	X
HP iC Keyboard (code: CI)	X	X	X
HP iC Keyboard (code: CJ)	X	X	X
HP iC Keyboard (code: CK)	X	X	X
HP iC Keyboard (code: CL)	X	X	X
HP iC Keyboard (code: CM)	X	X	X
HP iC Keyboard (code: CN)	X	X	X
HP iC Keyboard (code: CO)	X	X	X
HP iC Keyboard (code: CP)	X	X	X
HP iC Keyboard (code: CQ)	X	X	X
HP iC Keyboard (code: CR)	X	X	X
HP iC Keyboard (code: CS)	X	X	X
HP iC Keyboard (code: CT)	X	X	X
HP iC Keyboard (code: CU)	X	X	X
HP iC Keyboard (code: CV)	X	X	X
HP iC Keyboard (code: CW)	X	X	X
HP iC Keyboard (code: CX)	X	X	X
HP iC Keyboard (code: CY)	X	X	X
HP iC Keyboard (code: CZ)	X	X	X
HP iC Keyboard (code: DA)	X	X	X
HP iC Keyboard (code: DB)	X	X	X
HP iC Keyboard (code: DC)	X	X	X
HP iC Keyboard (code: DD)	X	X	X
HP iC Keyboard (code: DE)	X	X	X
HP iC Keyboard (code: DF)	X	X	X
HP iC Keyboard (code: DG)	X	X	X
HP iC Keyboard (code: DH)	X	X	X
HP iC Keyboard (code: DI)	X	X	X
HP iC Keyboard (code: DJ)	X	X	X
HP iC Keyboard (code: DK)	X	X	X
HP iC Keyboard (code: DL)	X	X	X
HP iC Keyboard (code: DM)	X	X	X
HP iC Keyboard (code: DN)	X	X	X
HP iC Keyboard (code: DO)	X	X	X
HP iC Keyboard (code: DP)	X	X	X
HP iC Keyboard (code: DQ)	X	X	X
HP iC Keyboard (code: DR)	X	X	X
HP iC Keyboard (code: DS)	X	X	X
HP iC Keyboard (code: DT)	X	X	X
HP iC Keyboard (code: DU)	X	X	X
HP iC Keyboard (code: DV)	X	X	X
HP iC Keyboard (code: DW)	X	X	X
HP iC Keyboard (code: DX)	X	X	X
HP iC Keyboard (code: DY)	X	X	X
HP iC Keyboard (code: DZ)	X	X	X
HP iC Keyboard (code: EA)	X	X	X
HP iC Keyboard (code: EB)	X	X	X
HP iC Keyboard (code: EC)	X	X	X
HP iC Keyboard (code: ED)	X	X	X
HP iC Keyboard (code: EE)	X	X	X
HP iC Keyboard (code: EF)	X	X	X
HP iC Keyboard (code: EG)	X	X	X
HP iC Keyboard (code: EH)	X	X	X
HP iC Keyboard (code: EI)	X	X	X
HP iC Keyboard (code: EJ)	X	X	X
HP iC Keyboard (code: EK)	X	X	X
HP iC Keyboard (code: EL)	X	X	X
HP iC Keyboard (code: EM)	X	X	X
HP iC Keyboard (code: EN)	X	X	X
HP iC Keyboard (code: EO)	X	X	X
HP iC Keyboard (code: EP)	X	X	X
HP iC Keyboard (code: EQ)	X	X	X
HP iC Keyboard (code: ER)	X	X	X
HP iC Keyboard (code: ES)	X	X	X
HP iC Keyboard (code: ET)	X	X	X
HP iC Keyboard (code: EU)	X	X	X
HP iC Keyboard (code: EV)	X	X	X
HP iC Keyboard (code: EW)	X	X	X
HP iC Keyboard (code: EX)	X	X	X
HP iC Keyboard (code: EY)	X	X	X
HP iC Keyboard (code: EZ)	X	X	X
HP iC Keyboard (code: FA)	X	X	X
HP iC Keyboard (code: FB)	X	X	X
HP iC Keyboard (code: FC)	X	X	X
HP iC Keyboard (code: FD)	X	X	X
HP iC Keyboard (code: FE)	X	X	X
HP iC Keyboard (code: FF)	X	X	X
HP iC Keyboard (code: FG)	X	X	X
HP iC Keyboard (code: FH)	X	X	X
HP iC Keyboard (code: FI)	X	X	X
HP iC Keyboard (code: FJ)	X	X	X
HP iC Keyboard (code: FK)	X	X	X
HP iC Keyboard (code: FL)	X	X	X
HP iC Keyboard (code: FM)	X	X	X
HP iC Keyboard (code: FN)	X	X	X
HP iC Keyboard (code: FO)	X	X	X
HP iC Keyboard (code: FP)	X	X	X
HP iC Keyboard (code: FQ)	X	X	X
HP iC Keyboard (code: FR)	X	X	X
HP iC Keyboard (code: FS)	X	X	X
HP iC Keyboard (code: FT)	X	X	X
HP iC Keyboard (code: FU)	X	X	X
HP iC Keyboard (code: FV)	X	X	X
HP iC Keyboard (code: FW)	X	X	X
HP iC Keyboard (code: FX)	X	X	X
HP iC Keyboard (code: FY)	X	X	X
HP iC Keyboard (code: FZ)	X	X	X
HP iC Keyboard (code: GA)	X	X	X
HP iC Keyboard (code: GB)	X	X	X
HP iC Keyboard (code: GC)	X	X	X
HP iC Keyboard (code: GD)	X	X	X
HP iC Keyboard (code: GE)	X	X	X
HP iC Keyboard (code: GF)	X	X	X
HP iC Keyboard (code: GG)	X	X	X
HP iC Keyboard (code: GH)	X	X	X
HP iC Keyboard (code: GI)	X	X	X
HP iC Keyboard (code: GJ)	X	X	X
HP iC Keyboard (code: GK)	X	X	X
HP iC Keyboard (code: GL)	X	X	X
HP iC Keyboard (code: GM)	X	X	X
HP iC Keyboard (code: GN)	X	X	X
HP iC Keyboard (code: GO)	X	X	X
HP iC Keyboard (code: GP)	X	X	X
HP iC Keyboard (code: GQ)	X	X	X
HP iC Keyboard (code: GR)	X	X	X
HP iC Keyboard (code: GS)	X	X	X
HP iC Keyboard (code: GT)	X	X	X
HP iC Keyboard (code: GU)	X	X	X
HP iC Keyboard (code: GV)	X	X	X
HP iC Keyboard (code: GW)	X	X	X
HP iC Keyboard (code: GX)	X	X	X
HP iC Keyboard (code: GY)	X	X	X
HP iC Keyboard (code: GZ)	X	X	X
HP iC Keyboard (code: HA)	X	X	X
HP iC Keyboard (code: HB)	X	X	X
HP iC Keyboard (code: HC)	X	X	X
HP iC Keyboard (code: HD)	X	X	X
HP iC Keyboard (code: HE)	X	X	X
HP iC Keyboard (code: HF)	X	X	X
HP iC Keyboard (code: HG)	X	X	X
HP iC Keyboard (code: HH)	X	X	X
HP iC Keyboard (code: HI)	X	X	X
HP iC Keyboard (code: HJ)	X	X	X
HP iC Keyboard (code: HK)	X	X	X
HP iC Keyboard (code: HL)	X	X	X
HP iC Keyboard (code: HM)	X	X	X
HP iC Keyboard (code: HN)	X	X	X
HP iC Keyboard (code: HO)	X	X	X
HP iC Keyboard (code: HP)	X	X	X
HP iC Keyboard (code: HQ)	X	X	X
HP iC Keyboard (code: HR)	X	X	X
HP iC Keyboard (code: HS)	X	X	X
HP iC Keyboard (code: HT)	X	X	X
HP iC Keyboard (code: HU)	X	X	X
HP iC Keyboard (code: HV)	X	X	X
HP iC Keyboard (code: HW)	X	X	X
HP iC Keyboard (code: HX)	X	X	X
HP iC Keyboard (code: HY)	X	X	X
HP iC Keyboard (code: HZ)	X	X	X
HP iC Keyboard (code: IA)	X	X	X
HP iC Keyboard (code: IB)	X	X	X
HP iC Keyboard (code: IC)	X	X	X
HP iC Keyboard (code: ID)	X	X	X
HP iC Keyboard (code: IE)	X	X	X
HP iC Keyboard (code: IF)	X	X	X
HP iC Keyboard (code: IG)	X	X	X

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Standard Features and Configurable Components (availability may vary by country)

Master Business Center

Manageability

- HP Drive Lock
- HP System Restore Manager (SRM)
- HP BIOS Configuration Utility (BCU)
- HP iLO for Pro (optional)
- LANBIOS Management
- HP BIOS Assistant

Standard Security Software

HP Smart Security

- HP Security Manager (including Credential Manager and Password Manager)
- HP Drive Lock
- HP Password Manager
- Advanced Protection Module
- Play-On-Authorization

Physical Defense

Physical Security (optional) (available in only)

Standard

TPM 2.0 Embedded Security Chip (UEFI BIOS) - European Countries (UK) - Certified

For more information on HP Smart Security Software Suite, refer to <http://www.hp.com/go/ssa>.

- Available only on business PCs with HP BIOS.
- Also include a manual recovery disk that copies of BIOS are compressed or deleted.
- For the full BIOS utility for the 3rd level utility of standards and technology (optional) (SRM).
- Requires BIOS user setup.
- Security agent is a type of kernel or kernel will be available when customers update a purchased description. Subscriptions can be purchased for the next major update year. Similar to Windows, check with available for availability outside the U.S. The Windows Security feature is available only on Windows 10. Certain conditions apply. For full details, refer to <http://www.microsoft.com/windows/windows-security>.
- HP BIOS Assistant is a utility that helps you manage BIOS settings. It is available for download from the HP website. Customers must first sign a license agreement with the utility. A PIN or activation code or more HP BIOS Assistant from the HP website is required. A license key is required to use the utility on a PC or server. For more information, refer to <http://www.hp.com/go/biosassistant>.
- Requires an internet connection for the HP Smart Security Manager (SSM) to connect to the HP website for updates. Supported operating systems and other HP Smart Security Manager details, see <http://www.hp.com/go/ssm>. Features and availability in your area. For more information, refer to <http://www.hp.com/go/ssm>. Check with your reseller for complete and availability in your area. For more information, refer to <http://www.hp.com/go/ssm>.
- SSM is not offered in China.
- Not available. However, available for download at <http://www.hp.com/go/psm>.
- See <http://www.hp.com/go/psm>.
- SSM and SSM are not available for updates.

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Standard Features and Configurable Components (availability may vary by country)

HP BIOS

Key features of the HP BIOS include:

- Deployment and manageability - HP BIOS provides several technologies that help bring the HP Elite 705 G3 Business PC into the workplace, such as UEFI, remote configuration (remote BIOS), and UEFI setup support for 13 languages.
- Update your BIOS via the cloud or downloadable as a BIOS version tool or firmware update.
- Stability - HP BIOS supports the HP stability product feature by enabling only critical BIOS changes in the factory and advanced change notifications.
- BIOS specifications 2.0
- Advanced Protection Module - The Advanced Protection Module, available in select countries, requires software and purchase of a security device is required.
- The Intel vPro power management - The HP BIOS provides and enables thermal and power management technologies to component temperatures are managed for high reliability and to assist in opening the HP Business Desktop computer in an enterprise environment.
- Advanced performance - Intel's leading server processors work the range of up to 4000 MHz.
- Security - HP BIOS provides diagnostic and recovery features for the system. Selecting BIOS updates from within Windows (HPBIOSUPDATE), HP Cloud Manager, and HP BIOS Assistant. Additionally, HP BIOS Assistant provides a secure and reliable update of BIOS settings. For more information, refer to <http://www.hp.com/go/biosassistant>.
- HP BIOS user setup utility - The HP BIOS Assistant provides a user-friendly interface for updating the BIOS. It is available from within the BIOS. It is available from the HPBIOSUPDATE.
- BIOS update from UEFI.
- BIOS update from UEFI.
- BIOS update from UEFI.
- BIOS update from UEFI.

Additional HP BIOS Features

- Power On Protection - Helps prevent an unauthorized user from accessing the system.
- Advanced Protection Module - Adds Smart Guard BIOS protection, which uses and stores that is a digital signature to the system configuration. It is available as a download or a USB drive. The BIOS update can be changed and changes cannot be made to BIOS settings using UEFI or the HP BIOS Assistant.
- Advanced Configuration and Power Interface (ACPI) - Improves system power and configuration management. It is available from within the BIOS. It is available from the HPBIOSUPDATE.

See the Power Setup utility for more information on the BIOS. For more information, refer to <http://www.hp.com/go/bios>.

- Power to sleep
- Wake on LAN
- USB charging ports

Standard Features Available in All Countries

- BIOS integrity checking - Some BIOS updates require that only a specific BIOS code is available and not others, which will maintain the BIOS integrity. See <http://www.hp.com/go/bios>.
- See the BIOS update utility for more information on the BIOS update or a download for more information on the BIOS update.
- Power On Protection - Helps prevent an unauthorized user from accessing the system.
- Advanced Protection Module - Adds Smart Guard BIOS protection, which uses and stores that is a digital signature to the system configuration. It is available from within the BIOS. It is available from the HPBIOSUPDATE.
- BIOS update from UEFI - The HP BIOS Assistant provides a user-friendly interface for updating the BIOS. It is available from within the BIOS. It is available from the HPBIOSUPDATE.

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Standard Features and Configurable Components (availability may vary by country)

and Configurable

AND DASH CAPABLE

The DASH interface is designed to assist in the remote management of certain desktop networked PCs, such as monitoring live operating systems, monitoring computer system health, agent control, and power usage monitoring, and event handling. DASH is a new hardware technology that is available as an additional requirement for purchase of the HP Elite 705 G3 Business Desktop Business PC. For more information, refer to <http://www.hp.com/go/dash>.

DASH has been designed to extend many of the DASH and control of previous management solutions by leveraging web-based technologies from the Service Based Interface (SBI) family, which focuses on security, scalability, and addressability. DASH is designed to be easy to use and easy to integrate.

DASH is a web-based management interface and relies on secure and robust routing services for use with web-based administrators.

Key Features

- Secure availability without the requirement of a dedicated operating system or system power state
- Manageability features allowing SMI capabilities for system status and management control
- Develop the data model allowing for the discovery of live device location (physical or virtual) or remote specific extensions to system profiles
- Web interface to support live security (HTTPS) and agent installation (available with optional TLS client/server certificate support)
- Secure setup with support for multiple DASH users and multiple access roles (administrator, operator, viewer)
- Control DASH logs for specific information
- Monitor and inventory details of the managed devices

Management Profile

A management profile is a specification that defines a collection of behaviors and characteristics for addressing a particular management concern.

A profile consists of the following information:

- A data model representing the problem domain that consists of objects, properties and methods exposed by the profile
- User cases to be addressed by the profile
- Views required to resolve the data model and derive results

There is a substantial block of new profiles become available, in fundamental changes are introduced to the DASH ecosystem, the DASH implementation (Service Based Interface) is updated to reflect a new version of the standard. Profiles are currently being developed by DASH and DASH is designed to support them as they become available.

AND DASH MANAGEMENT

- Web Console
- Web Agent
- Web Inventory
- Power State Management
- Web Alerts

Includes DASH 1.2 Capabilities

- System Health
- Agent Presence
- UEFI BIOS Update

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Standard Features and Configurable Components (availability may vary by country)

Standard Configuration

Key Features

- HP 705
- HP 705
- HP 705
- HP 705
- HP 705
- HP 705
- HP 705
- HP 705
- HP 705

Key Features

- Data Backup and Restore Profile
- Profile Migration Profile
- Role Based Access Control Profile
- Single Identity Management Profile
- WS-Management User Interface
- WS-Management Client Profile
- WS-Management Server Profile
- UEFI Profile
- Power State Management Profile
- System Health Profile

SECURITY

Trusted Platform Module (TPM) 2.0 (optional) (available in only)

TPM 2.0 (optional) (available in only)

Secure Boot

AND configuration (optional)

For full details, refer to <http://www.hp.com/go/bios>.

Power On Protection (optional)

For full details, refer to <http://www.hp.com/go/bios>.

Advanced Protection Module (optional)

For full details, refer to <http://www.hp.com/go/bios>.

POWER SUPPLY

Standard Efficiency	HP		HP Elite 705 G3 Business Desktop Business PCs	
	HP	HP	HP	HP
	200W active PFC (80% efficient)	200W active PFC (80% efficient)	N/A	200W active PFC (80% efficient)
HP Elite 705 G3	200W active PFC (80% efficient)	200W active PFC (80% efficient)	N/A	200W active PFC (80% efficient)
HP Elite 705 G3	200W active PFC (80% efficient)	200W active PFC (80% efficient)	N/A	200W active PFC (80% efficient)
HP Elite 705 G3	200W active PFC (80% efficient)	200W active PFC (80% efficient)	N/A	200W active PFC (80% efficient)

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Standard Features and Configurable Components (availability may vary by country)

	2015/2016 model at 120V/1500W load (11.1A)	2015/2016 model at 120V/1800W load (15.0A)	2015/2016 model at 230V/1500W load (6.5A)	2015/2016 model at 230V/1800W load (7.8A)
Operating Voltage Range	100 - 240 VAC	100 - 240 VAC	100 - 240 VAC	100 - 240 VAC
Rated Voltage Range	100 - 240 VAC	100 - 240 VAC	100 - 240 VAC	100 - 240 VAC
Rated Line Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Powering Line Frequency	47 - 63 Hz	47 - 63 Hz	47 - 63 Hz	47 - 63 Hz
Efficiency (EPCoC)	0.94	0.94	0.94	0.94
Rated Power (Source with Energy Star 6.0) Power Supply	18	18	18	18
EC Output	12V	12V	12.1V	12.1V
Ground Leakage (mA rms)	Less than 100 microamps of leakage current at 120 VAC with the ground wire disconnected, as required for Non-polluted Class of Locations and equipment used in a normal duty facility or that meets conditions in normal use. For section 10.3.5.1.	Less than 100 microamps of leakage current at 120 VAC with the ground wire disconnected, as required for Non-polluted Class of Locations and equipment used in a normal duty facility or that meets conditions in normal use. For section 10.3.5.1.	Less than 100 microamps of leakage current at 120 VAC with the ground wire disconnected, as required for Non-polluted Class of Locations and equipment used in a normal duty facility or that meets conditions in normal use. For section 10.3.5.1.	Less than 100 microamps of leakage current at 120 VAC with the ground wire disconnected, as required for Non-polluted Class of Locations and equipment used in a normal duty facility or that meets conditions in normal use. For section 10.3.5.1.

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Standard Features and Configurable Components (availability may vary by country)

Power Supply Fan	Power-on/off speed	Power-on/off speed	Power-on/off speed	PSU
Power-on/off speed	0.8 Hz (0.81 m/s)	0.8 Hz (0.81 m/s)	N/A	0.8 Hz (0.81 m/s)
Internal power supply fan	Internal power supply	Internal power supply	N/A	Internal power supply

WEIGHTS & DIMENSIONS

Weights & Dimensions
(configured with 100W & 1,500-WH configured with 1,500-watt)

	422	477	488
Depth (H x D x H)	18.5 x 12.3 x 1.95 in 206 x 258 x 198 mm Standard (empty)	17.7 x 11.4 x 1.95 in 177 x 293 x 198 mm 36.1521 (Maximum)	7 x 6.59 x 1.2 in 177 x 173 x 30 mm 46.0 (max) (Maximum)
System Volume	180 T (max)	128 T (max)	40.75 (max)
System Weight*	14.5 lbs 20.5 kg	14.5 lbs 15.7 kg	13.5 lbs 1.5 kg
Max Supported Weight (Desktop installation)	17 lbs 20.5 kg	17 lbs 15.7 kg	N/A
Power Stand (H x D x H)	21 x 7.8 x 5.3 in 118 x 200 x 40 mm	20.5	2.3 x 6.3 x 7.7 in 112 x 160 x 195.5 mm
Packaging (H x D x W)	640 x 194 x 20.7 in 1626 x 495 x 527 mm	11.7 x 12.4 x 16.4 in 296 x 317 x 416 mm	7.8 x 11.4 x 15.7 in 198 x 290 x 400 mm
Min level Packaging (H x W x D)			25.58 x 11.85 x 27.84 in 650 x 300 x 708 mm
Shipping Weight (Fully loaded)			28.06 (Maximum)
Shipping Weight (Fully loaded)	17.85 lbs 20.5 kg	17.58 lbs 19.75 kg	9.2 lbs 4.1 kg
Protection Profile	4-coat per layer 10-layer max. 10-coat per panel	4-coat per layer 8-layer max. 10-coat per panel	2-coat per layer 10-layer max 10-layer per panel

ENVIRONMENTAL & INDUSTRY

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HP Elite 705 G3 Business Desktop Business PCs

Standard Features and Configurable Components (availability may vary by country)

- ENERGY STAR certified models available.
- ENERGY STAR model where applicable is required. See www.epr.com for regulatory details by country.
- Low halogen plastics, all major components and housings*.
- 100% compliant models available.
- * For more power supplies, power cords, cables and peripherals, see our Low Halogen - Flexible parts checklist at hp.com or see our Low Halogen

UNIT ENVIRONMENT AND OPERATING CONDITIONS

Source: Unit Operating Guidelines

- Keep the computer away from heat and direct sunlight. Do not maintain wall-to-wall contact with the computer. Do not place the computer on a carpeted floor.
- Leave a 10.2 cm (4 in) clearance around all sides of the computer to permit the required airflow.
- Never use a fan filter in the computer or blocking any vents or air filters.
- Do not stack more than one top of each other in place. Computers should each sit on a surface that they are designed for. Each other's is considered prohibited.
- Discontinue use if the fan is visible on the front, back, and any other side of the computer. Fan, dust and other foreign matter can block the vents and limit the airflow.
- If the computer is to be installed within an enclosure, cabinet, rack or other installation, the manufacturer's specifications and the manufacturer's guidelines must be followed. See the enclosure and the manufacturer's guidelines for details on installation.

Temperature Range	Operating: 5°C to 35°C (41°F to 95°F) Non-operating: -20° to 140° F (-30° to 100° F)
Relative Humidity	Operating: 10% to 90% (non-condensing and sealed) Non-operating: 5% to 95% (non-condensing and sealed)
Maximum Altitude (operational)	Operating: 1000m Non-operating: 5000m (15249 ft)

* Maximum temperature is defined as 1.0 day (1 per 100 h) at 2000 F (1093 C) or 2500 F (1371 C) above sea level, with direct sunlight. Maximum is at 1000 ft (300 m). The upper limit may be limited by the type and number of optical drives.

SERVICE AND SUPPORT

On-site (Warranty): Three-year (3 - 3) limited warranty delivers the services you need, anytime, day 1 service for parts, labor and on-site hardware repair (includes support). Three-year warranty not labor and parts available in all countries. Service offers extend up to 5 years by having an optional HP Care Pack. To choose the right level of service for your HP product, visit HP Care Pack Central, www.hp.com/go/cpc

NOTE 1: To be used available in availability by country. Certain restrictions and exclusions apply. Offer features and services may be altered by your region.

NOTE 2: On-site service may be provided per hour to a maximum of 4 hours between 9 P.M. and an adjacent HP 24x7 party location. On-site not available in certain countries. Global remote response times are based on geographical location and local time zone. May vary by country.

NOTE 3: Technical telephone support applies only to HP-configured and third-party HP-certified hardware and software.

NOTE 4: Service levels and response times may vary depending on your geographic location. Service hours may vary by country. Service hours and technical support for service, like warranty coverage, may vary by country. Service hours may vary by the available HP Care Pack and service level of support if provided or indicated by the manufacturer at the time of purchase.

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HP Elite 705 G3 Business Desktop Business PCs

Standard Features and Configurable Components (availability may vary by country)

Customer may require additional restrictions or restrictions apply other local laws, and such rights are hereby affected by the HP terms and conditions of service or the United Kingdom as provided with your HP Product.

COUNTRY OF ORIGIN

China
AMS repair products Mexico and USA

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HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Graphics

AMD Radeon™ RX 460 2GB PCIe x16

Memory 2GB DDR4 cache based buffer operating at 1750MHz
Controller Clock Speed AMD Radeon™ RX 460 GPU operating at 1.2 GHz
MultiDisplay Support A maximum of 4 displays are supported by the card
OpenGL API Support OpenGL 4.5, OpenCL 2.0, DirectX 12
Output Connectors 1 x DisplayPort, 1 x DVI-D

Resolution	Refresh Rate*	DVI-D	DisplayPort	Standard
640 x 480	60, 75, 85	X	X	MSA DMT, CRT 0.2140
800 x 600	75	X	X	MSA DMT
1024 x 600	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1024 x 768	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1280 x 800	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1366 x 768	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1440 x 900	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1600 x 900	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1680 x 1050	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1920 x 1080	60, 75, 85	X	X	MSA DMT, CRT 0.2140
2560 x 1600	60, 75, 85	X	X	MSA DMT, CRT 0.2140
3840 x 2160	60, 75, 85	X	X	MSA DMT, CRT 0.2140

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Graphics

Resolution	Refresh Rate*	DVI-D	DisplayPort	Standard
640 x 480	25		X	CVT-RB v1.2 (0.2140) 40, SMPTE 219M
640 x 480	30		X	CVT-RB v1.2 (0.2140) 40, SMPTE 219M
640 x 480	60		X	CVT-RB v1.2 (0.2140) 40, SMPTE 219M
640 x 480	75		X	CVT-RB v1.2 (0.2140) 40, SMPTE 219M
800 x 600	25		X	CVT-RB v1.2 (0.2140) 40, SMPTE 219M
800 x 600	30		X	CVT-RB v1.2 (0.2140) 40, SMPTE 219M
800 x 600	60		X	CVT-RB v1.2 (0.2140) 40, SMPTE 219M
800 x 600	75		X	CVT-RB v1.2 (0.2140) 40, SMPTE 219M
1024 x 768	25		X	CVT-RB v1.2 (0.2140) 40, SMPTE 219M
1024 x 768	30		X	CVT-RB v1.2 (0.2140) 40, SMPTE 219M
1024 x 768	60		X	CVT-RB v1.2 (0.2140) 40, SMPTE 219M
1024 x 768	75		X	CVT-RB v1.2 (0.2140) 40, SMPTE 219M
1280 x 1080	60	X	X	MSA DMT, CRT 0.2140
1440 x 1080	60	X	X	MSA DMT, CRT 0.2140
1600 x 1080	60	X	X	MSA DMT, CRT 0.2140
1920 x 1080	24	X	X	MSA DMT, CRT 0.2140
1920 x 1080	48	X	X	MSA DMT, CRT 0.2140
1920 x 1080	60	X	X	MSA DMT, CRT 0.2140
2560 x 1600	60	X	X	MSA DMT, CRT 0.2140
3840 x 2160	60	X	X	MSA DMT, CRT 0.2140

*60 refresh rate only for analog (VGA) signaling

AMD Radeon™ RX 460 4GB PCIe x16

Memory 4GB DDR4 cache based buffer operating at 1750MHz
Controller Clock Speed AMD Radeon™ RX 460 GPU operating at 1.2 GHz
MultiDisplay Support A maximum of 4 displays are supported by the card
OpenGL API Support OpenGL 4.5, OpenCL 2.0, DirectX 12
Output Connectors 1 x DisplayPort, 1 x DVI-D

Resolution	Refresh Rate*	DVI-D	DisplayPort	Standard
640 x 480	60, 75, 85	X	X	MSA DMT, CRT 0.2140
800 x 600	75	X	X	MSA DMT
1024 x 600	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1024 x 768	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1280 x 800	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1600 x 900	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1920 x 1080	60, 75, 85	X	X	MSA DMT, CRT 0.2140

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HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Graphics

Resolution	Refresh Rate*	DVI-D	DisplayPort	Standard
640 x 480	60, 75, 85	X	X	MSA DMT, CRT 0.2140
800 x 600	75	X	X	MSA DMT
1024 x 600	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1024 x 768	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1280 x 800	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1366 x 768	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1440 x 900	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1600 x 900	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1680 x 1050	60, 75, 85	X	X	MSA DMT, CRT 0.2140
1920 x 1080	60, 75, 85	X	X	MSA DMT, CRT 0.2140
2560 x 1600	60, 75, 85	X	X	MSA DMT, CRT 0.2140
3840 x 2160	60, 75, 85	X	X	MSA DMT, CRT 0.2140

*60 refresh rate only for analog (VGA) signaling

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Graphics

AMD Radeon™ R7 470 2GB PCIe x8

Memory 2GB DDR4 cache based buffer operating at 1750MHz
Controller Clock Speed AMD Radeon™ R7 470 GPU operating at 1.0 GHz
MultiDisplay Support A maximum of 2 displays are supported by the card
OpenGL API Support OpenGL 4.5, OpenCL 2.0, DirectX 12
Output Connectors 1 x DisplayPort, 1 x VGA

Resolution	Refresh Rate*	VGA	DVI-D	DisplayPort	Standard
640 x 480	60, 75, 85	X	X	X	MSA DMT, CRT 0.2140
800 x 600	75	X	X	X	MSA DMT
1024 x 600	60, 75, 85	X	X	X	MSA DMT, CRT 0.2140
1024 x 768	60, 75, 85	X	X	X	MSA DMT, CRT 0.2140
1280 x 800	60, 75, 85	X	X	X	MSA DMT, CRT 0.2140
1366 x 768	60, 75, 85	X	X	X	MSA DMT, CRT 0.2140
1440 x 900	60, 75, 85	X	X	X	MSA DMT, CRT 0.2140
1600 x 900	60, 75, 85	X	X	X	MSA DMT, CRT 0.2140
1680 x 1050	60, 75, 85	X	X	X	MSA DMT, CRT 0.2140
1920 x 1080	60, 75, 85	X	X	X	MSA DMT, CRT 0.2140
2560 x 1600	60, 75, 85	X	X	X	MSA DMT, CRT 0.2140
3840 x 2160	60, 75, 85	X	X	X	MSA DMT, CRT 0.2140

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HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Graphics

DirectX 12.0	48.8	43.8		32
DirectX 11.0				32
DirectX 10.0				32

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Hard Disk and Solid State Storage

HARD DISK AND SOLID STATE STORAGE

Redundant Array of Independent Drives (RAID) - Support RAID 0 and 1

Drive Implementation:

- RAID 0 Striping
- RAID 1 Mirroring
- Configurable email alerts
- RAID management software
- Zero-wait-time can be enabled on physical hard drives while in RAID mode.
- The RAID Setup Utility (configured through BIOS) can be protected by the BIOS Setup password.

NOTE:

- HP only supports RAID 0
- RAID 1 is the only RAID configuration offered in factory configuration. On non-managed systems:
 - It is not possible to do the HP and RAID from factory. The HP form factors do not support RAID but they do not allow for multiple controller storage options.
 - Use complete RAID systems software for 6 drives or less.
 - Have the necessary system BIOS configuration.
 - Include a dedicated backup system that is independent of all the drives.

HP 2TB 5400 RPM SATA 6Gb/s 2.5" Hard Disk Drive*		
Formatted Capacity	1.7TB	
Rotational Speed	5,400RPM	
Interface	SATA 6 Gb/s	
Cache, Writeback/Read (MB)	8/40	
Seek Time (average)	Read	8.5ms
	Write	9.5ms
Height	9.5mm (3/8")	
Width	2.5" (63.5mm)	
Depth	6.9mm (1/4")	
Weight	0.24kg (1/2 lb)	
Operating Temperature	41° to 131° F (5° to 55° C)	

*NOTE: For hard drives and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB for Windows 10 if system disk is reserved for the system recovery software.

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Hard Disk and Solid State Storage

HP 1 TB 7.2K SATA 6.0Gb/s 2.5" Hard Disk Drive		
Capacity	1,000,000,000,000 bytes	
Rotational Speed	7,200 rpm	
Interface	SATA 6 Gb/s	
Cache Size	32 MB	
Logical Blocks	Single Track	2.0 ms
	Average	12 ms
	Full Stroke	21 ms
Seek Time (average)	6.3 ms (0.25 sec)	
Width (external)	Media Element	2.5" (63.5mm)
	Physical Size	2.5" (63.5mm)
Operating Temperature	41° to 131° F (5° to 55° C)	

*NOTE: For hard drives and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB for Windows 10 if system disk is reserved for the system recovery software.

HP 500 GB 7.2K SATA 6.0Gb/s 2.5" Hard Disk Drive*		
Capacity	500,000,000,000 bytes	
Rotational Speed	7,200 rpm	
Interface	SATA 6 Gb/s	
Cache Size	16 MB	
Logical Blocks	Single Track	2.0 ms
	Average	12 ms
	Full Stroke	21 ms
Seek Time (average)	6.3 ms (0.25 sec)	
Width (external)	Media Element	2.5" (63.5mm)
	Physical Size	2.5" (63.5mm)
Operating Temperature	41° to 131° F (5° to 55° C)	

*NOTE: For hard drives and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB for Windows 10 if system disk is reserved for the system recovery software.

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Hard Disk and Solid State Storage

Width (external)	Media Element	2.5" (63.5mm)
	Physical Size	2.5" (63.5mm)
Operating Temperature	41° to 131° F (5° to 55° C)	

*NOTE: For hard drives and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB for Windows 10 if system disk is reserved for the system recovery software.

500GB* 7.2K rpm SATA 6.0Gb/s 2.5" Hard Disk Drive		
Formatted Capacity	500,000,000,000 bytes	
Rotational Speed	7,200 rpm	
Interface	SATA 6 Gb/s	
Cache Size	16 MB	
Logical Blocks	Single Track	2.0 ms
	Average	12 ms
	Full Stroke	21 ms
Seek Time (average)	6.3 ms (0.25 sec)	
Height (external)	1.4" (35.4mm)	
Width (external)	Media Element	2.5" (63.5mm)
	Physical Size	2.5" (63.5mm)
Operating Temperature	41° to 131° F (5° to 55° C)	

*NOTE: For hard drives and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB for Windows 10 if system disk is reserved for the system recovery software.

HP 1 TB* 7.2K rpm SATA 6.0Gb/s 2.5" Hard Disk Drive*		
Formatted Capacity	1,000,000,000,000 bytes	
Rotational Speed	7,200 rpm	
Interface	SATA 6 Gb/s	
Cache Size	32 MB	
Logical Blocks	Single Track	2.0 ms
	Average	12 ms
	Full Stroke	21 ms
Seek Time (average)	6.3 ms (0.25 sec)	
Width (external)	Media Element	2.5" (63.5mm)
	Physical Size	2.5" (63.5mm)
Operating Temperature	41° to 131° F (5° to 55° C)	

*NOTE: For hard drives and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB for Windows 10 if system disk is reserved for the system recovery software.

QuickSpecs

HP Elite 705 G2 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

Media format	Media format: 3.5 inches Media type: 8 mm/12.5 mm
Operating Temperature	41° to 131° F (5° to 55° C)

* For hard disk and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB for Windows 7 and 32 GB for Windows 8.1/10 if system disk is reserved for the system recovery software.

HP 2 TB 7.2K rpm SATA 6.0Gb/s 3.5" Hard Disk Drive*		
Formatted Capacity	1 TB	
Rotational Speed	7,200 rpm	
Interface	SATA 6Gb/s/NCQ	
Cache, Mechanical (MB)	8 MB	
Seek Time (typical, ms)	Static	~8.5 ms
	Average	~11.5 ms
Height	1.82 (in) 46.35 mm	
Width	4.1 (in) 104 mm	
Depth	5.787 (in) 147.05 mm	
Weight	1.04 (kg) 2.30 lb	
Operating Temperature	32° to 149° F (0° to 60° C)	

*GB = 1 billion bytes and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB for Windows 7 and 32 GB for Windows 8.1/10 if system disk is reserved for the system recovery software.

QuickSpecs

HP Elite 705 G2 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

HP 500 GB SATA 6G 2.5" 8MB Solid State Hybrid Drive (SSHD)*		
Formatted Capacity	500 GB	
Rotational Speed	5,400 rpm (4.5-6.2K)	
Drive Type	Solid State Hybrid Drive (SSHD) technology with NAND Flash	
Interface	SATA 6 Gb/s	
Cache Buffer	64 MB	
528C Flash Commercial/Industrial/Cell S.M.A.R.T.	0.18	
Number of Sectors	95,173,188	
Seek Time (typical, ms)	Single Track	2.8 ms
	Average	12 ms
Height	0.68 (in) 17.27 (mm) (0.81 in) 20.57 (mm)	
Width	2.75 (in) 69.91 (mm) (0.81 in) 20.57 (mm)	
Length	3.89 (in) 98.81 (mm) (0.81 in) 20.57 (mm)	
Weight	0.20 (kg) 0.44 (lb)	
Operating Temperature	41° to 131° F (5° to 55° C)	

*GB = 1 billion bytes and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB for Windows 7 and 32 GB for Windows 8.1/10 if system disk is reserved for the system recovery software.

QuickSpecs

HP Elite 705 G2 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

HP 1 TB SATA 6G 2.5" 8GB Solid State Hybrid Drive (SSHD)*		
Formatted Capacity	1 TB	
Rotational Speed	5,400 rpm (4.5-6.2K)	
Drive Type	Solid State Hybrid Drive (SSHD) technology with NAND Flash	
Interface	SATA 6 Gb/s	
Cache Buffer	64 MB	
528C Flash Commercial/Industrial/Cell S.M.A.R.T.	0.18	
Number of Sectors	95,173,188	
Seek Time (typical, ms)	Single Track	2.8 ms
	Average	12 ms
Height	0.68 (in) 17.27 (mm) (0.81 in) 20.57 (mm)	
Width	2.75 (in) 69.91 (mm) (0.81 in) 20.57 (mm)	
Length	3.89 (in) 98.81 (mm) (0.81 in) 20.57 (mm)	
Weight	0.20 (kg) 0.44 (lb)	
Operating Temperature	32° to 149° F (0° to 60° C)	

* For hard disk and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB for Windows 7 and 32 GB for Windows 8.1/10 if system disk is reserved for the system recovery software.

HP 3-TB SATA 6G 3.5" 8MB Solid State Hybrid Drive (SSHD)*	
Formatted Capacity	1 TB
Rotational Speed	7,200 rpm
Drive Type	Solid State Hybrid Drive (SSHD) technology with NAND Flash
Interface	SATA 6Gb/s/NCQ
Cache Buffer	64 MB
528C Flash Commercial/Industrial/Cell S.M.A.R.T.	0.18
Number of Sectors	1,921,521,188

QuickSpecs

HP Elite 705 G2 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

Seek Time (typical, ms)	Single Track	2.8 ms
	Average	12 ms
Height	0.68 (in) 17.27 (mm)	
Width	4 (in) 101.6 mm	
Length	3.75 (in) 95.25 mm	
Weight	0.20 (kg) 0.44 (lb)	
Operating Temperature	41° to 131° F (5° to 55° C)	

*GB = 1 billion bytes and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB for Windows 7 and 32 GB for Windows 8.1/10 if system disk is reserved for the system recovery software.

SSDGB* 2.5" 7 FPS 140-J SED Solid State Drive*		
Formatted Capacity	800 GB	
Architecture	Self-Encrypting (SED) Solid State Drive with SATA Interface	
Interface	SATA 6 Gb/s/NCQ	
Cache Buffer	2.5 MB	
Height	0.68 (in) 17.27 (mm)	
Width	69.85 (mm) 2.75 (in)	
Length	140.35 (mm) 5.52 (in) 20 (mm)	
Weight (typical)	~95 g 0.20 (lb)	
Seek Time (typical, ms)	Single Track	1.5 (ms) to 1.8 (ms)
	Average	6 (ms) to 7 (ms)
Power	Power consumption Idle: max. 0.70W Sleep: 0.10W	
Environmental 38 conditions, 400+ operating days	Operating Temperature	32° to 149° F (0° to 60° C)
	Relative Humidity	1% to 10%
	Shock	Random: 0.80 GZ

QuickSpecs

HP Elite 765 G3 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

NOTE: For hard drives and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB for Windows 7 and 32 GB for Windows 8.1 (16 GB of space is reserved for the system recovery software).

500 GB* SATA 3.0* Self-Encrypting (SED) Opal 2 Solid State Drive*		
Unformatted Capacity	500 GB	
Architecture	Self-Encrypting (SED) Solid State Drive with 3D NAND Flash and SATA interface	
Interface	Serial ATA 6.3 Gb/s	
Form Factor	2.5-inch, 9.5mm	
Height	12.7 mm	
Width	69.85 mm ± 0.25	
Length	100.20 mm ± 0.25	
Weight	45.4 g (0.1 lb)	
End-to-End Performance	Sustained Sequential Read	Up to 450 MB/s
	Sustained Sequential Write	Up to 300 MB/s
	Random Read IOPS	Up to 80k IOPS
	Random Write IOPS	Up to 50k IOPS
Latency	Read	1.5 µs
	Write	33.0 µs
Power	SATA 3.0 power consumption: 1.60 W (Active), 0.50 W (Idle), 0.20 W (Sleep)	
Warranty	3YR On-site up to 4GB/day for 5 years	
	Operating Temperature	0° to 35° or 0° to 50° C
Environmental (EIS conditions, non-condensing)	Relative Humidity	5% to 95%
	Shock	1,500 G/0.5 ms
	Vibration	1,500 G/0.5 ms

QuickSpecs

HP Elite 765 G3 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

NOTE: For hard drives and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB for Windows 7 and 32 GB for Windows 8.1 (16 GB of space is reserved for the system recovery software).

256 GB SATA 2.5" Opal2 SED Solid State Drive*		
Unformatted Capacity	256 GB	
Architecture	Self-Encrypting (SED) Solid State Drive with 3D NAND Flash and SATA interface	
Interface	Serial ATA 6.3 Gb/s	
Form Factor	2.5 inch	
Height	9.85 mm ± 0.25	
Width	69.85 mm ± 0.25	
Length	100.20 mm ± 0.25	
Weight	Up to 75 g	
End-to-End Performance	Sustained Sequential Read	Up to 420 MB/s
	Sustained Sequential Write	Up to 180 MB/s
Power	Power consumption: Active: 3.07W, Idle: 0.60W	
Mean Time Between Failure (MTBF)	1,000,000 hours	
Environmental (EIS conditions, non-condensing)	Operating Temperature	0° to 35° or 0° to 50° C
	Relative Humidity	5% to 95%
	Shock	1,500 G/0.5 ms

NOTE: For hard drives and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB for Windows 7 and 32 GB for Windows 8.1 (16 GB of space is reserved for the system recovery software).

QuickSpecs

HP Elite 765 G3 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

512 GB SATA 2.5" Opal2 SED Solid State Drive*		
Unformatted Capacity	512 GB	
Architecture	Self-Encrypting (SED) Solid State Drive with 3D NAND Flash and SATA interface	
Interface	Serial ATA 6.3 Gb/s	
Form Factor	2.5-inch	
Height	9.85 mm ± 0.25	
Width	69.85 mm ± 0.25	
Length	100.20 mm ± 0.25	
Weight	Up to 75 g	
End-to-End Performance	Sustained Sequential Read	Up to 500 MB/s
	Sustained Sequential Write	Up to 300 MB/s
Power	Power consumption: Active: 3.07W, Idle: 0.60W	
Mean Time Between Failure (MTBF)	1,000,000 hours	
Environmental (EIS conditions, non-condensing)	Operating Temperature	0° to 35° or 0° to 50° C
	Relative Humidity	5% to 95%
	Shock	1,500 G/0.5 ms

NOTE: For hard drives and solid state drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB for Windows 7 and 32 GB for Windows 8.1 (16 GB of space is reserved for the system recovery software).

QuickSpecs

HP Elite 765 G3 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

512GB SATA 2.5" Opal2 SED Solid State Drive		
Unformatted Capacity	512 GB	
Architecture	Self-Encrypting (SED) Solid State Drive with 3D NAND Flash and SATA interface	
Interface	Serial ATA 6.3 Gb/s	
Form Factor	2.5 inch	
Height	9.85 mm ± 0.25	
Width	69.85 mm ± 0.25	
Length	100.20 mm ± 0.25	
Weight	Up to 75 g	
End-to-End Performance	Sustained Sequential Read	Up to 500 MB/s
	Sustained Sequential Write	Up to 300 MB/s
Power	Power consumption: Active: 3.10W / 3.07W, Idle: 0.60W / 0.60W	
Mean Time Between Failure (MTBF)	1,000,000 hours	
Environmental (EIS conditions, non-condensing)	Operating Temperature	0° to 35° or 0° to 50° C
	Relative Humidity	5% to 95%
	Shock	1,500 G/0.5 ms

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Hard Disk and Solid State Storage

500GB 7200 RPM SATA 3.5" Self-Encrypting (SED) Hard Disk Drive		
Capacity	500,107,807,808 bytes	
Rotational Speed	7,200 rpm	
Disk Type	Self-Encrypting Drive (SED) with SATA interface	
Interface	SATA 3.0 Gb/s	
Segmented buffer with write cache	32768 KB - A portion of write capacity used for buffering	
Number of Features	576,773,168	
Seek Time (typical seek)	Single Track	1.8 ms
	Average	11.7 ms
	Full Stroke	23 ms
Platter Rotation	2.38ms/1 rev	
Height	8.27 inches max, w/2mm	
Width	2.75 inches max, w/2mm	
Length	3.94 inches max, w/2mm	
Weight	0.34 lbs (155 grams)	
Operating Temperature	41° to 131° F (5° to 55° C)	

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Hard Disk and Solid State Storage

148GB SATA 3.5" Optio SED Solid State Drive (Pro 148GB)		
Unformatted Capacity	248 GB	
Architecture	Tandem Scale Drive with TLC NAND Flash and SATA Interface. Fully compliant with GBAVATURE 1.02 (NAND Capability Controller with ATA/ATAPI-8) Power Loss Protection (PLP) (Provisional) (Service model). Supports ECC - Up to 32 bytes. Transparent Signal Recovery.	
Interface	SATA6 Gb/s (SATA III) (Native SATA Specifications 3.0)	
Form Factor	3.5 inch	
Height	1.41 inch height	
Width	6.89 inches x 3.25	
Length	1.9045 inch max	
Weight	Up to 45g	
Sequential Performance	Sustained Sequential Read	Up to 140 MB/s
	Sustained Sequential Write	Up to 115 MB/s (burst up to 300 MB/s)
Power	Power consumption: Active - typical 1.5 Watts, Idle - typical 0.4 W	
Environmental (all conditions, non-condensing)	Operating Temperature	32° to 158° F (0° to 70° C)
	Relative Humidity	5% to 95%
	Shock	1,500 G/0.5 ms

HP 128 GB Turbo Drive SSD - M.2 PCIe Drive*	
Unformatted Capacity	128 GB
Interface	M.2 PCIe Gen 2
Architecture	Tandem Scale Drive M.2 PCIe Gen 2 with NAND Controller
Form Factor	M.2 2280

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Hard Disk and Solid State Storage

Dimensions (Width x Height x Thickness)	203 x 11.43 x 246.04 (8.00 x 3.71 inch)	
Weight	0.0178 lbs (8.10 g)	
Sequential Performance	Sustained Sequential Read (7200 RPM)	Up to 140 MB/s
	Sustained Sequential Write (7200 RPM)	Up to 115 MB/s
Random Access Performance	Random Access Read	40 to 60 IOPS
	Random Write (7200)	40 to 50 IOPS
Power	Power consumption: Standby (idle) 0.4 W (typical), Full Stroke (idle) 0.8 W (typical), Full Stroke (write) 1.5 W (typical)	
MTBF	1.5M hours	
Environmental (all conditions, non-condensing)	Operating Temperature	32° to 158° F (0° to 70° C)
	Relative Humidity (non-condensing)	5% to 95%
	Shock	1,500 G
Regulatory	Safety Class (UL/CSA/UL)	EUR
		UL, CE
		C-UL, UL
		UL
	EMC/RE	CE, FCC
		SRM (Taiwan) KCC (South Korea) VCCI (Japan) C-Tick (Australia) PSE (India)

*Note: For hard drives and solid state drives, 1B = 1 billion bytes, 1K = 1,024 bytes. Actual formatted capacity is less than the unformatted capacity. For the Windows 10 OS, the Windows 10 OS requires 20 GB of free space for the operating system. For the Windows 11 OS, the Windows 11 OS requires 64 GB of free space for the operating system.

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Hard Disk and Solid State Storage

HP 256 GB Turbo Drive SSD - M.2 PCIe Drive*		
Unformatted Capacity	256 GB	
Architecture	Tandem Scale Drive M.2 PCIe Gen 2 with NAND Controller	
Interface	M.2 PCIe Gen 2	
Form Factor	M.2 2280	
Height	7 mm x 0.21	
Width	2 inch x 0.58	
Length	68 mm x 6.75	
Weight (typical)	10 to 11 g	
Data Transfer Rate (7200 sequential)	Sequential Read	Up to 210 MB/s
	Sequential Write	Up to 100 MB/s
Power Usage	Power consumption (typical)	Read: 1.5 W Read: 4 W Write: 5.1 W Standby: 100 mW Idle: 18 mW
	Power consumption (peak)	1.5 W
Environmental (all conditions, non-condensing)	Operating Temperature	32° to 158° F (0° to 70° C)
	Relative Humidity	5% to 95%
	Vibration (random)	1.00ms peak acceleration

*Note: For hard drives and solid state drives, 1B = 1 billion bytes, 1K = 1,024 bytes. Actual formatted capacity is less than the unformatted capacity. For the Windows 10 OS, the Windows 10 OS requires 20 GB of free space for the operating system. For the Windows 11 OS, the Windows 11 OS requires 64 GB of free space for the operating system.

QuickSpecs

HP Elite 785 G3 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

HP S110GE Turbo Drive G3 SSD - M.3 PCIe Drive*	
Unformatted Capacity	250 GB
Architecture	Solid State Drive with TLC NAND Flash and PCIe Interface. Complies with SATA Standard.
Interface	PCIe Gen3 x4 NVMe
Form Factor	M.2 2280 (B)
Height	27 mm ± 0.10
Width	22 mm ± 0.08
Length	85 mm ± 0.15
Weight (packed)	Up to 14 g
Data Transfer Rate (SATA Sequential)	Sequential Read: Up to 2100 MB/s Sequential Write: Up to 1500 MB/s
Power	Power consumption (avg): Read: 4.5 W Write: 6.5 W Standby: 100 mW Idle: 2.0 W
Environmental (all conditions, non-condensing)	Operating Temperature: 0° to 70° F (0° to 17° C) Relative Humidity: 5% to 95% Shock: 1500 G, 2 ms (1000 G, 2 ms)

*NOTE: For best performance and reliability, use SATA Gen3 x4. SATA Gen3 x4 is not supported. SATA Gen3 x4 is not supported. SATA Gen3 x4 is not supported.

QuickSpecs

HP Elite 785 G3 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

128GB Turbo Drive G2 TLC Non-SED Solid State Drive	
Unformatted Capacity	128 GB
Architecture	Solid State Drive with TLC NAND Flash and SATA Interface. Complies with SATA Standard. Power Saving Mode (L1) and SATA support. Multi-Stream support.
Interface	SATA Gen3 x6
Form Factor	3.5" 2.5"
Height	1.13 mm
Width	22.86 ± 0.02 mm
Length	80.00 ± 0.05 mm
Weight	Up to 8 g
Read/Write Performance	Sequential Read (1 MB): Up to 1000 MB/s Sustained Sequential Write: Up to 900 MB/s
Power	Power consumption (avg): Active: Typical 6.5 W Idle: Typical 1.7 W L1: Typical 2.5 W
Mean Time Between Failure (MTBF)	1,000,000 hours
Environmental (all conditions, non-condensing)	Operating Temperature: 0° to 70° F (0° to 17° C) Relative Humidity: 5% to 95% Shock: 1,500 G, 2 ms

QuickSpecs

HP Elite 785 G3 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

256GB Turbo Drive G2 TLC OPAL2.0 SED Solid State Drive	
Unformatted Capacity	256 GB
Architecture	Solid State Drive with TLC NAND Flash and SATA Interface. Complies with SATA Standard. Power Saving Mode (L1) and SATA support. Multi-Stream support. OPAL 2.0 compliance.
Interface	SATA Gen3 x6
Form Factor	3.5" 2.5"
Height	1.13 mm
Width	22.86 ± 0.02 mm
Length	80.00 ± 0.05 mm
Weight	Up to 8 g
Read/Write Performance	Sequential Read (1 MB): Up to 1000 MB/s Sustained Sequential Write: Up to 900 MB/s
Power	Power consumption (avg): Active: Typical 6.5 W Idle: Typical 2.5 W L1: Typical 2.5 W
Mean Time Between Failure (MTBF)	1,000,000 hours
Environmental (all conditions, non-condensing)	Operating Temperature: 0° to 70° F (0° to 17° C) Relative Humidity: 5% to 95% Shock: 1,500 G, 2 ms

QuickSpecs

HP Elite 785 G3 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

512GB Turbo Drive G2 TLC OPAL2.0 SED Solid State Drive	
Unformatted Capacity	512 GB
Architecture	Solid State Drive with TLC NAND Flash and SATA Interface. Complies with SATA Standard. Power Saving Mode (L1) and SATA support. Multi-Stream support. OPAL 2.0 compliance.
Interface	SATA Gen3 x6
Form Factor	3.5" 2.5"
Height	1.13 mm
Width	22.86 ± 0.02 mm
Length	80.00 ± 0.05 mm
Weight	Up to 8 g
Read/Write Performance	Sequential Read (1 MB): Up to 1000 MB/s Sustained Sequential Write: Up to 900 MB/s
Power	Power consumption (avg): Active: Typical 6.5 W Idle: Typical 2.5 W L1: Typical 2.5 W
Mean Time Between Failure (MTBF)	1,000,000 hours
Environmental (all conditions, non-condensing)	Operating Temperature: 0° to 70° F (0° to 17° C) Relative Humidity: 5% to 95% Shock: 1,500 G, 2 ms

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QuickSpecs

HP Elite 705 G2 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

128GB SATA 2.5" Value Non-SED Solid State Drive			
Informational Capacity	128 GB		
Architecture	TLC NAND Flash		
Interface	SATA 3.2 6.0 Gb/s		
Form Factor	2.5 inch		
Dimensions (H x B x D)	6.96 x 0.7 x 100.5 mm		
Weight	20g		
Sustained Performance	Sustained Sequential Read	Up to 513 MB/s	
	Sustained Sequential Write	Up to 139 MB/s	
	Random Read	Up to 190 IOPS	
	Random Write	Up to 140 IOPS	
Power	DC power requirement:	5.0W (35-90 mA) typical	
	Total power consumption:	5W (AF for level 2) max (SATA)	
Annual Drive Life			
PTEB metrics, up to 100,000 days for 5 years			
Environmental (all conditions, non-condensing)	Operating Temperature		32° to 134° F (0° to 57° C)
	Relative Humidity		5% to 95%
	Shock		1,500 G/5 ms
	Vibration		

NOTE: For hard drives and solid state drives, GB = 1,024 MB; TB = 1,024 GB. Actual formatted capacity is less. Up to 30 GB for Windows 10 if set boot disk is reserved for the system recovery software.

QuickSpecs

HP Elite 705 G2 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

256GB SATA 2.5" Value Non-SED Solid State Drive			
Informational Capacity	256 GB		
Architecture	TLC NAND Flash		
Interface	SATA 3.2 6.0 Gb/s		
Form Factor	2.5 inch		
Dimensions (H x B x D)	6.96 x 0.7 x 100.5 mm		
Weight	20g		
Sustained Performance	Sustained Sequential Read	Up to 513 MB/s	
	Sustained Sequential Write	Up to 139 MB/s	
	Random Read	Up to 190 IOPS	
	Random Write	Up to 140 IOPS	
Power	DC power requirement:	5.0W (35-90 mA) typical	
	Total power consumption:	5W (AF for level 2) max (SATA)	
Annual Drive Life			
PTEB metrics, up to 100,000 days for 5 years			
Environmental (all conditions, non-condensing)	Operating Temperature		32° to 134° F (0° to 57° C)
	Relative Humidity		5% to 95%
	Shock		1,500 G/5 ms
	Vibration		10/16/20/5 ms

NOTE: For hard drives and solid state drives, GB = 1,024 MB; TB = 1,024 GB. Actual formatted capacity is less. Up to 30 GB for Windows 10 if set boot disk is reserved for the system recovery software.

QuickSpecs

HP Elite 705 G2 Business Desktop Business PCs

Technical Specifications – Hard Disk and Solid State Storage

140 GB SATA 2.5 TLC Max-SED 550 (Pro44005)			
Informational Capacity	140 GB		
Architecture	Triple-Layer Cell (TLC) MLC		
Interface	Serial ATA 3.0 6.0 Gb/s		
Form Factor	2.5 inch		
Height	1.27 inch		
Width	69.85 mm x 8.25		
Length	100.45 mm max		
Weight	18 to 25g		
Sustained Performance	Sustained Sequential Read	Up to 540 MB/s	
	Sustained Sequential Write	Up to 110 MB/s (burst up to 460 MB/s)	
Power	Power consumption:	Active (typical) 7.0W (30 mA) typical (SATA)	
	DC power requirement:	5.0W (35-90 mA) typical	
Environmental (all conditions, non-condensing)	Operating Temperature		32° to 134° F (0° to 57° C)
	Relative Humidity		5% to 95%
	Shock		1,500 G/5 ms
	Vibration		10/16/20/5 ms

QuickSpecs

HP Elite 705 G2 Business Desktop Business PCs

Technical Specifications – Optical Disk Drives

HP 8-Drive Desktop G2 Slim DVD Multi Drive			
Height	8.17 mm height		
Architecture	Drive format only optical		
Interface type	SATA/IDE		
Max recording capacity	Up to 8.5 GB DL or 4.7 GB standard		
Dimensions (H x B x D)	5.08 x 1.37 x 5.0 mm (0.20 x 0.54 x 0.197 inch) without bezel		
Weight (max)	8.17 g (0.289 oz)		
Media Support	HD-DVD	Up to 16 GB	
	DVD-R	Up to 8X	
	DVD+R	Up to 8X	
	DVD-RWL	Up to 8X	
	DVD-R	Up to 8X	
	DVD-RW	Up to 8X	
	CD-R	Up to 48X	
	CD-RW	Up to 36X	
	CD-R/DL	Up to 24X	
	CD-R	Up to 24X	
	CD-RW	Up to 24X	
	CD-R/DL	Up to 24X	
	CD-R	Up to 24X	
	CD-RW	Up to 24X	
	CD-R/DL	Up to 24X	
	CD-R	Up to 24X	
	CD-RW	Up to 24X	
	CD-R/DL	Up to 24X	
	Other Media	HD-DVD	DVD media for storage products
Accessories (optional; not included with drive)	Hardwin	DVD-ROM, DVD-RW, CD-R/DL, CD-R, DVD-R, DVD-RW, DVD-R, DVD-R	
	Full Drawer	DVD-ROM, DVD-RW, CD-R/DL, CD-R, DVD-R, DVD-RW, DVD-R, DVD-R	
	Slip Tray	5.25 inch tray	
	None	None	
Power	DC Power Requirement	5 W (35-90 mA) typical	
	DC Current	5 W (35-90 mA) typical (SATA)	

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Optical Disk Drives

Temperature	41° to 122° F (5° to 50° C)
Environmental conditions operating (non-condensing)	Relative Humidity: 10% to 80% Maximum Wet Bulb: 84° F (29° C) Temperature

HP 9.5mm Desktop G2 Slim DVD-RBM Drive

Height	9.5mm	
Orientation	Either horizontal or vertical	
Interface type	SATA 6 Gb/s	
Observe HP Life Dr	0.28 x 0.33 x 0.51 (0.88 x 0.85 x 1.27) inch (width x height x depth)	
Weight (max)	Up to 1.3 lb (0.6 kg) without cover	
Read speeds	UDF 2.01/ISO 9660 -DVD-R, DVD-RW	15.0 MB/s
	UDF 2.01/ISO 9660 -DVD-R, DVD-RW	21.0 MB/s
	UDF 2.01/ISO 9660 -DVD-R, DVD-RW	29.0 MB/s
	UDF 2.01/ISO 9660 -DVD-R, DVD-RW	33.0 MB/s
Access time (typical, including settling)	Random	2.00-8.00 (170ms Random) (3-8000) 1.70ms typical
	Full stroke	3.00-8.00 (200ms Random) (3-8000) 3.00ms typical
Power	Source	5VDC SATA DC power connector
	DC Power Requirement	5.00V ± 5%, 1.00 A (typical)
	DC Current	5.00V ± 5% (1.00 A typical, 1.40 A max maximum)
Environmental conditions non-condensing	Temperature	41° to 122° F (5° to 50° C)
	Relative Humidity	10% to 80%
	Maximum Wet Bulb	84° F (29° C)
	Temperature (operating)	

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Memory

System Memory Support

The HP Elite 705 G3 Business PC supports DDR4 protocols with two independent 4 GB modules (memory well exceeding 8 GB) or 16 GB.

- Two channels of up to 16 GB DDR4 unbuffered dual-in-line memory modules (UDIMMs) (two 8 GB UDIMMs) will be supported in the memory modules (UDIMMs) with a maximum of two DIMMs per channel.
- Single channel and dual channel memory configurations are supported.
- Data bus length is eight for all memory configurations.
- Memory ECC (Error Correcting Code) is supported in the background when the memory is not in use by the configured processor.
- 64-bit wide channels.
- DDR4 system memory (UDIMMs) of 1.2V.
- Theoretical maximum memory bandwidth of:
 - 31.5 GB/s (peak) (single channel) (exceeding 16 GB DIMMs)

Platform Memory Support

- The Hewlett-Packard (HP) and Hewlett-Packard (HP) platform support up to four (4) memory modules (DDR4-2400) (DIMMs).

CAUTION: You must shut down the computer and disconnect the power cord before adding or removing memory modules. Regardless of the power-on state, memory is always supplied to the memory modules as long as the computer is plugged into an active AC outlet. Adding or removing memory modules while voltage is present may cause hardware damage to the memory modules or system files.

NOTE: For system configurations with more than 1 GB of memory and a 32-bit operating system, all memory may not be available due to system memory addressing. Addressing memory above 1 GB requires a 64-bit operating system.

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Networking and Communications

NETWORKING AND COMMUNICATIONS

Broadcom NetXtreme Gigabit Ethernet Plus (BCM5783)

Connector	RJ-45
System interface	Integrated on PCA
Controller	Broadcom BCM5783 BMC
Memory	2-MB 1024-packet buffer memory (on-chip) (2 x 64-KB)
Data rates supported	10/100/1000 Mbps
IEEE Compliance	IEEE 802.3 IEEE 802.3u IEEE 802.3ab IEEE 802.3ae IEEE 802.3az IEEE 802.3ba
Bit architecture	PCI Express and USB
OS/OSI layer mode	PCI-based interface for active-state operation (OS kernel and OS/BIOS for host and management) (IEEE 802.3ba power state)
Power requirement	Maximum 3.3W (with integrated components) (Maximum Design Power: 100% in S3 state)
Wake-on-LAN support	Yes
Network interface mode	Full duplex
Network transfer rate	100 Gb/s (not supported for the 100Gb/s Ethernet) 100MB/s (Full duplex) 10 Mbps 100MB/s (Full duplex) 20 Mbps 100MB/s (Full duplex) 100 Mbps 100MB/s (Full duplex) 200 Mbps 100MB/s (Full duplex) 400 Mbps
Environment	Operating Temperature: 0° to 50° C Operating Humidity: 10% to 80%
Management	IPMI, out-of-band (OOB) (PCI, PCI-e) (VLAN), BIOS, Advanced Error Reporting, Smart Speed Selection
Alerts	ACPI 2.0 support, FRM support

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Networking and Communications

Intel® Ethernet I210-T1 Gigabit Network Card

Connector	RJ-45
System interface	PCI Express x1
Controller	Intel® I210-T1 Gigabit Ethernet Controller
Memory	Integrated dual 128-KB on-chip SRAM (external memory (RAM) buffers)
Data rates supported	10/100/1000 Mbps
IEEE Compliance	IEEE 802.3 IEEE 802.3u IEEE 802.3ab IEEE 802.3ae IEEE 802.3ba
Bit architecture	PCI-E x1
Data path width	32, 64, 128 bits, bidirectional interface
Data transfer mode	Full-duplex DMA
Hardware certifications	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3ae, IEEE 802.3ba (for European Union)
Power requirement	As low as 0.5 W (active) in S3 state and 1.0 W (idle) in S3 state
Wake-on-LAN support	Yes
Network transfer rate	100 Gb/s (Full duplex) 10 Mbps 100MB/s (Full duplex) 20 Mbps 100MB/s (Full duplex) 100 Mbps 100MB/s (Full duplex) 200 Mbps 100MB/s (Full duplex) 400 Mbps (not supported by PCI-E x1)
Environment	Operating Temperature: 0° to 50° C Operating Humidity: 10% to 80%
Management	IPMI, FRM, OOB, VMLAN

Intel® 7265 802.11ac (x2) DualBand Combo PCIe x1 Card*

Maximum data rate (theoretical)	867 MB/s (11n) 867 MB/s (11n) 867 MB/s (11n) 867 MB/s (11n) 867 MB/s (11n) 867 MB/s (11n)
Interference frequency band	2.4 GHz + 5.0 GHz (80 MHz)

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Networking and Communications

MaxNet™ Power Consumption	Maximuming 320 watt @ 230V AC/50/60Hz @ 100V selector swapped 120V	
Power Management	The product conforms to the ACPI and PC Express EPC base methods to manage power of the M.2 components. Supports all ACPI compliant system power modes. These include: Standby, Power-On By Keyboard (POB), Power-On By Mouse (POM), Power-On By LAN (POL), Power-On By USB (POU), and Power-On By Video (POV) defined in ACPI 1.1c.	
Receiver Sensitivity for 802.11n	802.11a, 11b/g/n - 94dBm maximum 802.11a, 11b/g/n - 94dBm maximum 802.11a/g, 11b/g/n - 94dBm maximum 802.11a/g, 11b/g/n - 94dBm maximum 802.11a, 11b/g/n - 94dBm maximum 802.11a, 11b/g/n - 94dBm maximum 802.11a, 11b/g/n - 94dBm maximum 802.11a, 11b/g/n - 94dBm maximum 802.11a, 11b/g/n - 94dBm maximum 802.11a, 11b/g/n - 94dBm maximum	
Power Factors	PC Express M.2 for factor	
Operating Voltage	The device will be powered by a 3.3V, 5V or supply from the host system.	
Temperature	Operating: Non-operating:	0° to 35° F (0° to 32° C) -4° to 149° F (-20° to 65° C)
Humidity	Operating: Non-operating:	10% to 90% non-condensing 5% to 95% non-condensing
Vibration	Operating: Non-operating:	0 to 10,000 G (0.0001) 0 to 10,000 G (0.0001)

*Wired access point, cable or wireless service required and not included. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are based on the maximum number of antennas. The specifications differ from the actual number of antennas. It may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.

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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Audio

AUDIO

High Definition Audio

Type	Integrated
HD Stereo Codec	Realtek 7.1 channel AC1027 codec
Audio I/O Ports	Front: Microphone-in (150-ohm input impedance) Rear: Line-in/Microphone input (150-ohm input impedance), front-facing (available by audio driver) Front: Headphone-out (50-ohm output impedance, mono or stereo 32-ohm load) Front: Microphone/Headset Jack (to task able to provide flexible front, line-in microphone output to support connecting two headphones to the front of the system. When configured as a second front headphone output, both front headphone outputs are always on-line with the same signal.) All ports have 2.5mm
Internal Speaker Amplifier	1.0W amplifier for the internal speaker only. External speakers must be purchased separately. Rear-line-in audio ports are built into the front panel of the notebook.
Multi-streaming Capable	Multi-streaming can be enabled in the Realtek control panel to allow independent audio streams to be sent to/from the front and rear ports.
Sampling	24-bit / 48 kHz
Wave Table Technology	Yes - Direct Drive WaveTable
Audio Driver	Yes
# of Channels in Operation	Seven (Six + Eight channels)
Internal Speaker	Yes
External Speaker Jack	Yes

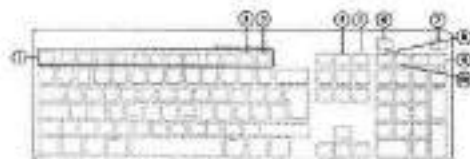
QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Input/Output Devices

Input/Output Devices

HP Conferencing Keyboard



1. Navigation Keys	6. End/Refresh/Alt
2. F11 Keys or Slaps for Business (2) and F12**	7. Accessory Call
3. F12 Key or Slaps for Business Calendar**	8. Microphone Mute
4. Home Screen	9. Volume Up/Down
5. Sleep/Wake	10. Audio Mute

**Microsoft Lync 2013, or Skype for Business, or Microsoft Outlook 2013 Desktop App

**Microsoft Lync 2013, or Skype for Business, or Microsoft Outlook 2013 (mobile)

Dimensions (H x L x W)	0.86 x 17.10 x 6.18 in (21.6 x 43.2 x 15.7 cm)
Weight	24.19 lbs (10.97 kg)
Connectivity	USB (cable)
Keys	F10-F12/Keys A, 11 - 120-key layout - depending upon connectivity
Feature Summary	Full-size keys - silent keyboard with numerical pad and 12 function keys One-touch connectivity for Microsoft Lync or Skype for Business with unadorned keys and LED light indicators
Standard Keys	Control/Alt - State/Even Ctrl/Program - Green Microphone Mute - Green End/Refresh - Orange Sleep/Wake - Orange Sleep/Wake - Orange

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Input/Output Devices

Other Call Control Keys	End/Refresh/Call Microphone Mute/Screen Lock/Slide
Microsoft Lync Desktop	F10-F12 - Lync or Skype for Business Calendar will open if Lync or Skype for Business is not installed using the Windows Calendar App F12 - Lync or Skype for Business Screen Call icon. If Lync or Skype for Business is not installed will bring up the Windows Call App *F10-F11 and F12 function keys are not supported in Microsoft Lync or Skype for Business
Function Keys	F10-F12 - System Settings F10-F12 - Device F10-F12 - Search F10-F12 - Home F10-F12 - Log Out/Screen Lock/Screen F10-F12 - Screen Brightness Adjustment F10-F12 - Display Options F10-F12 - File Explorer F10-F12 - System Lock F10-F12 - System Sleep
System requirements	Available USB ports: Windows 7, Windows 8.x, and Windows 10: Seven Microsoft Lync Desktop 2013 or 2015 and Skype for Business Desktop 2015 Three Microsoft Lync 2013 or 2015 and Skype for Business Desktop 2015 * Limited support for Microsoft Lync 2010, Microsoft Lync 2013 Basic and Microsoft Metro Mode * Screen Brightness Function supported in select HP systems
Approved EMC Product Safety	FCC (EMC) and CE (EMC) UL, CE, PSE

HP USB PS/2 Washable Keyboard

Keys	104 (105) Keys, 100 - 105 Keys - depending upon connectivity
Physical Characteristics	Dimensions: 6.5 x 11.5 x 1.5 in (16.5 x 29.2 x 3.8 cm) Weight: 1.7 lb (0.77 kg) (without cable) Operating Height: 1.54 in (3.9 cm) Power Consumption: 100 mW (maximum) at 5V DC (at 100 mA) System Interface: USB Type-A plug connector Cable: 0.5 m (1.6 ft) - 1.5 m (4.9 ft) - depending upon OS: Windows 7, Windows 8, Windows 10, Linux, macOS, Chrome OS Microsoft PC 99 - 2001: Not officially certified Emissions: Unrated - optional filter Electromagnetic: 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 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736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Input/Output Devices

Physical Characteristics	Keys	104, 105, 106, 107, 108 keys (depending upon country)
Dimensions (L x W x H)	175.90 x 48.25 x 6.27 in (4464 x 1226 x 159.7 mm)	
Weight	1.42 lb (646 g)	
Features	Operating voltage	+1.4 - 3.2 VDC
	Power consumption	30-watt maximum (with 5 VDC power supplied and three LEDs on)
	System interface	PS/2 or general-use connector
	PSU	Constant frequency 2, 400 MHz No discharge: 2.4, 0.18, 12.000
	USB - 2.0	Customers can use only for a Class B compliant device
	Microsoft® Windows® 8.1	Functionality provided
	Keystroke	Lite-profile design
	Switch activation	60 to 75 g (depending on force with tactile feedback)
	Switch life	10 million keystrokes (life tested)
	Switch type	Contaminant-resistant switch mechanism
Key-boarding mechanism	For all-numeric value and general keyboard	
Cable length	4.9 ft (1.5 m)	
Microsoft® PC 98 - 2001	Functionality provided	

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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Input/Output Devices

Environmental	Acoustic	45-dBA maximum sound pressure level
	Operating temperature	40°F to 122°F (5°C to 50°C)
	Non-operating temperature	32°F to 140°F (-0°F to 50°C)
	Operating humidity	10% to 90% (non-condensing, up to 100%)
	Non-operating humidity	10% to 90% (non-condensing, up to 100%)
	Operating shock	8.5G
	Non-operating shock	45 ft (13.7 m), six carts (in 100-ft (30.5-m) increments), 50g, 2100 ft (640 m) surface
	Operating vibration	2-g peak acceleration
	Non-operating vibration	Starting at 5 Hz, over the frequency of vibration from 5 to 500 Hz and back to 1 Hz at average 100% sweep rate of 1 octave per minute
	Cable length	26 in (66 cm) in length, 0.4 ft (12 cm) in length
Cable label	25.55 in (649 mm) in length, 0.4 ft (12 cm) in length	
Approvals	UL, FCC, CE Mark, T-EC, RoHS, VCCI, BSMI, C-Tick, KC	
Operational compliance	ANSI X3.104, ISO 9001-4, ISO 14001	

HP USB Grey Keyboard

Physical Characteristics	Keys	104, 105, 106, 107, 108 keys (depending upon country)
Dimensions (L x W x H)	18.0 x 5.4 x 0.70 in (457.0 x 137.3 x 17.8 mm)	
Weight	2.15 (975 g) maximum	
Features	Operating voltage	1.4VDC - 3.2V
	Power consumption	30-watt maximum (with three LEDs on)
	System interface	USB Type-A plug connector
	PSU	Constant frequency 2, 400 MHz No discharge: 2.4, 0.18, 12.000
	USB - 2.0	Customers can use only for a Class B compliant device
Environmental	Operating temperature	40°F to 122°F (5°C to 50°C)
	Non-operating temperature	32°F to 140°F (-0°F to 50°C)
	Operating humidity	10% to 90% (non-condensing, up to 100%)
	Non-operating humidity	10% to 90% (non-condensing, up to 100%)
	Operating shock	8.5G
	Non-operating shock	45 ft (13.7 m), six carts (in 100-ft (30.5-m) increments), 50g, 2100 ft (640 m) surface
	Operating vibration	2-g peak acceleration
	Non-operating vibration	Starting at 5 Hz, over the frequency of vibration from 5 to 500 Hz and back to 1 Hz at average 100% sweep rate of 1 octave per minute
	Cable length	4.9 ft (1.5 m)
	Microsoft® PC 98 - 2001	Functionality provided
Approvals	UL, FCC, CE Mark, T-EC, RoHS, VCCI, BSMI, C-Tick, KC	
Operational compliance	ANSI X3.104, ISO 9001-4, ISO 14001	

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HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Input/Output Devices

Operating voltage	1.4V to 3.2VDC (non-condensing, up to 100%)
Power consumption	30-watt maximum (with three LEDs on)
System interface	PS/2 or general-use connector
PSU	Constant frequency 2, 400 MHz No discharge: 2.4, 0.18, 12.000
USB - 2.0	Customers can use only for a Class B compliant device
Operating temperature	40°F to 122°F (5°C to 50°C)
Non-operating temperature	32°F to 140°F (-0°F to 50°C)
Operating humidity	10% to 90% (non-condensing, up to 100%)
Non-operating humidity	10% to 90% (non-condensing, up to 100%)
Operating shock	8.5G
Non-operating shock	45 ft (13.7 m), six carts (in 100-ft (30.5-m) increments), 50g, 2100 ft (640 m) surface
Operating vibration	2-g peak acceleration
Non-operating vibration	Starting at 5 Hz, over the frequency of vibration from 5 to 500 Hz and back to 1 Hz at average 100% sweep rate of 1 octave per minute
Cable length	4.9 ft (1.5 m)
Microsoft® PC 98 - 2001	Functionality provided
Approvals	UL, FCC, CE Mark, T-EC, RoHS, VCCI, BSMI, C-Tick, KC
Operational compliance	ANSI X3.104, ISO 9001-4, ISO 14001
Key contacts	Keypad and keyboard cable, warranty card, safety and contact guide

HP Wireless Business Slim Keyboard and Mouse

Keyboard	Dimensions (L x W x H)	17.19 x 0.39 x 4.27 in (435.6 x 9.9 x 108.2 mm)
	Weight - Wireless Two AA (alkaline) Batteries	1.21 lb (550 g)
Mouse	Dimensions (L x W x H)	1.46 x 4.51 x 2.21 in (37 x 113 x 57.1 mm)
	Weight - Wireless Two AA (alkaline) Batteries	0.15 lb (67 g)
Receiver	Dimensions (L x W x H)	0.73 x 1.73 x 0.77 in (18.4 x 43.7 x 19.5 mm)
	Weight	0.21 oz (5.9 g)
	Cable Length - Minimum	0.9 ft (2.7 m)
	Range	328 ft (100 m)
System Requirements	Available USB port for the wireless receiver	USB 2.0 or higher
	This system may require additional software or operating system based on the wireless receiver's OS. Visit the Windows 7 website and follow the instructions at http://www.microsoft.com/windows/7/whatsnew for details.	

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HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Input/Output Devices

Environmental	Product Safety	UL, CSA (TUV Business only), CE Mark, CE RoHS
	Dimensions	400 x 360 x 100 mm (15.7 x 14.1 x 3.9 in) (maximum)
	EMC	FCC Class B, CE Mark, RoHS, VCCI, BSMI, C-Tick, KC
	CE Mark	EMC 2014/53/EU, EN 55024, EN 55022, EN 60950-1, EN 60950-2
	Green Guidelines for IT	RoHS - complies with the European Union RoHS Directive
	Telecoms	All local telecom requirements and approvals for wireless markets
	USA	FCC Class B, CE Mark, RoHS, VCCI, BSMI, C-Tick, KC
	Country Support	US, Argentina, Australia, Brazil, Canada, Chile, Colombia, Costa Rica, Czech Republic, Denmark, Germany, France, Greece, Hong Kong, India, Indonesia, Italy, Japan, Korea, Kuwait, Malaysia, Mexico, New Zealand, Norway, Pakistan, Philippines, Singapore, South Africa, South Korea, Taiwan, Thailand, United Kingdom, United States, Vietnam
	Approvals	UL, CSA (TUV Business only), CE Mark, CE RoHS
	Operational compliance	ANSI X3.104, ISO 9001-4, ISO 14001

HP PS/2 Mouse

Environmental	Dimensions (L x W x H)	1.46 x 4.51 x 2.21 in (37 x 113 x 57.1 mm)
	Weight	1.21 lb (550 g)
	Operating temperature	40°F to 122°F (5°C to 50°C)
	Non-operating temperature	32°F to 140°F (-0°F to 50°C)
	Operating humidity	10% to 90% (non-condensing, up to 100%)
	Non-operating humidity	10% to 90% (non-condensing, up to 100%)
	Operating shock	8.5G
	Non-operating shock	45 ft (13.7 m), six carts (in 100-ft (30.5-m) increments), 50g, 2100 ft (640 m) surface
	Operating vibration	2-g peak acceleration
	Non-operating vibration	Starting at 5 Hz, over the frequency of vibration from 5 to 500 Hz and back to 1 Hz at average 100% sweep rate of 1 octave per minute
Cable length	4.9 ft (1.5 m)	
Microsoft® PC 98 - 2001	Functionality provided	
Approvals	UL, FCC, CE Mark, T-EC, RoHS, VCCI, BSMI, C-Tick, KC	
Operational compliance	ANSI X3.104, ISO 9001-4, ISO 14001	

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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Input/Output Devices

Electrical	System requirements	PS/2 multi-media connector
	OS	OS level 4, 15M or higher
	OSM ID	Complies to IEC rules for all class B computing devices
	Microsoft PCD - 2.0B1	Functionally compliant
	Resolution	640 dpi
	Tracking speed	33,000 DPI of travel accuracy
	Acceleration	175%
	Switch activation	85.2K gf
	Switch life	1.0 million operations (battery mouse model not tested)
	Switch type	Low Force rubber switch
	Tracking accuracy (m)	0.4mm
	Cable length	6.6 ft (2.0m)
	Microsoft PCD - 2.0B1	Functionally compliant
	Width	0.7mm
	Thickness	22.5 x 8.7 (mm)
	Maximum rotation (deg)	45 degrees
	Switch type	Light touch micro switch
	Switch life	1 million operations
	Resolution	Minimum 200 dpi resolution
Regulatory Approvals		UL, CSA, FCC, CE, RoHS, TR15, VCCI, KC, BSMI, CE, TUV

HP USB 1000dpi Laser Mouse

Dimensions	1.47 x 2.13 x 2.07 (in) (37.4 x 54.1 x 52.6 mm)
Weight	1.106 (lb) (50g)
Cable length	16.4 ft (5.00 m)
System requirements	Available USB port
Technical	Operating temperature Non-operating temperature Operating Humidity Non-operating Humidity
	32° to 114° F (0° to 40° C) -4° to 140° F (-20° to 60° C) 10% to 90% 5% to 95% (at 30°C)
Features	Resolution Tracking speed Cable length
	1000 dpi 33,000 16.4 ft (5.00 m)

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Input/Output Devices

HP USB PS/2 Washable Mouse

Dimensions	1.56 x 2.44 x 2.07 (in) (39.6 x 62.1 x 52.6 mm)
Weight	1.44 (lb) (65g)
Technical	Resolution Tracking speed Acceleration Switch activation Switch life Tracking accuracy (m) Cable length Microsoft PCD - 2.0B1 Description Tracking speed Acceleration Switch activation Switch life Tracking accuracy (m) Cable length Microsoft PCD - 2.0B1 Description Tracking speed Acceleration Switch activation Switch life Tracking accuracy (m) Cable length
	1000 x 1000 dpi 33,000 DPI of travel accuracy 175% 85.2K gf 1.0 million operations 0.4 mm 6.6 ft (2.0 m) Functionally compliant 100 x 100 dpi 33,000 DPI of travel accuracy 175% 85.2K gf 1.0 million operations 0.4 mm 6.6 ft (2.0 m) Functionally compliant 100 x 100 dpi 33,000 DPI of travel accuracy 175% 85.2K gf 1.0 million operations 0.4 mm 6.6 ft (2.0 m)
Regulatory Approvals	UL, CSA, FCC, CE, RoHS, TR15, VCCI, KC, BSMI, CE, TUV, NF

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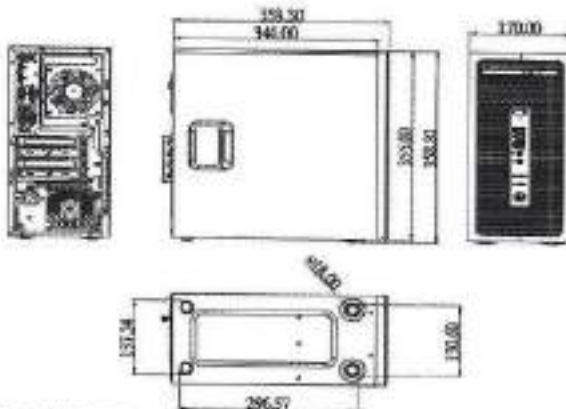
HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Weights & Dimensions

SMALL FORM FACTOR DIMENSIONS



MINITOWER DIMENSIONS

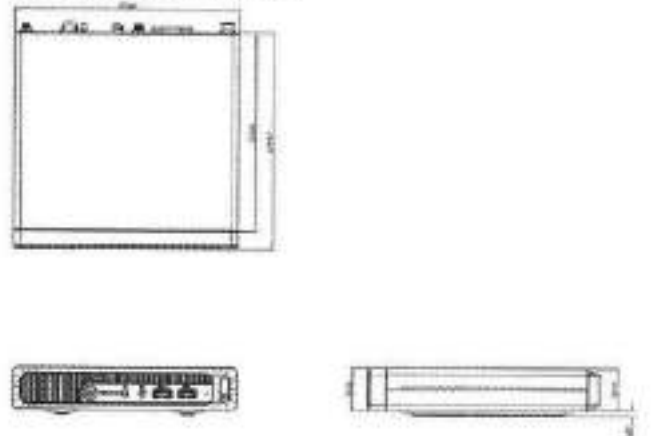


STANDARD TOWER DIMENSIONS

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Technical Specifications - Weights & Dimensions



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HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications – Environmental Data

Environmental Data

Management Features

- Advanced Configuration Power Management Interface (ACPI) allows the system to wake from a hibernation mode. Control system power consumption, making it possible to power down hard and portable in a low-power or powered-off state without affecting other elements of the system.
- Quick-Save Power Recovery acts as a backup for any unsaved data before the system is shut down.

Serviceability Features

- Dual-colored power LED on built-in computer to indicate the normal or fault condition
- Diagnose LED System on Table
 - Number of 1-second LED flashes indicate a 0-second, five-second, or 10-second interval (in minutes)
 - 2 – Onboard DIMM (in minutes)
 - 3 – Onboard RAM (in minutes)
 - 4 – Onboard floppy (in minutes)
 - 5 – Onboard hard drive
 - 6 – Onboard mouse
 - 7 – Onboard keyboard (in minutes)
 - 8 – Onboard ROM, local disk, network card
 - 9 – Onboard network card
 - 10 – System hangs while loading an application
- HP iLO (Advanced Management Engine)
 - This utility enables remote management outside the operating system or using components. The diagnostics can be accessed through iLO in POST and is available as a download from HP support.
- System Emergency mode
 - Flash BIOS
 - CMOS battery (RAM for easy replacement)
 - Flash Recovery and BIOS Configuration (on-board base)
 - HP Active Power LED on System PCB
 - Processor ID Section for easy upgrade
 - Over-Trip Warning for Sensors (Requires H Agent)
 - Local Password Screen
 - BIOS Connect for easy Upgrade
 - Case MIO Button
 - HP iLO (Advanced Management Engine)
 - HP Active Power and HP LED – To Indicate Operational Operations and Fault Condition
 - User operation status indicator screen
 - Tool-less hard drive
 - Tool-less power switch
 - System owners can be approved without needing the system board or any internal components
 - Tool-less fan covers, CD/DVD drive
 - Internal drive SATA and SATA-to-USB adapter for easy identification

Additional Features

Feature Description	Description
Tool-less drive bay	Product can be removed or added without the need for a screwdriver
3.5-inch drive bay	Implementation of the industry standard 3.5-inch floppy drive slot. When enabled, it is not visible across the front of the drive and use of hardware-defined passwords are protected.
Onboard SATA-to-USB adapter	HP Access through FireWire (optional)

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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications – Environmental Data

A diagnosis tool will self-test 10 years critical physical components and report back to the hardware layer of the system to report any faults in the case.

Running diagnostics of the operating system may be accessed through a Windows-based diagnostic utility or through the computer's BIOS procedures. A diagnosis maintenance environment (the hard drive) the source of the problem and the steps to be replaced.

The system reports on the BIOS Monitoring, Analysis, and Reporting Technology (SMART), a performance monitoring system. Diagnostics that check the user to complete a task.

Alerts and status to monitor. Each user has the ability to raise flag if hardware failure occurs.

Drift to follow as before they occur. This includes prediction and alert (includes parameters such as utilization, utilization, cycle rate, etc.) and is available by iLO.

HP iLO (Advanced Management Engine)

- This utility enables remote management outside the operating system or using components. The diagnostics can be accessed through iLO in POST and is available as a download from HP support.

SMART Technology (Self-Monitoring, Analysis and Reporting Technology)

SMART 1 – Drive Failure Prediction

SMART 2 – On-Disk Error Detection

SMART 3 – On-Disk Error Detection with Defect Management

SMART 4 – On-Disk Error Detection with Defect Management

Environmental Certifications & Restrictions

- CE Marking
- US ENERGY STAR
 - ENERGY STAR requirement in the United States, see <http://www.energystar.gov> for registration status in your country.

The system is certified for the following environmental and safety standards:

- Compliance with the European Union's RoHS (Restriction of Hazardous Substances) Directive (2002/95/EC)
- Compliance with the European Union's WEEE (Waste Electrical and Electronic Equipment) Directive (2002/96/EC)
- Compliance with the California Proposition 65 (State of California, Safe Drinking Water Act)
- Compliance with the EPEAT (Electronic Product Assessment) standard at the global level. See www.epeat.org
- Product parts weighing over 25 grams used in the product are marked with 1001 369 and 801 3645.
- The product contains a toxic and carcinogenic substance (Pb) at 0.1%.
- The product is 80% recyclable when properly disposed of at end of life.

System Configuration

HP Elite 705 G3 Business Desktop Microtower Business PC

System Configuration	11390, 0000	11390T, 0000
Normal operation (Start, On)	23.00W	23.55W
Normal operation (Standby)	23.00W	23.55W
Idle	3.00W	3.51W
Off	0.00W	0.17W

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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications – Environmental Data

Note: Energy efficiency data is based on an ENERGY STAR compliant product. Product within the model family (1000) are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR specifications. ENERGY STAR compliant products meet these energy efficiency standards based on a typically configured PC (actual results may vary) and a standard Windows operating system.

Model	11390, 0000	11390T, 0000
Max. operation (Start, On)	23.00W	23.55W
Normal operation (Standby)	23.00W	23.55W
Idle	3.00W	3.51W
Off	0.00W	0.17W

*EPEAT: Max. recyclability is calculated based on the material used, see www.epeat.org for details.

Material	Weight (grams)	Percentage (%)
Plastic	23.00	3.3
Other	0.00	0.0

The product can be recycled, ideally according to local recycling programs. Recyclable materials and their weights:

- 10 1000 3000
- 4 memory sticks
- 1 PCie 3.0 x16 slot
- 1 PCie 3.0 x4 slot with SATA connector
- 2 PCie 3.0 x1 slot
- 1 external SATA connector (see also HDD or removable drive)
- 2 internal 3.5" SATA supporting up to two 3.5" hard drives
- 800/1000/1500
- 1000/1500 4.0 Floppy

*See table for available throughout the country (product) and/or for up to 10% waste after the end of product.

This factory (s) in this product comply with EU Directive 2002/95/EC.

Recycled content in this product does not exceed:

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HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications – Environmental Data

Material greater than 100g by weight

Customer greater than 200g by weight

Battery size: DR2002 (book only)

Battery type: Lithium

- The product is in compliance with the restrictions of hazardous substances (RoHS) directive (2002/95/EC)
- The HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive (2002/96/EC)
- This product is in compliance with California Proposition 65 (State of California, Safe Drinking Water Act)
- This product is in compliance with the EPEAT (Electronic Product Assessment) standard at the global level. See www.epeat.org
- Product parts weighing over 25 grams used in the product are marked with 1001 369 and 801 3645.
- The product contains a toxic and carcinogenic substance (Pb) at 0.1%.
- The product is 80% recyclable when properly disposed of at end of life.

Material	Weight (grams)	Percentage (%)
Plastic	23.00	3.3
Other	0.00	0.0

The product can be recycled, ideally according to local recycling programs. Recyclable materials and their weights:

- 10 1000 3000
- 4 memory sticks
- 1 PCie 3.0 x16 slot
- 1 PCie 3.0 x4 slot with SATA connector
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- 1 external SATA connector (see also HDD or removable drive)
- 2 internal 3.5" SATA supporting up to two 3.5" hard drives
- 800/1000/1500
- 1000/1500 4.0 Floppy

*See table for available throughout the country (product) and/or for up to 10% waste after the end of product.

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Recycled content in this product does not exceed:

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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Environmental Data

RoHS	<ul style="list-style-type: none"> • RoHS-compliant Substances • Toxicity To (TTL), Triphenyl Tin (TTL), Triphenyl Tin Oxide (TTL-TO)
Packaging	<p>HP follows these guidelines to decrease the environmental impact of product packaging:</p> <ul style="list-style-type: none"> • Minimize the use of heavy metals (such as lead, chromium, mercury and cadmium) in packaging materials. • Minimize the use of ozone-depleting substances (ODS) in packaging materials. • Design packaging materials for ease of disassembly. • Maximize the use of post-consumer recycled content materials in packaging materials. • Use readily recyclable packaging materials such as paper and corrugated materials. • Reduce size and weight of packages to improve transportation efficiency. • Plastic packaging materials are marked according to ISO 11469 and ISO 15252 standards.
End-of-life Management and Recycling	<p>Product packaging often end-of-life HP product return and recycling programs in many geographic areas. To request information, go to http://www.hp.com/go/return or contact your nearest HP sales office. Product returned to HP will be recycled in a responsible manner.</p> <p>The EU WEEE directive (2002/96/EC) requires manufacturers to provide treatment information for each product. This information is printed on the product assembly instructions or on the product's product label and on the product's packaging. This information may be used by customers and other WEEE treatment facilities as well as HP-DEEM customers.</p>
Product-Package Corporate Environmental Information	<p>For more information about HP's commitment to the environment:</p> <p>Global Citizenship Report http://www.hp.com/go/citizenship</p> <p>Product Certifications http://www.hp.com/go/rohs</p> <p>ISO 14001 Certification http://www.hp.com/go/iso14001</p> <p>ISO 26000 http://www.hp.com/go/iso26000</p> <p>HP Elite 705 G3 Business Desktop Min Business PC</p>
End-of-life Certifications and Approvals	<p>The product has been tested or is in the process of being certified to the following approvals and may be labeled:</p> <ul style="list-style-type: none"> • TCO 1999 • EPEAT • ENERGY STAR • EPEAT (which is approved in the United States, has been recognized for environmental award CLOBLAP)
System Configuration	<p>The configurations used for the Energy Consumption and Product Label End-of-life steps for the Ultra-slim 3 computer PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows 8 operating system.</p>

QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Environmental Data

RoHS	<ul style="list-style-type: none"> • RoHS-compliant Substances • Toxicity To (TTL), Triphenyl Tin (TTL), Triphenyl Tin Oxide (TTL-TO)
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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Environmental Data

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Product-Package Corporate Environmental Information	<p>For more information about HP's commitment to the environment:</p> <p>Global Citizenship Report http://www.hp.com/go/citizenship</p> <p>Product Certifications http://www.hp.com/go/rohs</p> <p>ISO 14001 Certification http://www.hp.com/go/iso14001</p> <p>ISO 26000 http://www.hp.com/go/iso26000</p> <p>HP Elite 705 G3 Business Desktop Min Business PC</p>
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HP Elite 705 G3 Business Desktop Business PCs

Technical Specifications - Environmental Data

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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

After-Market Options (availability may vary by region)

After Market Options

Business Modules	US/UK	EM	Part Number
HP Elite 705 G3 (E) 12th Gen Intel Core i7	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i9	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i5	X	X	H01710AA

Communication Devices	US/UK	EM	Part Number
HP Elite 705 G3 (E) 12th Gen Intel Core i7	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i9	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i5	X	X	H01710AA

Graphics Solutions	US/UK	EM	Part Number
HP Elite 705 G3 (E) 12th Gen Intel Core i7	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i9	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i5	X	X	H01710AA

Data Storage Drives	US/UK	EM	Part Number
HP Elite 705 G3 (E) 12th Gen Intel Core i7	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i9	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i5	X	X	H01710AA

Input Devices	US/UK	EM	Part Number
HP Elite 705 G3 (E) 12th Gen Intel Core i7	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i9	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i5	X	X	H01710AA

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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

After-Market Options (availability may vary by region)

Business Modules	US/UK	EM	Part Number
HP Elite 705 G3 (E) 12th Gen Intel Core i7	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i9	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i5	X	X	H01710AA

Desktop Mini Accessories	US/UK	EM	Part Number
HP Elite 705 G3 (E) 12th Gen Intel Core i7	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i9	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i5	X	X	H01710AA

System Memory	US/UK	EM	Part Number
HP Elite 705 G3 (E) 12th Gen Intel Core i7	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i9	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i5	X	X	H01710AA

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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

After-Market Options (availability may vary by region)

Business Modules	US/UK	EM	Part Number
HP Elite 705 G3 (E) 12th Gen Intel Core i7	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i9	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i5	X	X	H01710AA

Multimedia Devices	US/UK	EM	Part Number
HP Elite 705 G3 (E) 12th Gen Intel Core i7	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i9	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i5	X	X	H01710AA

Security Devices	US/UK	EM	Part Number
HP Elite 705 G3 (E) 12th Gen Intel Core i7	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i9	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i5	X	X	H01710AA

Stands and Accessories	US/UK	EM	Part Number
HP Elite 705 G3 (E) 12th Gen Intel Core i7	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i9	X	X	H01710AA
HP Elite 705 G3 (E) 12th Gen Intel Core i5	X	X	H01710AA

LANBASE Software (in-delivery)	Part Number
HP Elite 705 G3 (E) 12th Gen Intel Core i7	01710AA

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QuickSpecs

HP Elite 705 G3 Business Desktop Business PCs

After-Market Options (availability may vary by region)

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QuickSpecs

HP Elite 705 G3 Business Desktop Business PC

Change Log

Date	Version History	Action	Description of Update
October 20, 2017	Version 1.0a.7	Added	Operating system
October 21, 2017	Version 1.0a.7	Added	Environment data
October 26, 2017	Version 1.0a.8	Changed	Platform Name to Business
November 24, 2017	Version 1.0a.9	Updated	At a glance, Operating System and Processor section were updated.
December 5, 2017	Version 1.0a.9	Updated	Operating System updated
February 7, 2017	Version 1.0a.7	Added	Processor section - For all processors. Supports AMD RYZEN 3 1200 Processor (instead of 1) AND Operating System only section - Includes SAS 1.3 (instead of SAS 1.2) and SAS 1.1
March 9, 2017	Version 1.0a.8	Added	Product ID and System BIOS section updated (optional)
March 25, 2017	Version 1.0a.9	Added	Processor added in Operating System section
March 31, 2017	Version 1.0a.10	Added	OS and software support was updated
Apr 11, 2017	Version 1.0a.11	Updated	Operating system section, OSAS 1.0a.11.4a. Processor section updated
Apr 14, 2017	Version 1.0a.12	Updated	Processor section updated
June 29, 2017	Version 1.0a.12	Updated	Processor section and software section
July 14, 2017	Version 1.0a.13	Updated	Operating System section updated Processor AND System BIOS section
July 27, 2017	Version 1.0a.13	Updated	Operating System section
August 15, 2017	Version 1.0a.14	Updated	OS section updated
August 21, 2017	Version 1.0a.17	Updated	OS section updated
August 21, 2017	Version 1.0a.17	Updated	HP Configuration Manager section added (from "Manageable My" feature on the HP System Configuration Data APPLICATIONS (SCD) BIOS/UEFI section)
August 21, 2017	Version 1.0a.18	Updated	HP Configuration Manager section removed (to align security software section)
August 25, 2017	Version 1.0a.19	Updated	AMD PRO Radeon R7 240X Graphics card graphics specs added to processor section
August 25, 2017	Version 1.0a.20	Updated	AMD RYZEN 3 1200 Processor added to 240X Graphics card
August 25, 2017	Version 1.0a.21	Updated	Power 7 Pro processor information added and "Power section" deleted (to align with 1 and 2 sections)
September 5, 2017	Version 1.0a.22	Updated	New Best Processor Management 1.5 for AMD RYZEN 3 1200 Processor section
September 15, 2017	Version 1.0a.23	Updated	Processor section AND System BIOS 1.0a.23 Processor ID added (to align with section)
September 15, 2017	Version 1.0a.24	Updated	OS 1.0a.24 Best Processor Management 1.5 for AMD RYZEN 3 1200 Processor section
September 25, 2017	Version 1.0a.25	Updated	OS 1.0a.25 Best Processor Management 1.5 for AMD RYZEN 3 1200 Processor section
October 5, 2017	Version 1.0a.26	Updated	AMD RYZEN 3 1200 Processor added
October 5, 2017	Version 1.0a.27	Updated	OS section updated on AMD System BIOS section
October 14, 2017	Version 1.0a.28	Updated	OS section updated and "Operating System" section added (to align with 1 and 2 sections)
October 20, 2017	Version 1.0a.29	Updated	OS section updated

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QuickSpecs

HP Elite 705 G3 Business Desktop Business PC

Change Log

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24/11/2017

7th Gen A10-9700 APU | AMD

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7th Gen A10-9700 APU

7th Gen A10 9700 APU

– Especificações

# of CPU Cores 4	# of GPU Cores 6	Compute Cores 10 (4 CPU + 6 GPU)
Base Clock Speed 3.5GHz	Max Turbo Core Speed 3.8GHz	Total L2 Cache 2MB
Unlocked Sim	CMOS 28nm	Package AM4
PCI Express Version PCIe 3.0 x8	Default TDP / TDP 65W	cTDP 45/65W
Max Temps 90°C	Supporte (/pt/support/apu/amd-series-processors/amd-a10-series-apu-desktops/7th-gen-a10-9700-apu/)	

7th Gen A10-9700 APU ↘

ESPECIFICAÇÕES

[SUPORTE \(/PT/SUPPORT/APU/AMD-SERIES-PROCESSORS/AMD-A10-SERIES-APU-DESKTOPS/7TH-GEN-A10-9700-APU/\)](/PT/SUPPORT/APU/AMD-SERIES-PROCESSORS/AMD-A10-SERIES-APU-DESKTOPS/7TH-GEN-A10-9700-APU/)

– Memória

Velocidade de memória 2400MHz	Tipologia de memória DDR4	Memory Channels 2
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– Graphics Specifications

Graphics Frequency 1029 MHz	Graphics Model Radeon™ R7 Series
---------------------------------------	--

– Principais recursos

Display Port Sim	HDMI Sim
----------------------------	--------------------

– Foundation

Família de produto AMD A-Series Processors	Linha de produto AMD A10-Series APU for Desktops	Plataforma Desktop
OPN PIB AD9700MGABBOX	Launch Date Channel: 7/27/2017, OEM: Bristol Ridge 9/5/2016	OPN Tray AD9700AGM44AB
	Codename Bristol Ridge	

24/11/2017

7th Gen A10-9700 APU | AMD

Produtos relacionados

7th Gen A10-9700E APU (</pt/products/apu/7th-gen-a10-9700e-apu>)

of CPU Cores: 4
 Base Clock Speed: 3GHz
 Max Turbo Core Speed: 3.5GHz
 Default TDP / TDP: 35W
 Graphics Model: Radeon™ R7 Series

[SAIBA MAIS \(/PT/PRODUCTS/APU/7TH-GEN-A10-9700E-APU\)](/PT/PRODUCTS/APU/7TH-GEN-A10-9700E-APU)

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[Declaração sobre trabalho forçado \(http://www.amd.com/Documents/AMD-statement-human-trafficking-forced-labor.pdf\)](http://www.amd.com/Documents/AMD-statement-human-trafficking-forced-labor.pdf)

[DESKTOP PRODUCTS](#)
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FAMÍLIA	AMD PRO A-Series Processors
LINHA	AMD PRO A-Series A10 APU for Desktop
MODELO	7th Gen AMD PRO A10-9700 APU
PLATAFORMA	Desktop
LANÇAMENTO	10/04/2015
DRIVER	VIEW DRIVERS

Especificações

Foundation	
CACHE L2 TOTAL	2 MB
CMOS	38nm
VERSÃO DO PCI EXPRESS	PCIe 3.0 x8
PACKAGE	AM4

Alto desempenho	
Nº DE NÚCLEOS DE CPU	4
Nº DE CPU CORES	6
VELOCIDADE BÁSICA DE CLOCK	1.5 GHz
VELOCIDADE DE MAX TURBO CORE	1.8 GHz
TEMPERATURAS MÁXIMAS	90° C
TDP	65 W
CTDP	45W/65W

Memória	
VELOCIDADE MÁXIMA DA MEMÓRIA	2400 MHz
INTERFACE DA MEMÓRIA	DDR4
CANAL DE MEMÓRIA	2

Principais recursos	
SUPORTE A AES	Yes

26/11/2017

7th Gen AMD PRO A10-9700 APU

FMA	FMA4
AVX	AVX
AMD VIRTUALIZATION	Yes

Especificações da placa de vídeo

MODELO DE PLACA DE VÍDEO	R7
VERSÃO DO DIRECTX	DirectX® 12
FREQUÊNCIA DA PLACA DE VÍDEO	1.020 MHz

Principais recursos gráficos

RAIDON SOFTWARE	Yes
TECNOLOGIAS AMD ENDURO	Yes
CONTROL DE META DE TAXA DE QUADROS (FRT) DA AMD	Yes
TECNOLOGIA AMD FREESYNC™	Yes
AMD SECURE PROOFESSOR	Yes
TECNOLOGIA AMD POWER TUNE	Yes
DUAL GRAPHICS	No
TECNOLOGIA AMD TRUE AUDIO	Yes
TECNOLOGIA AMD ZERO CORE POWER	No
MODE GRÁFICO ALTERNÁTIVO	No
SUPOORTE À API Vulkan®	Vulkan™
AVFS	Yes
UNIFIED VIDEO DECODER (UVD)	Yes
VIDEO CODE ENGINE (VCE)	Yes

Saídas para monitor

DISPLAYPORT	Yes
ADMI	Yes



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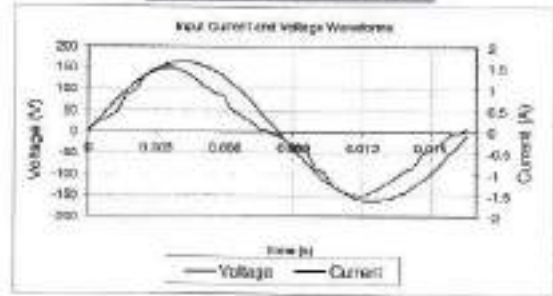


80 PLUS Verification and Testing Report

TYPICAL EFFICIENCY (50% Load):	92.01%
AVERAGE EFFICIENCY:	90.83%
80 PLUS COMPLIANT:	YES



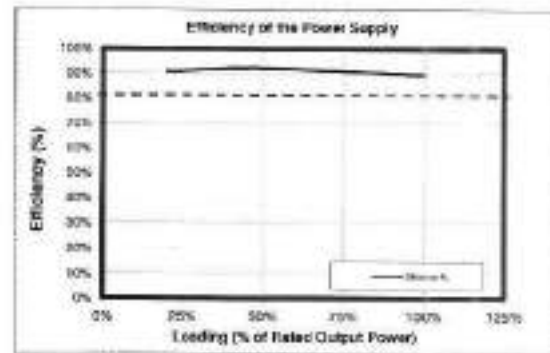
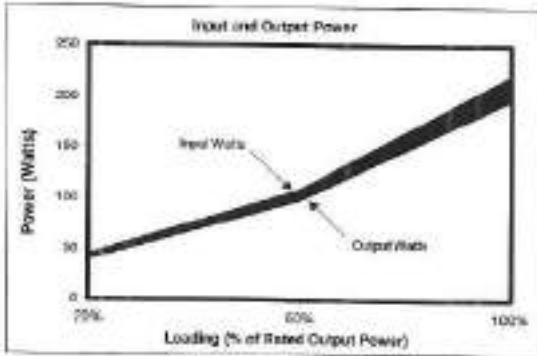
Ecog ID #	4330
Manufacturer	Howell-Packard Company
Model Number	PCE011
Serial Number	SE1JH002770003
Year	2015
Type	SFF
Test Date	3/25/15



Rated Specifications	Value	Limits
Input Voltage	100-240	Volts
Input Current	3	Amps
Input Frequency	50-60	Hz
Rated Output Power	200	Watts

Note: All measurements were taken with input voltage of 115 V nominal at 60 Hz.

Line A	PF	I _{in} (A)	Load (%)	Input Watts	DC Terminal Voltage (V) DC Load Current (A)			Output Watts	Efficiency %
					12V (cumulative of 12V1, 12V2, etc.)	-5V	5Vsb		
0.24	0.84	16.99%	10%	23.22	11.821.54	11.800.01	11.880.12	19.95	85.92%
0.41	0.83	16.99%	20%	45.77	11.820.07	11.790.03	11.880.24	39.75	90.82%
0.95	0.87	16.84%	50%	107.46	11.847.88	11.870.07	11.810.6	90.07	92.01%
1.95	0.88	14.51%	100%	230.42	11.8410.08	11.850.14	11.860.2	197.81	86.65%



These tests were conducted by a third party independent testing firm on behalf of the 80 PLUS Program. 80 PLUS is a certification program to promote highly-efficient power supplies (greater than 80% efficiency in the active mode) in technology applications. <http://www.80plus.org/>



[Handwritten signatures and marks]



Windows hardware certification report: Approved

Submission ID: 1877078
 Submission date: 8/3/2016
 Hardware certification completion date: 8/3/2016
 Company: Hewlett-Packard Company
 Product name: HP EliteDesk 705 G3 Microtower Business PC
 Category: Systems
 Product type: Desktop
 Qualification level: Certified for Microsoft Windows 10 Client family versions 1506 and 1511, x64
 Marketing names: HP EliteDesk 705 G3 Microtower Business PC
 HP EliteDesk 705 G3 Small Form Factor Business PC

Additional information:

BIOS URL: <http://www8.hp.com/us/en/drivers.html>
 Motherboard manufacturer: HP
 Motherboard model: 8265
 BIOS manufacturer: HP
 BIOS date: 07/24/2016
 BIOS version: HPQOEM - 1
 Firmware interface: UEFI
 Maximum RAM that can be installed (in MB): 33554432
 CPU speed: 3800
 Number of physical CPUs (CPU sockets): 1
 CPU model: AMD A12-9800 RADEON R7, 12 COMPUTE CORES 4C+8G
 ACPI sleep states: S3,S4,S5

HP EliteDesk 705 G3 Small Form Factor Business PC

By Hewlett-Packard Company

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Compatibility details

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Network sites

(<http://msdn.microsoft.com/en-US/>)

Windows Dev Center

Windows Dev Center home
(<https://dev.windows.com/en-US/>)
Windows Store apps
(<http://msdn.microsoft.com/en-US/windows/apps/>)
Microsoft Edge (<https://dev.windows.com/en-US/microsoft-edge-for-dev/>)
Hardware Dev Center
(<http://msdn.microsoft.com/en-US/windows/hardware/>)

Other links

SUPPORT (<http://msdn.microsoft.com/en-US/windows/hardware/gg454528>)
Microsoft Connect
(<http://connect.microsoft.com/>)
OEM (<http://en-us/hardware/oem/>)

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Desktop and Mobile Architecture for System Hardware	DASH
Network Management Initiative	NETMAN
Open Virtualization Format	OVF
Platform Management Components Intercommunication	PMCI

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- [American Microtrands, Inc.](http://www.americanmicro.com) (<http://www.americanmicro.com>)
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- [Quanta Computer, Inc.](http://www.quanta.com) (<http://www.quanta.com>)
- [Toshiba America Electronic Components, Inc.](http://www.toshiba.com) (<http://www.toshiba.com>)
- [Western Digital Corporation](http://www.western.com) (<http://www.western.com>)

China Chapter

- [China Academy of Information and Communications Technology \(CAICT\)](http://www.citric.com) (<http://www.citric.com>)
- [China Communications Standards Association](http://www.csa.com) (<http://www.csa.com>)
- [China Electronics Standardization Institute \(CES\)](http://www.ces.com) (<http://www.ces.com>)
- [Dell Inc.](http://www.dell.com) (<http://www.dell.com>)
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- [Microsoft Corporation](http://www.microsoft.com) (<http://www.microsoft.com>)
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Specifications	
Model:	EliteDesk 705 G3 SFF
Performance (Desktop, Integrated Computer, Stand/Portable, Two-in-one Stand/Portable, and Portable) or Portable (All-in-one Category 1a, B2) (Typical Energy Consumption) (Watt-hours):	4000
Category 1a: Processor Name:	4th Gen Intel® Core™ i5
Category 1a: Processor Name:	4th Gen Intel® Core™ i5
Category 1a: Operating System Name:	Windows 8.1
Category 1a: Screen Resolution (Standard) (Resolution):	1366 x 768 (Standard)
Category 1a: System Memory Name:	4GB
Category 1a: Storage Name:	500GB HDD

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- Category 1a: Tech (2/0/0/0/0/0/0/0)
- Category 1a: Processor Name (8)
- Category 1a: Processor Name:
- Category 1a: Operating System Name (8)
- Category 1a: Screen Resolution (Per Core) (1/0/0/0/0)
- Category 1a: Screen Resolution (Per Core)
- Category 1a: Default Low-power Name (8)
- Category 1a: Long Life Power Used for Sleep Mode (8)
- Category 1a: Low Power (4/1/0/0/0/0/0)
- Category 1a: Sleep Mode (2/0/0/0/0)
- Category 1a: Long Life (4/1/0/0/0/0)
- Category 1a: Short Life (2/0/0/0/0)
- Category 1a: Screen Resolution (8)
- Category 1a: Screen Resolution (Per Core) (1/0/0/0/0)
- Category 1a: Processor Name (3/0/0/0/0)
- Category 1a: Processor Name:
- Category 1a: Operating System Name (8)
- Category 1a: System Memory (1/0/0/0/0)
- Category 1a: Storage (3/0/0/0/0/0/0/0/0)
- Category 1a: Long Life Power Used for Sleep Mode (8)
- Category 1a: OS Mode (4/1/0/0/0/0/0)
- Category 1a: Sleep Mode (2/0/0/0/0)
- Category 1a: Long Life (4/1/0/0/0/0)
- Category 1a: Short Life (2/0/0/0/0)
- Category 1a: New (1/1/0/0/0/0/0/0/0)
- Category 1a: Additional Accessories (3/0/0/0/0)
- Category 1a: Tech (2/0/0/0/0/0/0/0)
- Category 1a: Processor Name (8)
- Category 1a: Processor Name:
- Category 1a: Operating System Name (8)
- Category 1a: System Memory (1/0/0/0/0)
- Category 1a: Storage (3/0/0/0/0/0/0/0/0)
- Category 1a: Long Life Power Used for Sleep Mode (8)
- Category 1a: OS Mode (4/1/0/0/0/0/0)
- Category 1a: Sleep Mode (2/0/0/0/0)
- Category 1a: Long Life (4/1/0/0/0/0)
- Category 1a: Short Life (2/0/0/0/0)
- Category 1a: New (1/1/0/0/0/0/0/0/0)
- Category 1a: Additional Accessories (3/0/0/0/0)
- Category 1a: Tech (2/0/0/0/0/0/0/0)
- Category 1a: Processor Name (8)
- Category 1a: Processor Name:



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ENERGY STAR Certified Computer LEVA ENERGY STAR

Category 02: Processor Name#	Intel® Core™ i3-3220
Category 03: Operating System Available	Windows 7
Category 04: Power-Assist System Speed Per Core (GHz)	3.4
Category 05: System Memory (GB)	4.00
Category 06: Graphics Capability	GT 32
Category 07: Device/Lane Power Mode#	Sleep Mode
Category 08: Long Idle Power Used for Sleep Mode#	W
Category 09: Off Mode (watts)	1.4
Category 10: Sleep Mode Available	2.5
Category 11: Long Idle Available	2000
Category 12: Start-Up Available	0.17
Category 13: Real Time Addressable RAM (GB)	1.30
Category 14: Functional Audio Abstraction (FMA) #	118.9
Category 15: TSC of Mode (MHz)	200.3
Sleep Mode Available When User is Present (watts)	20
Display Sleep Mode Current Time (over 500 msec) (mA)	10
ACI (Watt or LUM) From Sleep	Single Disabled Under 40 Conditional
Will be issued if they achieve 100% or higher efficiency Meets 100% or higher efficiency than 100% or higher Transitioning to sleep or off mode #	99%
Data Available On Model #	Available
Data Available #	02 (100%)*
Power #	Internal System Components Have 2.00 Watt, 2.00 Watt, 2.00 Watt, 2.00 Watt, 2.00 Watt

Additional Product Information
No additional information provided

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