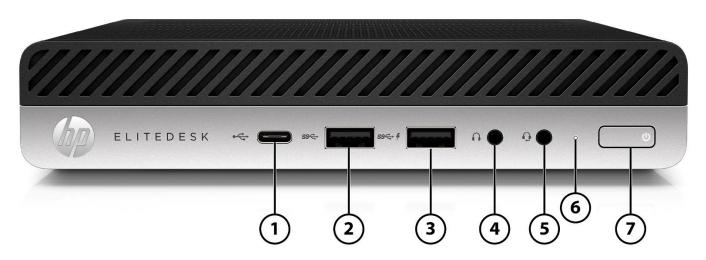
HP EliteDesk 800 G4 Desktop Mini Business PC

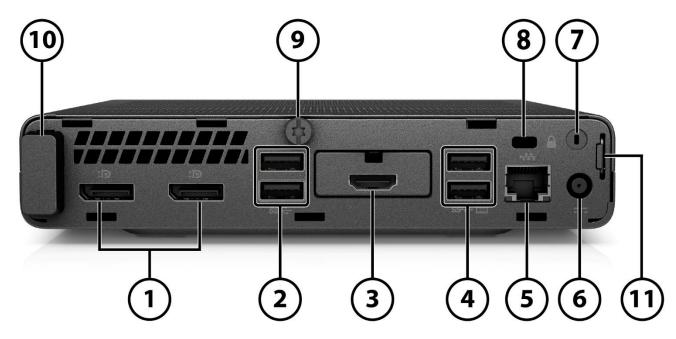


- 1. USB Type-C[™] 3.1 Gen 2 Port (with Fast Charging)
- 2. USB 3.1 Gen 2 Type A (10GBits/s data speed)
- 3. USB 3.1 Gen 1 Type A (charging port)
- 4. Headphone connector

- 5. Universal Audio Jack with CTIA headset support
- 6. Hard Drive activity light
- 7. Dual-state power button



HP EliteDesk 800 G4 Desktop Mini Business PC



- DisplayPort™ 1.2 1.
- USB 3.1 Gen 2 (10GBits/s data speed) Type A 2.
- 3. Configurable Option card slot (Choice of DisplayPort™ 1.2, HDMI[™] 2.0, VGA, USB Type-C[™] with alt mode display, USB Type-C™ with Power Delivery, Discrete Graphics Option Card with DisplayPort™ 1.4, Thunderbolt 3.0, Serial Port, Fiber NIC)
- 4. USB 3.1 Gen 1 (5GBits/s data speed) Type A allows for wake from S4/S5 with keyboard/mouse when 11. Padlock Loop connected and enabled in BIOS
- 5. **RJ-45 Network Adapter**

- Power connector
- WLAN External Antenna Punchout 7.
- Universal cable lock slot 8.
- 9. Cover Release Thumbscrew
- 10. WLAN Internal Antenna

Not Shown

Slots (1) Internal M.2 2230 connector for WLAN

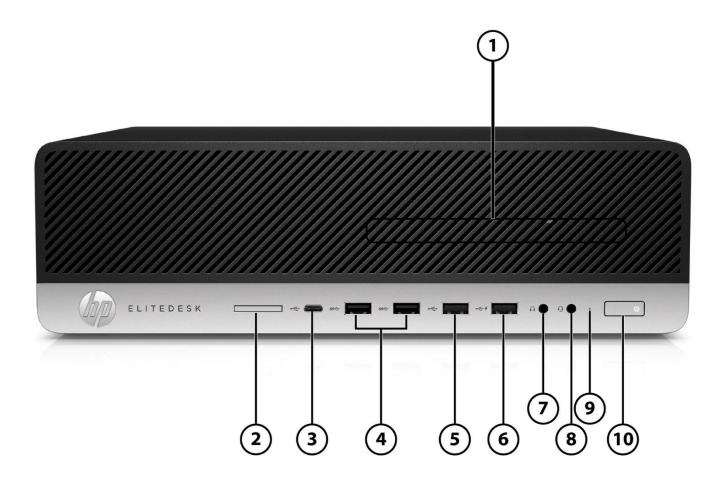
(2) Internal M.2 SSD storage (2230 or 2280 connector)

(1) 2.5- inch SATA drive Bay

Mounting Support for

- VESA Sleeve
- Quick Release Bracket
- B300/B500 Mounting bracket

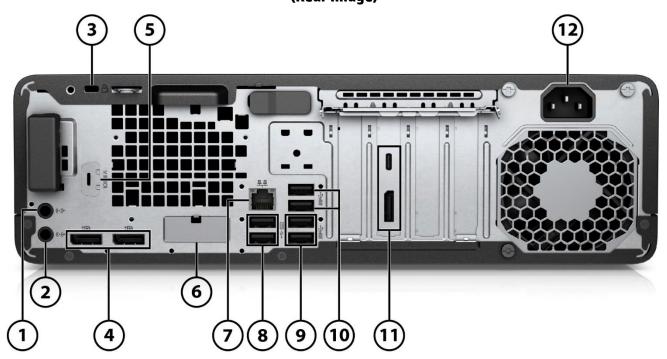
HP EliteDesk 800 G4 Small Form Factor Business PC



- 1. Slim optical drive (optional)
- 2. SD 4 Card Reader (optional)
- 3. USB Type-C[™] port (10 Gbit/s data speed)
- 4. USB 3.1 Gen2 ports (2) (10 Gbit/s data speed)
- 5. USB 2.0 port

- 6. USB 2.0 (fast charging port)
- 7. Headphone connector
- 8. Universal Audio Jack with CTIA headset support
- 9. Hard drive activity light
- 10. Dual-state power button

HP EliteDesk 800 G4 Small Form Factor Business PC (Rear Image)



- 1. Audio-in connector
- 2. Audio-out connector for powered audio devices
- 3. Cable lock slot
- 4. Dual-Mode DisplayPort™ 1.2 (2)
- 5. Optional serial port shown here not installed
- 6. Optional port (DisplayPort™ 1.2, HDMI, VGA or USB-C™) (USB-C™ option has alt mode DisplayPort™ 1.2 or 15W output) shown here not installed
- 7. RJ-45 (network) jack
- 8. USB 2.0 ports with wake from S4/S5 (2)
- 9. USB 3.1 Gen2 ports (2) (10 Gbit/s data speed)
- 10. USB 3.1 Gen1 ports (2) (5 Gbit/s data speed)
- Optional Thunderbolt PCIe card shown here installed

Not shown

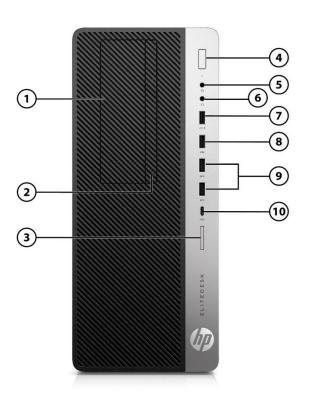
Slots

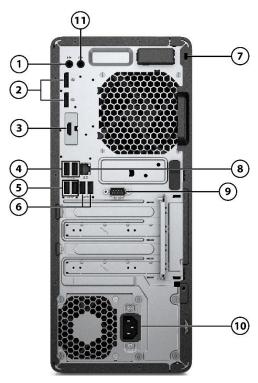
- (2) PCI Express x16 graphics connectors; one wired as an x4
- (2) PCI Express x1
- (2) internal M.2 SSD storage (2230 or 2280 connector)
- (1) internal M.2 WLAN (2230 connector)

Bays

- (1) 2.5" internal storage drive bay
- (2) 3.5" internal storage drive bay (convertible to 2.5")
- (1) 9.5mm slim optical drive bay

HP EliteDesk 800 G4 Tower Business PC





- 1. 5.25-inch Half-Height Drive Bay (behind bezel)
- 2. Slim optical drive (optional)
- 3. SD 4 Card Reader (optional)
- 4. Dual-state power button
- 5. Universal Audio Jack with CTIA headset support
- 6. Headphone connector
- 7. USB 2.0 port (fast charging port)
- 8. USB 2.0 port
- USB 3.1 Gen2 ports (2) (10 Gbit/s data speed)
- 10. USB Type-C™ port (10 Gbit/s data speed)

- 1. Audio-out jack for powered audio devices
- 2. Dual-Mode DisplayPort™ 1.2 (DP++) (2)
- Optional port (DisplayPort™ 1.2, HDMI, VGA or USB-C™) (USB-C™ option has alt mode DisplayPort™ 1.2 or 15W output) – Shown here HDMI installed
- 4. USB 2.0 ports with wake from S4/S5 (2)
- 5. USB 3.1 Gen2 ports (2) (10 Gbit/s data speed)
- 6. USB 3.1 Gen1 ports (2) (5 Gbit/s data speed)
- 7. Cable lock slot
- 8. RJ-45 (network) jack
- 9. Optional serial port shown here installed
- 10. Power cord connector
- 11. Audio-in jack

Not shown

Bavs

- (1) 2.5" internal storage drive bay
- (2) 3.5" internal storage drive bay (convertible to 2.5")
- (1) 5.25" half-height drive bay
- (1) 9.5mm slim optical drive bay

Slots

- (2) PCI Express x16 graphics connectors; one wired as an x4
- (2) PCI Express x1
- (2) internal M.2 SSD storage (2230 or 2280 connector)
- (1) internal M.2 WLAN (2230 connector)

HP EliteOne 800 G4 All-in-One Business PC (23.8" Touch and Non-Touch)



1. Camera (optional)

2. Speakers (optional)

Infrared (IR) and dual facing camera (optional)



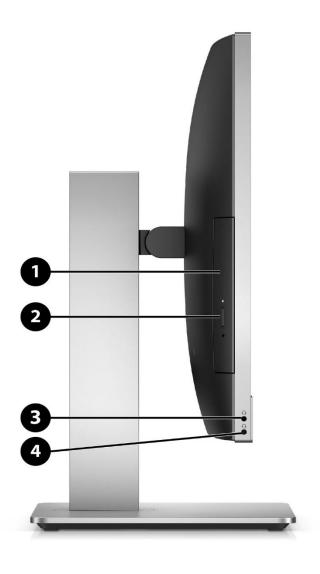
- 1. Camera light
- 2. IR camera light
- 3. Full High Definition (FHD) camera
- 4. IR camera
- 5. Rear camera adjustment wheel
- 6. Digital microphones
- 7. Camera light
- 8. FHD camera

Full High Definition (FHD) camera (optional)



- 1. Camera light
- 2. FHD camera
- 3. Digital microphones

HP EliteOne 800 G4 All-in-One Business PC (23.8" Touch and Non-Touch)



- 1. Optical disc drive (optional)
- 2. Optical disc drive eject button (optional)

- 3. Universal Audio Jack with CTIA headset support
- 4. Headphone connector

HP EliteOne 800 G4 All-in-One Business PC (23.8" Touch and Non-Touch)



Bottom components and rear ports (behind security cover)

- 1. USB 3.1 Gen 2 Type-A ports (2) (one charging) (10 Gbit/s data speed)
- 2. Audio line-out connector
- 3. USB 3.1 Gen 2 Type-A ports (2) (10 Gbit/s data speed)
- 4. RJ-45 (network) jack
- 5. Power connector
- 6. USB 3.1 Gen 1 Type-A ports (2) (keyboard/mouse wake capable) (5 Gbit/s data speed)
- Dual-Mode DisplayPort™ 1.2 (DP++) for integrated graphics models or Dual-Mode DisplayPort™ 1.4 (DP++) for discrete graphics models
- 8. HDMI connector
- 9. SD card reader 4.0 (optional)
- 10. USB 3.1 Type-C[™] Gen 2 port (10 Gbit/s data speed)
- 11. Dual-state power button

Not shown

Slots

- (1) internal M.2 PCIe x1 connector for optional wireless NIC
- (2) internal M.2 PCIe x4 connector for optional m.2 SSD

Bays

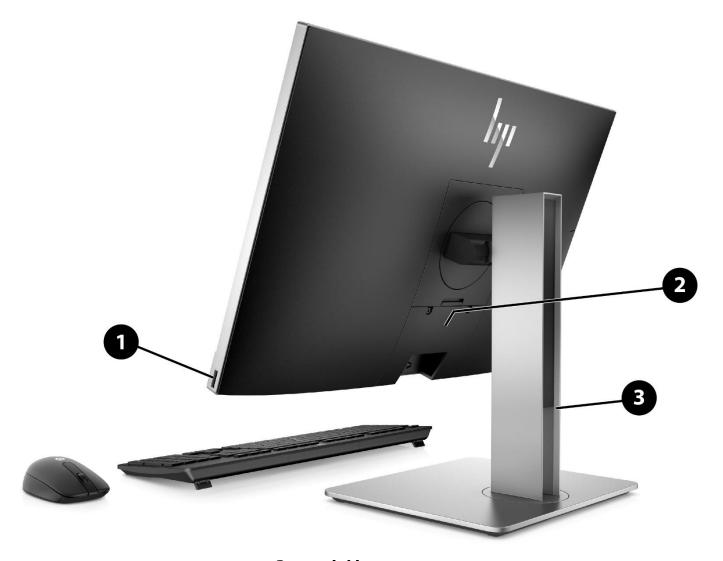
(1) 2.5" internal storage drive bay

VFSA

Support for VESA 100 mounting system on back of PC chassis (mounting hardware sold separately)



HP EliteOne 800 G4 All-in-One Business PC (23.8" Touch and Non-Touch)



Rear and side components

- 1. Fingerprint reader (optional)
- 2. Rear port cover

3. Adjustable height stand (optional)

Features

AT A GLANCE

- Choice of four form factors: Tower, Small Form Factor, Desktop Mini and All-In-One (touch/non-touch)
- Intel® Q370 chipset supporting Intel® 8th generation Core™ processors, featuring integrated Intel® UHD Graphics and Intel® vPro™ Technology (available with Core i5 and Core i7 processors) 1,4
- Processors up to 95W on TWR, SFF and DM
- Intel® UHD graphics as well as optional discrete graphics
- Intel® Ethernet Connection I219LM GbE LOM integrated network connection
- DDR4 Synchronous Dynamic Random Access Memory (SDRAM) (Transfer rates up to 2666 MT/s)
- Support for up to three monitors via two standard DisplayPort[™] 1.2 connectors and an optional third video port connector which provides the following choices: HDMI, VGA, DisplayPort[™] 1.2, or USB Type-C[™] with DisplayPort[™] 1.2 for all platforms; USB Type-C[™] with DisplayPort[™] 1.2 and Power Delivery (PD) from Display for 800 G4 DM 35W (see Ports section for port availability by platform). AiO supports up to two additional monitors via DisplayPort[™] or HDMI connectors.²
- Configurable 3rd rear I/O with video port (HDMI, DisplayPort™ 1.2, VGA, Type-C™ with DisplayPort™ 1.2) or Thunderbolt
 3.0 (port on DM, PCIe card on TWR, SFF)
- Selection of discrete graphic cards to configure systems to up to 7 displays (TWR, SFF and DM 35W)²
- VR ready cards on the 800 G4 TWR
- Models can be configured with multiple data drives in a RAID array
- Skype for Business certified (AiO)
- Audio by Bang & Olufsen (AiO)
- Intel[®] Unite[™] available (AiO)
- EN 60601-1-2: 2015 compliant (AiO)
- Enhanced Security With:

HP Sure Click

HP Sure Start Gen4

HP Sure Run

HP Sure Recover

HP Manageability Integration Kit

HP WorkWise

HP BIOSphere Gen4

HP Client Security Manager Gen4

Notification with HP Image Assistant Gen3

Multifactor Authentication features include fingerprint reader (optional) and IR webcam (optional) both Windows Hello certified (AiO)

- High efficiency energy saving power supply options
- ENERGY STAR® certified. EPEAT® Gold registered where applicable/supported. Registration may vary by country. See
 http://www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for
 solar generator accessories at http://www.hp.com/go/options.
- CCC, CECP and SEPA Certified (TWR/SFF/DM)
- CECP Certified (AiO)
- TCO Edge for AiO (AiO)
- PC chassis and all internal components and modules are manufactured with low halogen content³
- Dust filter available for all platforms (except 65W and 95W Desktop Mini)
- Protected by HP Services, including limited warranties up to 3-3-3 (terms and conditions vary by country; certain restrictions and exclusions apply); Care Packs available with up to 5 years Next Business Day Onsite Hardware Support

2. DisplayPort™ multi-stream monitors 'daisy-chained' together.

NOTE: See important legal disclosures for all listed specs in their respective features sections



^{1.} Multi core 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. Intel's numbering, branding and/or naming is not a measurement of higher performance

^{3.} External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.

^{4.} Some functionality of vPro technology, such as Intel Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependant on 3rd party software providers. Compatibility of this generation of Intel vPro technology-based hardware with with future "virtual appliances" is yet to be determined."



PRODUCT NAME

HP EliteDesk 800 G4 Tower Business PC

HP EliteDesk 800 G4 Small Form Factor Business PC

HP EliteDesk 800 G4 Desktop Mini Business PC

HP EliteOne 800 G4 23.8-inch Touch and Non-Touch All-in-One Business PC

OPERATING SYSTEM

Preinstalled Windows® 10 Pro 64¹

Windows® 10 Pro 64 (National Academic License)²

Windows® 10 Home 641

Windows® 10 Home Single Language 641

FreeDos 2.0

Web-supported only Windows® 10 Enterprise 64¹

- 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 update 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. Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see https://aka.ms/ProEducation for Windows 10 Pro Education feature information.

NOTE: Your product does not support Windows 8 or Windows 7

In accordance with Microsoft's support policy, HP does not support the Windows® 8 or Windows 7 operating system on products configured with Intel and AMD® 7th generation and forward processors or provide any Windows® 8 or Windows 7 drivers on http://www.support.hp.com

CHIPSET

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® Q370 PCH-H− vPro™	<u>x</u>	<u>x</u>	<u>X</u>	<u>X</u>





PROCESSORS

Intel® 8th Generation Core™ Processors	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>Ai0</u>
Intel® Core™ i7 8700K Processor with Intel® UHD Graphics 630 (up to 3.7GHz ,12MB cache, 6 cores) 95W¹ Supports Intel® vPro™Technology⁴	х	х	х	
Intel® Core™ i7+ 8700K Processor with Intel® UHD Graphics 630 (2.4 GHz, up to 3.7GHz with Intel® Optane™ Memory, 12 MB cache, 6 cores) ^{1,2} Supports Intel® vPro™Technology ⁴	Х	х	х	
Intel® Core™ i7 8700 processor with Intel® UHD Graphics 630 (3.2 GHz, up to 4.6 GHz with Intel® Turbo Boost, 12 MB cache, 6 cores) ^{1,3} Supports Intel® vPro™Technology⁴	Х	х	х	х
Intel® Core™ i7+ 8700 processor (Core i7 and 16GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (3.2 GHz, up to 4.6 GHz with Intel® Turbo Boost, 12 MB cache, 6 cores) ^{1,2,3} Supports Intel® vPro™Technology ⁴	х	х	х	х
Intel® Core™ i7 8700T processor with Intel® UHD Graphics 630 (2.4 GHz, up to 4 GHz with Intel® Turbo Boost, 12 MB cache, 6 cores) ^{1,3} Supports Intel® vPro™Technology⁴	X			
Intel® Core™ i7+ 8700T Processor with Intel® UHD Graphics 630 (2.4 GHz, up to 4.0 GHz with Intel® Optane™ Memory, 12 MB cache, 6 cores) ^{1,2} Supports Intel® vPro™Technology ⁴	X			
Intel® Core™ i5 8600K Processor with Intel® UHD Graphics 630 (up to 3.6GHz, 9MB cache, 6 cores) 95W¹ Supports Intel® vPro™Technology⁴	Х	х	x	
Intel® Core™ i5+ 8600K processor (Core i5 and 16GB Intel® Optane™ memory) with Intel® HD Graphics 630 (3.1 GHz, up to 4.3 GHz with Intel® Turbo Boost, 9 MB cache, 6 cores) ^{1,2,3} Supports Intel® vPro™Technology⁴	х	х	х	
Intel® Core™ i5 8600 processor with Intel® UHD Graphics 630 (3.1 GHz, up to 4.3 GHz with Intel® Turbo Boost, 9 MB cache, 6 cores) ^{1,3} Supports Intel® vPro™Technology ⁴	X	х	x	х
Intel® Core™ i5+ 8600 processor (Core i5 and 16GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (3.1 GHz, up to 4.3 GHz with Intel® Turbo Boost, 9 MB cache, 6 cores) ^{1,2,3} Supports Intel® vPro™Technology ⁴	х	х	х	x
Intel® Core™ i5 8500 processor with Intel® UHD Graphics 630 (3.0 GHz, up to 4.1 GHz with Intel® Turbo Boost, 9 MB cache, 6 cores) ^{1,3} Supports Intel® vPro™Technology ⁴	Х	х	х	X
Intel® Core™ i5+ 8500 processor (Core i5 and 16GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (3.0 GHz, up to 4.1 GHz with Intel® Turbo Boost, 9 MB cache, 6 cores) ^{1,2,3} Supports Intel® vPro™Technology ⁴	х	х	х	x
Intel® Core™ i5 8500T processor with Intel® UHD Graphics 630 (2.1 GHz, up to 3.5 GHz with Intel® Turbo Boost, 9 MB cache, 6 cores) ^{1,3} Supports Intel® vPro™Technology ⁴	Х			
Intel® Core™ i5+ 8500T Processor with Intel® UHD Graphics 630 (2.1 GHz, up to 3.5 GHz with 16GB Intel® Optane™ Memory, 9 MB cache, 6 cores) ^{1,2} Supports Intel® vPro™Technology ⁴	х			



Intel® Core™ i5 8600T processor with Intel® UHD Graphics 630 (2.3 GHz, up to 3.7 GHz with Intel® Turbo Boost, 9 MB cache, 6 cores) ^{1,3} Supports Intel® vPro™Technology⁴	х			
Intel® Core™ i5+ 8600T Processor with Intel® UHD Graphics 630 (2.3 GHz, up to 3.7 GHz with 16GB Intel® Optane™ Memory, 9 MB cache, 6 cores) ^{1,2} Supports Intel® vPro™Technology⁴	X			
Intel® Core™ i3 8300 processor with Intel® UHD Graphics 630 (3.7 GHz, 8 MB cache, 4 cores)¹	Х	X	X	х
Intel® Core™ i3 8100 processor with Intel® UHD Graphics 630 (3.6 GHz, 6 MB cache, 4 cores)¹	Х	X	X	х
Intel® Core™ i3 8100T processor with Intel® UHD Graphics 630 (3.1 GHz, 6 MB cache, 4 cores)¹	Х			
Intel® Core™ i3 8300T processor with Intel® UHD Graphics 630 (3.2 GHz, 8 MB cache, 4 cores)¹	X			

Intel® 8th Generation Pentium® Processors	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® Pentium® Gold G5600 processor with Intel® UHD Graphics 630 (3.9 GHz, 4 MB cache, 2 cores)¹	Х	X	Х	х
Intel® Pentium® Gold G5500 processor with Intel® UHD Graphics 630 (3.8 GHz, 4 MB cache, 2 cores)¹	Х	X	Х	х
Intel® Pentium® Gold G5400 processor with Intel® UHD Graphics 610 (3.7 GHz, 4 MB cache, 2 cores)¹	Х	X	X	х
Intel® Pentium® Gold G5400T processor with Intel® UHD Graphics 610 (3.1 GHz, 4 MB cache, 2 cores)¹	Х			
Intel® Pentium® Gold G5500T processor with Intel® UHD Graphics 630 (3.2 GHz, 4 MB cache, 2 cores)¹	Х			

Intel® 8th Generation Celeron™ Processors	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® Celeron® G4900 processor with Intel® UHD Graphics 610 (3.1 GHz, 2 MB cache, 2 cores)¹	X	Х	X	Х
Intel® Celeron® G4900T processor with Intel® UHD Graphics 610 (2.9 GHz, 2 MB cache, 2 cores)¹	X			
Intel® Celeron® G4920 processor with Intel® UHD Graphics 610 (3.2 GHz, 2 MB cache, 2 cores)¹	X			

^{1:} Multi-core 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. Intel's numbering, branding and/or naming is not a measurement of higher performance.



^{2.} Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system.

^{3.} Intel® Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost for more information.

^{4.} Some functionality of vPro technology, such as Intel Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependant on 3rd party software providers. Compatibility of this generation of Intel vPro technology-based hardware with with future "virtual appliances" is yet to be determined."

<u>SFF</u>

TWR

Ai0

<u>DM</u>



Integrated Intel® Graphics

Features

GRAPHICS

Intel® UHD Graphics 610 (integrated on 8th gen Pentium® Gold 65400, x x x x x x x x x	Intel® UHD Graphics 630 (integrated on 8th gen Core i7/i5/i3, Pentium® Gold G5600, G5500)	X	х	х	х
AMD® Radeon™ RX550 4GB 2DP 1HDMI Graphics Card		х	х	х	х
AMD® Radeon™ RX560 4GB GDDR5	Optional Discrete Graphics Solutions	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
AMD® Radeon™ RX580 4GB FH PCle x16	AMD® Radeon™ RX550 4GB 2DP 1HDMI Graphics Card			Х	
AMD® Radeon™ R7 430 2GB VGA+DP Graphics Card X	AMD® Radeon™ RX560 4GB GDDR5	X			X
AMD® Radeon™ R7 430 2GB 2DP Graphics Card X	AMD® Radeon™ RX580 4GB FH PCIe x16			Х	
NVIDIA® GEFORC® GTX 1060 3GB Graphics Card X	AMD® Radeon™ R7 430 2GB VGA+DP Graphics Card			Х	
NVIDIA® Quadro P400 2GB Graphics Card	AMD® Radeon™ R7 430 2GB 2DP Graphics Card		X	X	
Adapters and Cables DM SFF TWR AIO HP DisplayPort™ Cable X	NVIDIA® GeForce® GTX 1060 3GB Graphics Card			Х	
HP DisplayPort™ Cable	NVIDIA® Quadro P400 2GB Graphics Card		Х	Х	
HP DisplayPort™ to DVI-D Adapter	Adapters and Cables	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP DisplayPort™ to HDMI 4K Adapter	HP DisplayPort™ Cable	X	X	Х	X
HP DisplayPort™ to VGA Adapter	HP DisplayPort™ to DVI-D Adapter	Х	X	Х	Х
HP USB-CTM to USB 3.0	HP DisplayPort™ to HDMI 4K Adapter	Х	Х	Х	Х
HP USB to Serial Port Adapter	HP DisplayPort™ to VGA Adapter	X	X	Х	Х
STORAGE 3.5 inch SATA Hard Disk Drives (HDD) DM SFF TWR AiO 500GB 7200RPM 3.5in SATA HDD X X X 1TB 7200RPM 3.5in SATA HDD X X X 2TB 7200RPM 3.5in SATA HDD X X X 500GB 7200RPM 2.5in SATA HDD X X X 1TB 7200RPM 2.5in SATA HDD X X X 2TB 5400RPM 2.5in SATA HDD X X X 500GB 7200RPM 2.5in SATA HDD X X X 500GB 7200RPM 2.5in Self Encrypted OPAL2 SATA HDD X X X 500GB 7200RPM 2.5in Self Encrypted Federal Information Processing Standard SATA HDD X X X 2.5 inch SATA Solid State Hybrid Drives (SSHD) DM SFF TWR AiO 500GB 5400RPM 2.5in SATA SSHD X X X X X 1TB 5400RPM 2.5in SATA SSHD X X X X X	HP USB-C™ to USB 3.0	Х	Х	Х	Х
3.5 inch SATA Hard Disk Drives (HDD) DM SFF TWR AiO	HP USB to Serial Port Adapter	X	X	Х	Х
SOOGB 7200RPM 3.5in SATA HDD	STORAGE				
TTB 7200RPM 3.5in SATA HDD		<u>DM</u>		· · · · · · · · · · · · · · · · · · ·	AiO
2.5 inch SATA Hard Disk Drives (HDD) DM SFF TWR AiO				Х	
2.5 inch SATA Hard Disk Drives (HDD) DM SFF TWR AiO 500GB 7200RPM 2.5in SATA HDD X X X X 1TB 7200RPM 2.5in SATA HDD X X X X 2TB 5400RPM 2.5in SATA HDD X X X X 500GB 7200RPM 2.5in Self Encrypted OPAL2 SATA HDD X X X X 500GB 7200RPM 2.5in Self Encrypted Federal Information Processing Standard SATA HDD X X X X 2.5 inch SATA Solid State Hybrid Drives (SSHD) DM SFF TWR AiO 500GB 5400RPM 2.5in SATA SSHD X X X X 1TB 5400RPM 2.5in SATA SSHD X X X X					
SOOGB 7200RPM 2.5in SATA HDD X	2TB 7200RPM 3.5in SATA HDD		Х	Х	
TIB 7200RPM 2.5in SATA HDD ZTB 5400RPM 2.5in SATA HDD XXXXXXXX S00GB 7200RPM 2.5in Self Encrypted OPAL2 SATA HDD XXXXXXXXX S00GB 7200RPM 2.5in Self Encrypted Federal Information Processing Standard SATA HDD 2.5 inch SATA Solid State Hybrid Drives (SSHD) S00GB 5400RPM 2.5in SATA SSHD XXXXXX XXXXX AiO TIB 5400RPM 2.5in SATA SSHD XXXXXX XXXXX XXXXX XXXXX XXXXX XXXX	2.5 inch SATA Hard Disk Drives (HDD)	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
2TB 5400RPM 2.5in SATA HDD XXXXX 500GB 7200RPM 2.5in Self Encrypted OPAL2 SATA HDD XXXXXX XXXXX XXXXX XXXXX XXXXX XXXX	500GB 7200RPM 2.5in SATA HDD	X	X	Х	X
500GB 7200RPM 2.5in Self Encrypted OPAL2 SATA HDD SOOGB 7200RPM 2.5in Self Encrypted Federal Information Processing Standard SATA HDD 2.5 inch SATA Solid State Hybrid Drives (SSHD) SOOGB 5400RPM 2.5in SATA SSHD X X X X X X X X X X X X X X X X X X X	1TB 7200RPM 2.5in SATA HDD	X	X	X	X
500GB 7200RPM 2.5in Self Encrypted Federal Information Processing Standard SATA HDD 2.5 inch SATA Solid State Hybrid Drives (SSHD) 500GB 5400RPM 2.5in SATA SSHD X X X X X X X X X X X X X	2TB 5400RPM 2.5in SATA HDD	X	X	X	X
Standard SATA HDD DM SFF TWR AiO 500GB 5400RPM 2.5in SATA SSHD X X X X 1TB 5400RPM 2.5in SATA SSHD X X X X	500GB 7200RPM 2.5in Self Encrypted OPAL2 SATA HDD	X	X	X	X
500GB 5400RPM 2.5in SATA SSHD X X X X 1TB 5400RPM 2.5in SATA SSHD X X X X	j , , , , , , , , , , , , , , , , , , ,	Х	Х	Х	X
1TB 5400RPM 2.5in SATA SSHD	2.5 inch SATA Solid State Hybrid Drives (SSHD)	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
	500GB 5400RPM 2.5in SATA SSHD	X	Х	Х	X
2TB 5400RPM 2.5in SATA SSHD X X	1TB 5400RPM 2.5in SATA SSHD	X	X	Х	X
	2TB 5400RPM 2.5in SATA SSHD	X			X





2.5 inch Solid State Drives (SSD)	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
128GB 2.5in SATA Three Layer Cell SSD	X	X	Х	Х
256GB 2.5in SATA Three Layer Cell SSD	X	X	Х	Х
512GB 2.5in SATA Three Layer Cell SSD	X	X	Х	Х
256GB 2.5in SATA Self Encrypted OPAL2 Three Layer Cell SSD	X	X	Х	Х
512GB 2.5in SATA Self Encrypted OPAL2 Three Layer Cell SSD	X	Х	Х	Х
256GB 2.5in SATA Self Encrypted Federal Information Processing Standard SSD	Х	Х	Х	X
512GB 2.5in SATA Self Encrypted Federal Information Processing Standard SSD	Х	Х	Х	Х
M.2 PCIe NMVe Solid State Drives (SSD)	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
128GB M.2 2280 PCIe NVMe SSD	X	X	Х	Х
256GB M.2 2280 PCIe NVMe SSD	X	Х	Х	Х
512GB M.2 2280 PCIe NVMe SSD	X	X	Х	Х
128GB M.2 2280 PCIe NVMe Three Layer Cell SSD	X	X	Х	Х
256GB M.2 2280 PCIe NVMe Three Layer Cell SSD	X	X	Х	Х
512GB M.2 2280 PCIe NVMe Three Layer Cell SSD	X	X	Х	Х
1TB M.2 2280 PCIe NVMe Three Layer Cell SSD	X	Х	Х	Х
256GB M.2 2280 PCIe NVMe Self Encrypted OPAL2 Three Layer Cell SSD	X	X	Х	Х
512GB M.2 2280 PCIe NVMe Self Encrypted OPAL2 Three Layer Cell SSD	X	Х	Х	Х
Optical Disc Drives	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP 9.5mm Slim DVD-ROM Drive		X	Х	X
HP 9.5mm Slim DVD Writer Drive		X	Х	Х
HP 9.5mm Slim Blu-Ray Writer Drive		Х	X	Х
Media Card Reader	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
SD 4.0 with 5-in-1 Interface (Supports SD, SDXC, SDHC, UHS-I, UHS-II)		X	X	Х

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.





MEMORY

Memory Type	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
DDR4-2666 (Transfer rates up to 2666 MT/s), 32 GB, 2 SODIMM	X			X
DDR4-2666 (Transfer rates up to 2666 MT/s), 64 GB, 4 DIMM		Х	X	

Memory Configuration	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
4 GB (1 x 4 GB)	Х	X	X	X
8 GB (2 x 4 GB)	Х	X	X	X
8 GB (1 x 8 GB)	Х	X	X	X
16 GB (2 x 8 GB)	Х	X	X	X
16 GB (1 x 16 GB)	Х	X	X	X
32 GB (2 x 16 GB)	Х	Х	X	X
32 GB (4 x 8 GB)		X	X	
64 GB (4 x 16 GB)		Х	X	

NOTE: For systems configured with more than 3 GB of memory and a 32-bit operating system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system.

Memory modules support data transfer rates up to 2666 MT/s; actual data rate is determined by the system's configured processor. See processor specifications for supported memory data rate.

NOTE: All memory slots are customer accessible / upgradeable.

NETWORKING/COMMUNICATIONS

Ethernet (RJ-45) Integrated	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® I219-LM Gigabit Network Connection LOM (standard)	Х	X	X	X
Intel® Ethernet I210-T1 PCIe x1 Gb Network Interface Card (optional)		X	Х	

Wireless ¹	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® 9560 802.11AC 2x2 with Bluetooth® M.2 Combo Card vPro™	X	Х	Х	Х
Intel® 9560 802.11AC 2x2 with Bluetooth® M.2 Combo Card non-vPro™	Х	X	Х	X
Realtek RTL8822BE 802.11ac 2x2 with Bluetooth® M.2 Combo Card		Х	X	X
Realtek RTL8821CE 802.11ac 1x1 with Bluetooth® M.2 Combo Card		Х	X	X
Intel® 7265 802.11AC 2x2 with Bluetooth® M.2 Combo Card non-vPro™ (Brazil)	Х	х		
Intel® 7265 802.11AC 2x2 M.2 Combo Card non-vPro™ with external antenna (Brazil)	X	х		

^{1.} Wireless access point and Internet service required and not included. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices





KEYBOARDS AND POINTING DEVICES

oards	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP USB Conferencing Keyboard	Х	X	X	Х
HP Wireless Collaboration Keyboard	Х	X	X	X
HP USB and PS/2 Washable Keyboard ¹	Х	X	X	X
HP USB Smart Card (CCID) Keyboard	Х	X	Х	Х
HP USB Business Slim Keyboard	Х	X	Х	Х
HP USB Keyboard	Х	Х	Х	Х
HP PS/2 Business Slim Keyboard ¹		Х	Х	
HP PS/2 Keyboard ¹		Х	Х	
HP Wireless Business Slim Keyboard and Mouse	Х	Х	Х	Х

Mouse	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP PS/2 Mouse ¹		X	Х	
HP USB Optical Mouse	X	X	Х	Х
HP USB Premium Mouse	X	X	X	X
HP USB 1000dpi Laser Mouse	X	X	Х	X
HP USB and PS/2 Washable Mouse ¹		X	Х	X
Antimicrobial USB Mouse ²	X	X	Х	X
HP USB Hardened Mouse ²	X	X	X	X

^{1.} PS/2 port not available on EliteOne 800 G4 AiOs

^{2.} Not available in all regions



SECURITY

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Trusted Platform Module (TPM) 2.0 (Infineon SLB9670). Common Criteria EAL4+ Certified. FIPS 140-2 Level 2 Certified	Х	X	Х	Х
Solenoid Lock & Intrusion Sensor		X	X	
Intrusion Sensor for DM/AiO (integrated in the PCA, can be enabled/disabled through BIOS)	Х			Х
Support for chassis cable lock devices	X	X	X	X
Support for chassis padlocks devices	Х	Х	X	
HP Fingerprint Reader (standard on 800 G4 AiO touch models and optional on non-touch models)				Х
SATA port disablement (via BIOS)	X	X	X	X
Serial, USB enable/disable (via BIOS)	X	X	X	X
Intel® Identify Protection Technology (IPT) ¹	Х	Х	X	X
Serial, parallel, USB enable/disable (via BIOS)	Х	X	X	X
Optional USB Port Disable at factory (user configurable via BIOS)	X	Х	X	X
Removable media write/boot control	Х	Х	X	X
Power-on password (via BIOS)	Х	Х	X	X
Setup password (via BIOS)	Х	Х	Х	Х

^{1.} Models configured with Intel® Core™ processors have the ability to utilize advanced security protection for online transactions. IPT, used in conjunction with participating web sites, provides double identity authentication by adding a hardware component in addition to the usual user name and password. IPT is initialized through an HP Client Security module.



Features

PORTS

Ports – Standard	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
USB 2.0	N/A	2 including 1 fast charging (front); 2 including wake from S4/S5 (rear)	2 including 1 fast charging (front); 2 including wake from S4/S5 (rear)	N/A
USB 3.1 Gen 1	1 front, 2 rear	2 rear	2 rear	2 rear
USB 3.1 Gen 2	1 front, 2 rear	2 front; 2 rear	2 front; 2 rear	4 rear
USB Type-C™ 3.1 Gen 2	1 front; 1 rear (option)	1 front; 1 rear (option)	1 front; 1 rear (option)	1 rear
Video	2 DisplayPort™ 1.2 (rear) 1 Configurable video port (rear) (Choice of DisplayPort™ 1.2, HDMI™ 2.0, VGA, or USB Type-C™ with alt mode display port and power delivery) For models with discrete graphics: 1 DisplayPort™ 1.4 (rear)	2 DisplayPort™ 1.2 (rear) 1 Configurable video port (rear) (Choice of DisplayPort™ 1.2, HDMI™ 2.0, VGA, or USB Type-C™ with alt mode display or 15W output)	2 DisplayPort™ 1.2 (rear) 1 Configurable video port (rear) (Choice of DisplayPort™ 1.2, HDMI™ 2.0, VGA, or USB Type-C™ with alt mode display port or 15W output)	For models with integrated graphics: 1 DisplayPort™ 1.2 (rear) 1 HDMI™ 2.0 (rear) For models with discrete graphics 1 DisplayPort™ 1.4 (rear) 1 HDMI™ 2.0 (rear)
Audio	1 Headphone (front), 1 Universal Audio Jack with CTIA headset support (front))	1 Headphone (front), 1 Universal Audio Jack with CTIA headset support (front)); 1 Audio-out (rear), 1 Audio-in (rear)	1 Headphone (front), 1 Universal Audio Jack with CTIA headset support (front)); 1 Audio-out (rear), 1 Audio-in (rear)	1 Line out (rear) 1 CTIA UAJ (side) 1Audio out (side)
Network Interface	RJ45	RJ45	RJ45	RJ45

I/O Ports – Optional	<u>DM</u>	<u>SFF</u>	<u>MT</u>	
Serial (RS-232)	1 (rear)(option)	1 (rear) (option)	1 (rear) (option)	N/A
Serial (RS-232) and PS/2 combination	N/A	1 (rear) (option)	1 (rear) (option)	N/A

Features

I/O Ports – Internal Ports	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Internal SATA storage connector(s)	N/A	3	4	2
Internal SATA storage connector (Data and Power)	1	N/A	N/A	N/A

ots	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
M.2 PCIe	(1) M.2 PCIe x1 2230 (for WLAN) (2) M.2 PCIe x4 2280/2230 Combo (for storage)	(1) M.2 PCIe x1 2230 (for WLAN) (2) M.2 PCIe x4 2280/2230 Combo (for storage)	(1) M.2 PCIe x1 2230 (for WLAN) (2) M.2 PCIe x4 2280/2230 Combo (for storage)	(1) M.2 PCIe x1 2230 (for WLAN) (2) M.2 PCIe x4 2280/2230 Combo (for storage)
PCI Express v3.0 x1	N/A	2	2	N/A
PCI Express v3.0 x16 (wired as x4)	N/A	1	1	N/A
PCI Express v3.0 x16	N/A	1	1	N/A

Bays	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
5.25" Half Height	N/A	N/A	1	N/A
9mm Slim Optical Disc Drive (ODD)	N/A	1	1	1
SD Card Reader	N/A	1	1	1
2.5" Internal Storage Drive	1	1	1	1
3.5" Internal Storage Drive	N/A	2	2	N/A

NOTE: The TWR can support a single graphics card up to 75W. When configured with dual graphics cards support is limited to 35W for each.



SOFTWARE COMPONENTS AND APPLICATIONS WITH WINDOWS

BIOS

HP BIOSphere Gen4 ¹⁷
HP DriveLock & Automatic DriveLock
BIOS Update via Network
Master Boot Record Security
Power On Authentication
HP Secure Erase ¹⁸
Absolute Persistence Module ¹⁹
Pre-boot Authentication
HP Wireless Wakeup

Software

HP Native Miracast Support ¹⁵
HP Velocity
HP ePrint Driver + JetAdvantage ²⁰
HP Hotkey Support - CMIT
HP Recovery Manager
HP Jumpstart
HP Support Assistant ²¹
HP Noise Cancellation Software
HP WorkWise ³⁷
HP PhoneWise ²⁹
Buy Office (sold separately)
Intel® Unite (optional for AiOs)

Manageability Features

HP Driver Packs ²²
HP System Software Manager (SSM)
HP BIOS Config Utility (BCU)
HP Client Catalog
HP Manageability Integration Kit Gen2 ²³
Ivanti Management Suite ²⁴

Client Security Software

HP Client Security Suite Gen4 ²⁵ including: HP Security Manager ²⁶ (including Credential Manager, HP Password Manager, HP Spare Key) HP Fingerprint Sensor ³¹ HP Device Access Manager HP Power On Authentication Microsoft Defender ²⁷



Features

Security Management

HP Secure Erase¹⁸

TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified) 32

SATA 0.1 port disablement (viaBIOS)

RAID configurations³³

Serial, USB enable/disable (viaBIOS)

Power-on password (viaBIOS)

Setup password (viaBIOS)

Support for chassis padlocks and cable lock devices

Integrated hood sensor

HP Sure Click³⁸

HP Sure Start Gen430

HP Sure Run³⁵

HP Sure Recover³⁶

- 15. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming
- 17. HP BIOSphere Gen4 requires Intel® or AMD® 8th Gen processors. Features may vary depending on the platform and configurations.
- 18. For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method.
- 19. Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/computrace-agreement. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- 20. HP ePrint Driver 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/eprintcenter). Print times and connection speeds may vary.
- 21. HP Support Assistant requires Windows and Internet access.
- 22. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 23. HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.
- 24. Ivanti Management Suite subscription required.
- 25. HP Client Security Suite Gen4 requires Windows and Intel® or AMD® 8th generation processors.
- 26. HP Password Manager requires Internet Explorer or Chrome or FireFox. Some websites and applications may not be supported. User may need to enable or allow the add-on / extension in the internet browser.
- 27. Microsoft Defender Opt in and internet connection required for updates.
- 29. HP PhoneWise Client is only available on select platforms. For supported platforms and HP PhoneWise system requirements see http://www.hp.com/go/HPPhoneWise.
- 30. HP Sure Start Gen4 is available on HP EliteBook products equipped with Intel® 8th generation processors
- 31. HP Fingerprint Sensor available on 800 G4 AiO touch models and optional on 800 G4 AiO non-touch models
- 32. Firmware TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).
- 33. RAID configuration is optional and does require a second hard drive.
- 35. HP Sure Run is available on HP Elite products equipped with 8th generation Intel® or AMD® processors.
- 36. HP Sure Recover is available on HP Elite PCs with 8th generation Intel® or AMD® processors and requires an open, wired network connection. Not available on platforms with multiple internal storage drives, Intel® Optane™. You must back up important files, data, photos, videos, etc. before use to avoid loss of data.

 37. HP WorkWise smartphone app is available as a free download on Google Play.
- 38. HP Sure Click is available on select HP platforms and supports Microsoft® Internet Explorer, Google Chrome, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode. Check

http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-0922ENW for all compatible platforms as they become available.





ENVIRONMENTAL & INDUSTRY

ENERGY STAR® certified models available

EPEAT® registered where applicable/supported. See http://www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at http://www.hp.com/go/options. Low halogen (chassis, all internal components and modules)¹

TAA compliant models available

1. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

UNIT ENVIRONMENT AND OPERATING CONDITIONS

General Unit Operating Guidelines

- Keep the computer away from excessive moisture, direct moisture and the extremes of heat and cold, to ensure that unit
 is operated within the specified operating range.
- Leave a 10.2 cm (4 in) clearance on all vented sides of the computer to permit the required airflow.
- Never restrict airflow into the computer by blocking any vents or air intakes.
- Do not stack computers on top of each other or place computers so near each other that they are subject to each other's re-circulated or preheated air.
- Occasionally clean the air vents on the front, back, and any other vented side of the computer. Lint, dust and other foreign matter can block the vents and limit the airflow.
- If the computer is to be operated within a separate enclosure, intake and exhaust ventilation must be provided on the enclosure, and the same operating guidelines listed above will still apply.

Temperature Range Operating: 50° to 95° F (10° to 35° C)¹

Non-operating: -22° to 140° F (-30° to 60° C)

Relative Humidity Operating: 10% to 90% (non-condensing at ambient)

Non-operating: 5% to 95% (non-condensing at ambient)

Maximum Altitude Operating: 5000m

(unpressurized) Non-operating: 50000ft (15240 m)

1. Operating temperature is de-rated 1.0 deg C per 300 m (1000 ft) to 3000 m (10,000 ft) above sea level, no direct sustained sunlight. Maximum rate of change is 10 deg C/Hr. The upper limit may be limited by the type and number of options installed.





ЦD	ElitaDas	L one	Desktop	Mini CA	cariac
HP	Elitebes	รห ชบบ	vesktob	Mini 64	series

Eco-Label Certifications	This product has received or is in th	e process of being cer	ified to the followi	ng approvals and may		
& declarations	be labeled with one or more of thes	e marks:				
	IT ECO declaration					
	• US ENERGY STAR®					
	• EPEAT® Gold registered in the Unit	ed States. See http://	www.epeat.net for	registration status in		
	your country. Search keyword gene	rator on HP's 3rd part	y option store for s	olar generator		
	accessories at http://www.hp.com/					
System Configuration	The configuration used for the Ener Desktop model is based on a "Typic			ssions data for the		
Energy Consumption (in accordance with US ENERGY STAR® test		· •				
method)	115VAC, 60Hz	230VAC, 50H	Iz	100VAC, 50Hz		
Normal Operation (Short idle)	13.599	13.514		13.099		
Normal Operation (Long idle)	12.211	11.765		12.367		
Sleep	1.318	1.312		1.322		
Off	0.616 NOTE: Energy efficiency data listed	0.618		0.618		
	model family. HP computers marke applicable U.S. Environmental Prote computers. If a model family does r efficiency data listed is for a typical power supply, and a Microsoft Wind	ection Agency (EPA) EN not offer ENERGY STAF ly configured PC featu	IERGY STAR® speci I® compliant config ring a hard disk dri	fications for urations, then energy		
Heat Dissipation*	115VAC, 60Hz	230VAC, 50H		100VAC, 50Hz		
Normal Operation	46.3726	46.0827	12	44.6676		
(Short idle)	40.3720	40.0027		44.0070		
Normal Operation	41.6395	40.1187		42.1715		
(Long idle)	41.0555	40.1107		72.1713		
Sleep	4.4944	4.4739		4.508		
Off	2.1006	2.1074		2.1074		
511	NOTE: Heat dissipation is calculated		ed watts assuming			
	attained for one hour.	i based on the measur				
Declared Noise	Sound Power			Pressure		
Emissions (in accordance with ISO 7779 and ISO 9296)	(L _{WAd} , bels)		(L _{pAm} , c	lecibels)		
Typically Configured – Idle	3.1		,	20		
Fixed Disk – Random writes	4.4			33		
Longevity and Upgrading	This product can be upgraded, poss features and/or components contain			ears. Upgradeable		
	Spare parts are available throughoup production.			" years after the end o		
Batteries	This battery(s) in this product comp	ly with EU Directive 20	006/66/EC			
	Batteries used in the product do no	contain:				
	Mercury greater the1ppm by weigh					
	Cadmium greater than 20ppm by w					
	Battery size: CR2032 (coin cell)					





	Battery type: Lithium				
Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This 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 and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the <gold> level in the U.S. See http://www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at http://www.hp.com/go/options</gold> Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. 				
		t contains 0% post-consumer recycled plastic (by wt.)			
		t is 95.1% recycle-able when properly disposed of at end	of life.		
Packaging Materials	External:	PAPER/Corrugated			
	Internal:	PLASTIC/EPE (Expanded Polyethylene)			
		PLASTIC/Polyethylene low density			
Material Usage	to the HP Get http://www.l	minated Flame Retardants — may not be used as flame ref I Hydrocarbons I Paraffins yde ed Diphenyl Methanes nates and sulfates ead compounds kide Batteries ishes must not be used on the external surface designed to e user. leting Substances nated Biphenyls (PBBs) nated Biphenyl Ethers (PBBEs) nated Biphenyl Oxides (PBBOs) nated Biphenyl (PCB) ated Terphenyls (PCT) hloride (PVC) — except for wires and cables, and certain referenced from most applications.	o be frequently handled or		



Packaging Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- · Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

End-of-life Management and Recycling

HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Global Citizenship Report

http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html

Eco-label certifications

http://www8.hp.com/us/en/hp-information/environment/ecolabels.html

ISO 14001 certificates:

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K _Certificate.pdf

and

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf





HP EliteDesk 800 Small Form Factor G4 series

Eco-Label Certifications	This product has received or is in t	he process of heina	certified to the fo	ollowing approvals and may	
& declarations	be labeled with one or more of the		certified to the re	ntowing approvats and may	
	• IT ECO declaration	oc marks.			
	• US ENERGY STAR®				
	• EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in				
	your country. Search keyword ger				
	accessories at http://www.hp.com				
System Configuration	The configuration used for the End	ergy Consumption a	nd Declared Noise	Emissions data for the	
	Desktop model is based on a "Typ				
Energy Consumption		•			
(in accordance with US					
ENERGY STAR® test					
method)	115VAC, 60Hz	230VAC,	50Hz	100VAC, 50Hz	
Normal Operation (Short idle)	12.055	12.0	8	12.501	
Normal Operation (Long idle)	11.68	11.90	08	11.766	
Sleep	1.101	1.164	14	1.1769	
Off	0.6302	0.625	58	0.9127	
	NOTE: Energy efficiency data liste	d is for an ENERGY S	TAR® compliant i	product if offered within the	
	model family. HP computers mark	ed with the ENERGY	/ STAR® Logo are	compliant with the	
	applicable U.S. Environmental Pro	tection Agency (EPA	A) ENERGY STAR®	specifications for	
	computers. If a model family does	not offer ENERGY S	STAR® compliant o	onfigurations, then energy	
	efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficie				
	power supply, and a Microsoft Wir	ndows® operating sy	/stem.		
Heat Dissipation*	115VAC, 60Hz	230VAC,	50Hz	100VAC, 50Hz	
Normal Operation (Short idle)	41.1076	41.19	28	42.6284	
Normal Operation (Long idle)	39.8288	40.60	63	40.1221	
Sleep	3.7544	3.970	06	4.0132	
Off	2.149	2.13		2.1585	
_	NOTE: Heat dissipation is calculate	ed based on the mea	asured watts, ass		
	attained for one hour.		,	3	
Declared Noise	Sound Power		Sc	ound Pressure	
Emissions	(L _{WAd} , bels)		(L	_{-pAm} , decibels)	
(in accordance with	·				
ISO 7779 and ISO 9296)					
Typically Configured – Idle	3.9			28	
Fixed Disk – Random writes	4.4			33	
Longevity and Upgrading	This product can be upgraded, pos features and/or components cont			eral years. Upgradeable	
	Spare parts are available through production.	out the warranty pe	riod and or for up	to "5" years after the end of	
Batteries	This battery(s) in this product com	nply with EU Directiv	re 2006/66/EC		
	Batteries used in the product do n	ot contain:			
	Mercury greater the1ppm by weig				
	Cadmium greater than 20ppm by				
	Caumum greater than 20ppm by	weigiit			
	Battery size: CR2032 (coin cell)				





	Battery type:	Lithium				
Additional Information	2011/65/EC. • This HP pro Directive – 20 • This product Water and To • This product See http://www.party.option • Plastics par	duct is designed to comply with the Waste Electrical and E	Electronic Equipment (WEEE) California; Safe Drinking the <gold> level in the U.S. eyword generator on HP's 3rd m/go/options</gold>			
	This produce	t is 95.1% recycle-able when properly disposed of at end	of life.			
Packaging Materials	External:	PAPER/Corrugated				
	Internal:	PLASTIC/EPE (Expanded Polyethylene)				
		PLASTIC/Polyethylene low density				
Material Usage		does not contain any of the following substances in exces neral Specification for the Environment at	s of regulatory limits (refer			
	•	hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pd	lf):			
	• Asbestos					
	Certain Azo Colorants Certain Prominated Flame Petardants					
	 Certain Brominated Flame Retardants – may not be used as flame retardants in plastics Cadmium 					
	Chlorinated Hydrocarbons					
	• Chlorinated Paraffins					
		• Formaldehyde				
		Halogenated Diphenyl Methanes				
		nates and sulfates				
		ead compounds				
		kide Batteries				
	• NICKEL — TINI	ishes must not be used on the external surface designed to	o be frequently nandled or			
		e user. eting Substances				
		nated Biphenyls (PBBs)				
		nated Biphenyl Ethers (PBBEs)				
		nated Biphenyl Oxides (PBBOs)				
	 Polychlorin 	ated Biphenyl (PCB)				
	• Polychlorinated Terphenyls (PCT)					
		Polyvinyl Chloride (PVC) — except for wires and cables, and certain retail packaging has been				
		emoved from most applications.				
	Radioactive Taibutul Time					
Packaging Usage		(TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)				
rackaying usaye		nese guidelines to decrease the environmental impact of p				
	materials.	ne use of heavy metals such as lead, chromium, mercury a	, , ,			
	• Eliminate th	he use of ozone-depleting substances (ODS) in packaging	materials.			
	• Design pack	kaging materials for ease of disassembly.				
	Maximize tl	ne use of post-consumer recycled content materials in pac	ckaging materials.			
	• Use readily	recyclable packaging materials such as paper and corruga	ated materials.			
	Reduce size and weight of packages to improve transportation fuel efficiency.					
	Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.					



Features

End-of-life Management and Recycling

HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Global Citizenship Report

http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html

Eco-label certifications

http://www8.hp.com/us/en/hp-information/environment/ecolabels.html

ISO 14001 certificates:

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K _Certificate.pdf

and

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf





HP EliteDesk 800 Tower G4 series

TP EUTEDESK 800 TOWE		he present of heing	cortified to the fo	llowing approvals and may	
& declarations	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:				
& declarations	• IT ECO declaration	se marks:			
	• US ENERGY STAR®				
		sited Ctates Cooktt	p.//www.opeat.nc	t for registration status in	
	• EPEAT® Gold registered in the Ur your country. Search keyword gen				
	accessories at http://www.hp.com		arty option Store	ioi solai generatoi	
System Configuration	The configuration used for the End	rgy Consumption of	nd Doctared Neice	Emissions data for the	
System Configuration	Desktop model is based on a Typio			ETHISSIONS data for the	
Energy Consumption	Desktop model is based on a Typic	ally configured Des	Ktop.		
(in accordance with US					
ENERGY STAR® test					
method)	115VAC, 60Hz	230VAC,	50Hz	100VAC, 60Hz	
Normal Operation	17.22 W	15.78		17.40 W	
(Short idle)		.50			
Normal Operation	16.51 W	15.22	W	16.42 W	
(Long idle)	19.5 / 11				
Sleep	1.38 W	1.36	N	1.39 W	
Off	0.77 W	0.79		0.78 W	
	NOTE: Energy efficiency data liste				
	model family. HP computers mark				
	applicable U.S. Environmental Pro				
	computers. If a model family does				
	efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency				
	power supply, and a Microsoft Wir			· -, · 3 · · · · · · · ·	
Heat Dissipation*	115VAC, 60Hz	230VAC,		100VAC, 60Hz	
Normal Operation (Short idle)	60 BTU/hr	54 BTU/hr		59 BTU/hr	
Normal Operation (Long idle)	56 BTU/hr	52 BTU	/hr	56 BTU/hr	
Sleep	5 BTU/hr	5 BTU/	J/hr 5 BTU/hr		
Off	3 BTU/hr	3 BTU/			
	NOTE: Heat dissipation is calculate	·			
	attained for one hour.		,	3	
Declared Noise	Sound Power		So	und Pressure	
Emissions	(L _{WAd} , bels)		(L,	DAm, decibels)	
(in accordance with	·				
ISO 7779 and ISO 9296)					
Typically Configured – Idle	3.3		24		
Fixed Disk – Random writes	3.3		23		
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:			ral years. Upgradeable	
	Spare parts are available through production.	out the warranty pe	iod and or for up t	to "5" years after the end of	
Batteries	This battery(s) in this product comply with EU Directive 2006/66/EC				
	Batteries used in the product do n	ot contain:			
Mercury greater the1ppm by weight					
	Cadmium groater than 2000m him	woight			
	Cadmium greater than 20ppm by	weight			



	Battery type: Lithium		
Additional Information	2011/65/EC. • This HP pro Directive – 2 • This product Water and To • This product See http://w party option • Plastics pace • This product • This product • This product	oduct is designed to comply with the Waste Electrical and E 002/96/EC. It is in compliance with California Proposition 65 (State of exic Enforcement Act of 1986). It is in compliance with the IEEE 1680 (EPEAT) standard at www.epeat.net for registration status by country. Search ke store for solar generator accessories at http://www.hp.co rts weighing over 25 grams used in the product are marked to contains 0% post-consumer recycled plastic (by wt.) to is 95.1% recycle-able when properly disposed of at end	Electronic Equipment (WEEE) California; Safe Drinking the <gold> level in the U.S. eyword generator on HP's 3rd om/go/options d per ISO11469 and ISO1043.</gold>
Packaging Materials	External:	PAPER/Corrugated	145 g
	Internal:	PLASTIC/EPE (Expanded Polyethylene)	288 g
		PLASTIC/Polyethylene low density	30 g
Material Usage			



Features

Packaging Usage	IID fellows the considering to the constant of
Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging:
	• Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
	• Eliminate 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 fuel efficiency.
	• Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management	HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To
and Recycling	recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest
	HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible
	manner.
	The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for
	each product type for use by treatment facilities. This information (product disassembly
	instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These
	instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM
	customers who integrate and re-sell HP equipment.
	Global Citizenship Report
	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
	Eco-label certifications
	http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates:
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K
	_Certificate.pdf
	and
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

HP EliteOne 800 G4 All-in-One Business PC

Eco-Label Certifications	This product has received or is in the process of being certified to the following approvals and may				
& declarations	be labeled with one or more of the	ese marks:			
	IT ECO declaration				
	• US ENERGY STAR®				
	• EPEAT® Gold registered in the Ur	nited States. See http://www.epeat	.net for registration status in		
	your country. Search keyword gen	erator on HP's 3rd party option sto	ore for solar generator		
	accessories at http://www.hp.com/go/options.				
System Configuration The configuration used for the Energy Consumption and Declared Noise Emissions data					
	Desktop model is based on a Typically Configured Desktop.				
Energy Consumption					
(in accordance with US					
ENERGY STAR® test					
method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz		
Normal Operation	21.004	22.242	21.606		
(Short idle)	21.984	22.242	21.696		
Normal Operation	11 251	11.604	11 222		
(Long idle)	11.351	11.604	11.222		
Sleep	4.108	4.119	3.988		
Off	0.734	0.747	0.693		
	NOTE: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the				
	model family. HP computers marked with the ENERGY STAR® Logo are compliant with the				



	applicable U.	S. Environmental Pro	otection Agency (EP/	A) ENERGY STAR®	specifications for	
					configurations, then energy	
					sk drive, a high efficiency	
		y, and a Microsoft Wi				
Heat Dissipation*	115	VAC, 60Hz	230VAC,	50Hz	100VAC, 50Hz	
Normal Operation (Short idle)	7	4.9654	75.84	52	73.9834	
Normal Operation (Long idle)	3	88.7069	39.56	96	38.267	
Sleep	1	4.0083	14.04	58	13.5991	
Off		2.5029	2.54	73	2.3631	
			ed based on the me	asured watts, ass	uming the service level is	
	attained for					
Declared Noise		Sound Power		S	ound Pressure	
Emissions		(Lwad, bels)		(I	_{-pAm} , decibels)	
(in accordance with						
ISO 7779 and ISO 9296)						
Typically Configured –		3.9			28	
Idle						
Fixed Disk – Random writes		4.4			33	
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:			eral years. Upgradeable		
	Spare parts a	are available through	out the warranty pe	riod and or for up	to "5" years after the end of	
Batteries		s) in this product cor	nply with EU Directiv	re 2006/66/EC		
	Batteries used in the product do not contain:					
	Mercury greater the1ppm by weight					
	Cadmium greater than 20ppm by weight					
	-	CR2032 (coin cell)				
	Battery type: Lithium					
Additional Information	• This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive -					
	2011/65/EC. • This HP product is designed to comply with the Waste Flostrical and Flostronic Equipment (WEEE)					
	• This 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 and Toxic Enforcement Act of 1986).					
	• This product is in compliance with the IEEE 1680 (EPEAT) standard at the <gold> level in the U.S.</gold>					
	See http://www.epeat.net for registration status by country. Search keyword generator on HP's 3rd					
	party option store for solar generator accessories at http://www.hp.com/go/options					
	• Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.					
	• This product contains 0% post-consumer recycled plastic (by wt.)					
	• This product is 95.1% recycle-able when properly disposed of at end of life.					
Packaging Materials	External:	PAPER/Corrugated		sposed of de cha		
	Internal:	PLASTIC/EPE (Exp	anded Polyethylene)		
		PLASTIC/Polyethy	lene low density			
Material Usage	This product			bstances in exces	s of regulatory limits (refer	
	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at					
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf):					
	• Asbestos					
	Certain Azo Colorants					



	Certain Brominated Flame Retardants – may not be used as flame retardants in plastics
	• Cadmium
	Chlorinated Hydrocarbons
	Chlorinated Paraffins
	• Formaldehyde
	Halogenated Diphenyl Methanes
	Lead carbonates and sulfates
	• Lead and Lead compounds
	Mercuric Oxide Batteries
	Nickel – finishes must not be used on the external surface designed to be frequently handled or
	carried by the user.
	Ozone Depleting Substances
	Polybrominated Biphenyls (PBBs)
	Polybrominated Biphenyl Ethers (PBBEs) Polybrominated Biphenyl Ethers (PBBEs)
	Polybrominated Biphenyl Oxides (PBBOs)
	Polychlorinated Biphenyl (PCB) Polychlorinated Toucheryle (PCT)
	Polychlorinated Terphenyls (PCT) Polychiad Chlorida (PNC) Polychiad Chlorida (PNC) Polychiad Chlorida (PNC)
	• Polyvinyl Chloride (PVC) — except for wires and cables, and certain retail packaging has been
	voluntarily removed from most applications. • Radioactive Substances
Dackaging Heage	• Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging:
	Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging
	materials.
	• Eliminate 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 fuel efficiency.
	Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management	HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To
and Recycling	recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest
	HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible
	manner.
	The FILMIEFE 1: 42: 4/2002/05/FC) as it was a feet as a
	The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly
	instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM
	customers who integrate and re-sell HP equipment.
	Global Citizenship Report
	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
	Eco-label certifications
	http://www8.hp.com/us/en/hp-information/environment/ecolabels.html
	ISO 14001 certificates:
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K
	_Certificate.pdf
	and
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf
	The second territorial and the second



HP EliteOne 800 G4 Touch All-in-One Business PC

Eco-Label Certifications	ICh All-in-One Business PC This product has received or is in t	he process of being	certified to the fo	ollowing approvals and mav	
& declarations	be labeled with one or more of the		,	J. P	
	IT ECO declaration				
	US ENERGY STAR®				
	• EPEAT® Gold registered in the Ur				
	your country. Search keyword gen		party option store	for solar generator	
	accessories at http://www.hp.com				
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the				
	Desktop model is based on a Typic	cally Configured De	sktop.		
Energy Consumption					
(in accordance with US ENERGY STAR® test					
method)	11EVAC 60U-	220000	ENU-	100VAC 60Hz	
Normal Operation	115VAC, 60Hz 21.98 W	230VAC , 22.2		100VAC, 60Hz 21.69 W	
(Short idle)					
Normal Operation (Long idle)	11.35 W 11.60 W 11.22				
Sleep	4.10 W	4.11		3.98 W	
Off	0.73 W	0.74		0.69 W	
	NOTE: Energy efficiency data liste				
	model family. HP computers mark				
	applicable U.S. Environmental Pro				
	computers. If a model family does				
	efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.				
U Dissipations				100045 500-	
Heat Dissipation*	115VAC, 60Hz	230VAC,		100VAC, 60Hz	
Normal Operation (Short idle)	75 BTU/hr	76 BT		74 BTU/hr	
Normal Operation (Long idle)	39 BTU/hr	40 BT	U/hr	38 BTU/hr	
Sleep	14 BTU/hr	14 BT			
Off	2 BTU/hr	2 BTU	U/hr 2 BTU/hr		
	NOTE: Heat dissipation is calculate attained for one hour.	ed based on the me	asured watts, ass	uming the service level is	
Declared Noise	Sound Power		Sc	ound Pressure	
Emissions	(L _{WAd} , bels)		(L	_{-pAm} , decibels)	
(in accordance with					
ISO 7779 and ISO 9296)					
Typically Configured — Idle	3.2		20		
Fixed Disk – Random writes	3.5		28		
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgrafeatures and/or components contained in the product may include:			eral years. Upgradeable	
			- , 2		
	Spare parts are available through production.	out the warranty pe	eriod and or for up	to "5" years after the end o	
Batteries	This battery(s) in this product comply with EU Directive 2006/66/EC				
	Batteries used in the product do not contain:				
	Mercury greater the1ppm by weight				
	Cadmium greater than 20ppm by weight				
	Battery size: CR2032 (coin cell)				





	Battery type:	: Lithium			
Additional Information	• This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.				
	• This HP pro Directive – 20	duct is designed to comply with the Waste Electri	cal and Electronic Equipment (WEEE)		
		ct is in compliance with California Proposition 65 (State of California: Safe Drinking		
		oxic Enforcement Act of 1986).	, , , , , , , , , , , , , , , , , , ,		
		t is in compliance with the IEEE 1680 (EPEAT) sta			
		ww.epeat.net for registration status by country. S store for solar generator accessories at http://wv			
		rts weighing over 25 grams used in the product ar			
	•	ct contains 0% post-consumer recycled plastic (by	•		
		t is 95.1% recycle-able when properly disposed c			
Packaging Materials	External:	PAPER/Corrugated	1419 g		
	Internal:	PLASTIC/EPE (Expanded Polyethylene)	694 g		
	-1: 1 .	PLASTIC/Polyethylene low density	94 g		
Material Usage		does not contain any of the following substances neral Specification for the Environment at	in excess of regulatory limits (refer		
		he.com/hpinfo/globalcitizenship/environment/pc	If/ase ndf):		
	• Asbestos	inpressing riparitory geodeticitizeristing, erivit offinierie, pe	,,, g5c.pai,,		
	Certain Azo Colorants				
	Certain Brominated Flame Retardants – may not be used as flame retardants in plastics				
	• Cadmium				
	Chlorinated Hydrocarbons Chlorinated Boyetting				
	Chlorinated Paraffins Formaldehyde				
	Formaldehyde Halogenated Diphenyl Methanes				
	Lead carbonates and sulfates				
	• Lead and Lead compounds				
	Mercuric Oxide Batteries				
	Nickel – finishes must not be used on the external surface designed to be frequently handled or				
	carried by the user.				
	Ozone Depleting SubstancesPolybrominated Biphenyls (PBBs)				
	Polybrominated Biphenyl Ethers (PBBEs)				
	Polybrominated Biphenyl Oxides (PBBOs)				
	Polychlorinated Biphenyl (PCB)				
	Polychlorinated Terphenyls (PCT)				
	Polyvinyl Chloride (PVC) — except for wires and cables, and certain retail packaging has been valuetarily removed from most applications.				
	voluntarily removed from most applications. • Radioactive Substances				
	Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)				
Packaging Usage		nese guidelines to decrease the environmental im			
	Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging				
	materials.				
	Eliminate 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 fuel efficiency.				
	Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.				



Features

End-of-life Management
and Recycling

HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Global Citizenship Report

http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html

Eco-label certifications

http://www8.hp.com/us/en/hp-information/environment/ecolabels.html

ISO 14001 certificates:

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K _Certificate.pdf

and

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

HP EliteOne 800 G4 GPU Touch All-in-One Business PC

Eco-Label Certifications	This product has received or is in the		following approvals and may			
& declarations		be labeled with one or more of these marks:				
	IT ECO declaration					
	• US ENERGY STAR®					
	• EPEAT® Gold registered in the Un	ited States. See http://www.epeat	net for registration status in			
	your country. Search keyword gene					
	accessories at http://www.hp.com	/go/options	_			
System Configuration	The configuration used for the Ene Notebook model is based on a Typi		ise Emissions data for the			
Energy Consumption (in accordance with US ENERGY STAR® test						
method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz			
Normal Operation (Short idle)	21.98 W	22.24W	21.69 W			
Normal Operation	11.35 W	11.35 W 11.60 W 11.22W				
(Long idle)						
Sleep	4.10 W	4.11 W	3.98 W			
Off	0.73 W	0.74 W	0.69 W			
	NOTE: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the					
	model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for					
	computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency					
			aisk arive, a nigh emiciency			
Heat Dissipation*	power supply, and a Microsoft Win	230VAC, 50Hz	100VAC, 60Hz			
Normal Operation	75 BTU/hr	76 BTU/hr	74 BTU/hr			
(Short idle)			·			
Normal Operation (Long idle)	39 BTU/hr	40 BTU/hr	38 BTU/hr			
Sleep	14 BTU/hr	14 BTU/hr	13 BTU/hr			
Off	2 BTU/hr	2 BTU/hr	2 BTU/hr			
<u></u>	NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is					
	attained for one hour.	a basea on the measurea watts, a	southing the service level is			
	attained for one flour.					



Declared Noise		Sound Power	Sc	ound Pressure
Emissions		(L _{wAd} , bels)		_{pAm} , decibels)
(in accordance with		(-Whu) 5 c.5/	,-	pain, accidency
ISO 7779 and ISO 9296)				
Typically Configured –	3.2		20	
Idle Fixed Disk – Random		3.5		28
writes		3.3		20
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:			ral years. Upgradeable
	Spare parts a production.	pare parts are available throughout the warranty period and or for up to "5" years after the encroduction.		
Batteries	This battery(s) in this product comply with EU Dire	ctive 2006/66/EC	
	Mercury grea	ed in the product do not contain: hter the1ppm by weight eater than 20ppm by weight		
	Battery size: Battery type:	CR2032 (coin cell)		
Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This 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 and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the <gold> level in the U.S. See http://www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at http://www.hp.com/go/options</gold> Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product contains 0% post-consumer recycled plastic (by wt.) 			
		t is 95.1% recycle-able when properl	y disposed of at end o	
Packaging Materials	External:	PAPER/Corrugated		1419 g
	Internal:	PLASTIC/EPE (Expanded Polyethyle	ene)	694 g
		PLASTIC/Polyethylene low density		94 q
Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf): Asbestos Certain Azo Colorants Certain Brominated Flame Retardants – may not be used as flame retardants in plastics Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins Formaldehyde Halogenated Diphenyl Methanes Lead carbonates and sulfates Lead and Lead compounds Mercuric Oxide Batteries Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user. Ozone Depleting Substances Polybrominated Biphenyls (PBBs)			f): ardants in plastics
	Polybrominated Biphenyl Ethers (PBBEs)			



	 Polybrominated Biphenyl Oxides (PBBOs) Polychlorinated Biphenyl (PCB) Polychlorinated Terphenyls (PCT) Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications. Radioactive Substances
	Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging: • Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. • Eliminate 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 fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management and Recycling	HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.
	The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment. Global Citizenship Report
	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
	Eco-label certifications
	http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates:
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K _Certificate.pdf
	and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf



HP EliteOne 800 G4 Non-Touch All-in-One Business PC

Eco-Label Certifications	This product has received or is in t		certified to the fo	ollowing approvals and may	
& declarations	be labeled with one or more of these marks: • IT ECO declaration				
	• US ENERGY STAR®				
	• EPEAT® Gold registered in the Ur	nited States. See htt	tp://www.epeat.n	et for registration status in	
	your country. Search keyword ger		party option store	e for solar generator	
	accessories at http://www.hp.com	n/go/options.			
System Configuration	The configuration used for the En			e Emissions data for the	
	Notebook model is based on a Typ	oically Configured N	otebook.		
Energy Consumption					
(in accordance with US					
ENERGY STAR® test	11 FUAC COU-	2201/46	FOUL-	100006 600-	
method)	115VAC, 60Hz	230VAC,		100VAC, 60Hz	
Normal Operation (Short idle)	21.98 W	22.2		21.69 W	
Normal Operation (Long idle)	11.35 W	11.60		11.22W	
Sleep	4.10 W	4.11		3.98 W	
Off	0.73 W	0.74		0.69 W	
	NOTE: Energy efficiency data liste				
	model family. HP computers mark				
	applicable U.S. Environmental Pro				
	computers. If a model family does				
	efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency				
	power supply, and a Microsoft Wir			400000 000	
Heat Dissipation*	115VAC, 60Hz	230VAC,		100VAC, 60Hz	
Normal Operation (Short idle)	75 BTU/hr 76 BTU/hr			74 BTU/hr	
Normal Operation (Long idle)	39 BTU/hr	40 BT	U/hr	38 BTU/hr	
Sleep	14 BTU/hr	14 BT	U/hr	13 BTU/hr	
Off	2 BTU/hr	2 BTU	I/hr	2 BTU/hr	
	NOTE: Heat dissipation is calculate attained for one hour.	ed based on the me	asured watts, ass	uming the service level is	
Declared Noise	Sound Power		S	ound Pressure	
Emissions	(L _{WAd} , bels)		(1	L _{pAm} , decibels)	
(in accordance with					
ISO 7779 and ISO 9296)					
Typically Configured — Idle	3.2			20	
Fixed Disk – Random writes	3.5			28	
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:				
	Spare parts are available through production.	out the warranty pe	riod and or for up	to "5" years after the end of	
Batteries	This battery(s) in this product com	ply with EU Directiv	ve 2006/66/EC		
	Batteries used in the product do n	ot contain:			
	Mercury greater the1ppm by weight Cadmium greater than 20ppm by weight				
	Cadmiding greater than 20ppin by	weight			
	Battery size: CR2032 (coin cell)				





	Battery type:	Lithium		
Additional Information	This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE)			
	• This HP pro Directive – 20		at and Electronic Equipment (WEEE)	
		t is in compliance with California Proposition 65 (S	state of California; Safe Drinking	
	Water and To	oxic Enforcement Act of 1986).	_	
		t is in compliance with the IEEE 1680 (EPEAT) stan		
		ww.epeat.net for registration status by country. So store for solar generator accessories at http://ww		
		ts weighing over 25 grams used in the product are		
	• This produc	t contains 0% post-consumer recycled plastic (by	wt.)	
		t is 95.1% recycle-able when properly disposed of		
Packaging Materials	External:	PAPER/Corrugated	1419 g	
	Internal:	PLASTIC/EPE (Expanded Polyethylene)	694 g	
	T 1.1	PLASTIC/Polyethylene low density	94 g	
Material Usage		does not contain any of the following substances in neral Specification for the Environment at	in excess of regulatory limits (refer	
		np.com/hpinfo/globalcitizenship/environment/pdf	f/ase ndf):	
	• Asbestos	ipiconi, ripini o, grobutcitizenomp, environment, pui	,, 55c. pa.,.	
	• Certain Azo Colorants			
	Certain Brominated Flame Retardants – may not be used as flame retardants in plastics			
	• Cadmium			
	Chlorinated Hydrocarbons Chlorinated Paraffina			
	Chlorinated Paraffins Formaldehyde			
	Halogenated Diphenyl Methanes			
	Lead carbonates and sulfates			
	• Lead and Lead compounds			
	Mercuric Oxide Batteries			
	Nickel – finishes must not be used on the external surface designed to be frequently handled or			
	carried by the user.			
	Ozone Depleting Substances Polybrominated Riphenyls (PRRs)			
	Polybrominated Biphenyls (PBBs)Polybrominated Biphenyl Ethers (PBBEs)			
	Polybrominated Biphenyl Oxides (PBBOs)			
	Polychlorinated Biphenyl (PCB)			
	Polychlorinated Terphenyls (PCT)			
	Polyvinyl Chloride (PVC) — except for wires and cables, and certain retail packaging has been			
	voluntarily removed from most applications.			
	Radioactive Substances Tributul Tip (TRT) Tributul Tip Ovide (TRTO)			
Packaging Usage	Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO) HP follows these guidelines to decrease the environmental impact of product packaging:			
	HP follows these guidelines to decrease the environmental impact of product packaging:			
	Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.			
	• Eliminate 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.			
	 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 fuel efficiency.			
	Reduce Size and weight of packages to improve transportation rule emiciency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.			





End-of-life Management and Recycling	HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.
	The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.
	Global Citizenship Report
	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
	Eco-label certifications
	http://www8.hp.com/us/en/hp-information/environment/ecolabels.html
	ISO 14001 certificates:
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K _Certificate.pdf
	and

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

HP EliteOne 800 G4 GPU Non-Touch All-in-One Business PC

Eco-Label Certifications	This product has received or is in the process of being certified to the following approvals and	
k declarations	may be labeled with one or more of these marks:	
	• IT ECO declaration	
	• US ENERGY STAR®	
	• EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country. Search keyword generator on HP's 3rd party option store for solar generator accessories at http://www.hp.com/go/options .	
ystem Configuration	accessines at maping with interesting gog options.	1
	The configuration used for the Energy Consumption and Declared Noise Emissions data for the	
	Notebook model is based on a Typically Configured Notebook.	



Features	
	e Energy Consumption and Dec
	la red Noise E fissions data



Features	
Features	for the Notebook model is based?
	ona" Typi call yConfigure



Energy Consumption (in accordance with US ENERGY STAR® test				
method)	115VAC, 60Hz	230VAC, 50	1 7	100VAC, 60Hz
Normal Operation (Short idle)	21.98 W	22.24W		21.69 W
Normal Operation (Long idle)	11.35 W	11.60 W		11.22W
Sleep	4.10 W	4.11 W		3.98 W
Off	0.73 W	0.74 W		0.69 W
	the model family. HP computers applicable U.S. Environmental Pr computers. If a model family doe energy efficiency data listed is fo efficiency power supply, and a Mi	otection Agency (EPA) s not offer ENERGY ST r a typically configure crosoft Windows® ope	ENERGY STA AR® complia d PC featurir rating syste	AR® specifications for ant configurations, then and disk drive, a high am.
Heat Dissipation*	115VAC, 60Hz	230VAC, 50		100VAC, 60Hz
Normal Operation (Short idle)	75 BTU/hr	76 BTU/hı		74 BTU/hr
Normal Operation (Long idle)	39 BTU/hr	40 BTU/h	ſ	38 BTU/hr
Sleep	14 BTU/hr	14 BTU/h		13 BTU/hr
Off	2 BTU/hr NOTE: Heat dissipation is calcula attained for one hour.	2 BTU/hr ted based on the meas	ured watts,	2 BTU/hr assuming the service level is
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L _{WAd} , bels) Sound Pressure (L _{pAm} , decibels)			
Typically Configured – Idle	3.2			
Fixed Disk – Random writes	3.5			
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: Spare parts are available throughout the warranty period and or for up to "5" years after the			
Batteries	end of production. This battery(s) in this product cor	mply with ELL Directive	2006/66/50	
חמנובוובי	This value y(s) in this product cor	ייףנץ שונוו בט טוופננועפ	2000/00/EC	-





	T					
	Pattorios us	ad in the product do not contain:				
		ed in the product do not contain:				
	Mercury greater the 1 ppm by weight					
	Cadmium greater than 20ppm by weight					
	Pattory cizo:	CD2022 (coin coll)				
	Battery type	CR2032 (coin cell)				
Additional Information		. Lithium ct is in compliance with the Restrictions of Hazardous S	ubstances (DoUS) directive			
Additional information	2011/65/EC		ubstances (Rons) unective -			
			nd Flactronic Equipment			
		duct is designed to comply with the Waste Electrical antive – 2002/96/EC.	ia Electronic Equipment			
			of California, Cafe Drinking			
		ct is in compliance with California Proposition 65 (State oxic Enforcement Act of 1986).	or California; Safe Drinking			
		- · · · · · · · · · · · · · · · · · · ·	lat the egolds lovel in the			
		ct is in compliance with the IEEE 1680 (EPEAT) standard ://www.epeat.net for registration status by country. S				
		ty option store for solar generator accessories at http:/				
		rts weighing over 25 grams used in the product are ma				
	ISO1043.	its weighing over 25 grains used in the product are ma	rkeu per 130 i 1469 anu			
		ct contains 0% post-consumer recycled plastic (by wt.)				
		ct is 95.1% recycle-able when properly disposed of at e				
Packaging Materials	External:	PAPER/Corrugated	1419 g			
rackaging materiats			14199			
	Internal:	PLASTIC/EPE (Expanded Polyethylene)	694 g			
		PLASTIC/Polyethylene low density	94 q			
Material Usage	This product	does not contain any of the following substances in ex	cess of regulatory limits			
-	(refer to the HP General Specification for the Environment at					
		hp.com/hpinfo/globalcitizenship/environment/pdf/gse	e.pdf):			
	 Asbestos 		•			
	Certain Azo	Colorants				
	Certain Bro	minated Flame Retardants – may not be used as flame	retardants in plastics			
	• Cadmium	·	·			
	 Chlorinated 	d Hydrocarbons				
	 Chlorinated 	d Paraffins				
	 Formaldeh 					
	Halogenate	ed Diphenyl Methanes				
		nates and sulfates				
	• Lead and L	ead compounds				
		kide Batteries				
		ishes must not be used on the external surface design	ed to be frequently handled			
	or carried by					
	Ozone Depleting Substances					
	Polybrominated Biphenyls (PBBs)					
	Polybrominated Biphenyl Ethers (PBBEs)					
	Polybrominated Biphenyl Oxides (PBBOs)					
		nated Biphenyl (PCB)				
	Polychlorinated Terphenyls (PCT)					
		hloride (PVC) – except for wires and cables, and certain	retail packaging has been			
	voluntarily removed from most applications.					
	Radioactive Substances					
	• Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)					





Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging:				
	• Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging				
	materials.				
	• Eliminate 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 fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards. 				
End-of-life Management and Recycling	HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.				
	The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment. Global Citizenship Report				
	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html				
	Eco-label certifications				
	http://www8.hp.com/us/en/hp-information/environment/ecolabels.html				
	ISO 14001 certificates:				
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_				
	14K_Certificate.pdf				
	and				
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf				

HP FliteDeck 800 G4 65W Deckton Mini Rusiness PC

Eco-Label Certifications	This product has received or is in the process of being certified to the following approvals and may be			
& declarations	labeled with one or more of these marks:			
& dectarations	IT ECO declaration	ilaiks.		
	US ENERGY STAR®			
	 EPEAT[□] Gold registered in 	the United States. See http://www	w.epeat.net for registration	
	status in your country.			
System Configuration	The configuration used for the Ene	rgy Consumption and Declared No	oise Emissions data for the	
-	Notebook model is based on a "Typically Configured Notebook.			
Energy Consumption	1	, ,		
(in accordance with US				
ENERGY STAR® test				
method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz	
Normal Operation	3.59 W	3.64 W	3.46 W	
(Short idle)				
Normal Operation	3.11 W	3.14 W	3.04 W	
(Long idle)				
Sleep	0.63 W	0.67 W	0.63 W	
Off	0.60 W	0.64 W	0.59 W	
	Note:			
	Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model			
	family . HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S.			
	Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model			
	Environmental Protection Agency (EPA) ENERGY STAR® specification	s for computers. If a model	

	family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.				
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz		
Normal Operation (Short idle)	12 BTU/hr 12 BTU/hr		12 BTU/hr		
Normal Operation (Long idle)	11 BTU/hr 11 BTU/hr 10		10 BTU/hr		
Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr		
Off	2 BTU/hr	2 BTU/hr	2 BTU/hr		
	*NOTE: Heat dissipation is calculate attained for one hour.	ed based on the measured watt			
Declared Noise	Sound Power		Sound Pressure		
Emissions	(L _{WAd} , bels)		(L _{pAm} , decibels)		
(in accordance with ISO 7779 and ISO 9296)					
Typically Configured – Idle	3.1		19		
Fixed Disk – Random writes	3.1		19		
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: 3 USB ports 1 PC card slot (type I/II) 1 ExpressCard/54 slot 1 IEEE 1394 Port 2 SODIMM memory slots Optional expansion base docking station 1 multi-bay II storage port Interchangeable HDD Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.				
Batteries	This battery(s) in this product comp Batteries used in the product do no Mercury greater the1ppm by w Cadmium greater than 20ppm Battery size: CR2032 (coin cell) Battery type: Lithium	t contain: eight	EC		



Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) direction - 2011/65/EC. This 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 and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT□) standard at the gold level, see www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product contains 24.1% post-consumer recycled plastic (by wt.) This product is 91.7% recycle-able when properly disposed of at end of life. 			
Packaging Materials	External:	PAPER/Corrugated	322 g	
	Internal:	PLASTIC/Polyethylene Expanded - EPE	32 g	
	The Plastic			
	The paper p	ackaging materials contains at least 25% recycled co	ntent.	
	PLASTIC/Polyethylene High density - HDPE The Plastic packaging material is made from 0% recycled content. The paper packaging materials contains at least 25% recycled content. This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf): Asbestos Certain Azo Colorants Certain Brominated Flame Retardants – may not be used as flame retardants in plastics Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins Formaldehyde Halogenated Diphenyl Methanes Lead carbonates and sulfates Lead and Lead compounds Mercuric Oxide Batteries Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user. Ozone Depleting Substances Polybrominated Biphenyl (PBBs) Polybrominated Biphenyl Ethers (PBBEs) Polybrominated Biphenyl Ethers (PBBEs) Polybrominated Biphenyl (PCB) Polychlorinated Terphenyls (PCT) Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.			



Packaging Usage	 HP follows these guidelines to decrease the environmental impact of product packaging: Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. Eliminate 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 fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management and Recycling	Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.
HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates: http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_IS 0_14K_Certificate.pdf and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf





	/ Desktop Mini Business PC		faller des sesses all and the	
This product has received or is in the process of being certified to the following approvals and m				
& declarations	labeled with one or more of these n	narks:		
	IT ECO declaration			
	US ENERGY STAR®			
	_	the United States. See http://www	v.epeat.net for registration	
	status in your country.			
System Configuration	The configuration used for the Ener		ise Emissions data for the	
	Notebook model is based on a "Typ	ically Configured Notebook.	1	
Energy Consumption				
(in accordance with US				
ENERGY STAR® test	11EVAC 60H-	22004 504-	100005 600-	
method)	115VAC, 60Hz 3.59 W	230VAC, 50Hz	100VAC, 60Hz	
Normal Operation (Short idle)	3.59 W	3.64 W	3.46 W	
Normal Operation	3.11 W	3.14 W	3.04 W	
(Long idle)	3.11 W	3.14 W	3.04 W	
Sleep	0.63 W	0.67 W	0.63 W	
Off	0.60 W	0.67 W	0.59 W	
JII	0.80 W	0.84 W	0.55 W	
	for a typically configured PC featuri Microsoft Windows® operating syst	em.		
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz	
Normal Operation (Short idle)	12 BTU/hr	12 BTU/hr	12 BTU/hr	
Normal Operation	11 BTU/hr	11 BTU/hr	10 BTU/hr	
(Long idle)				
Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr	
Off	2 BTU/hr	2 BTU/hr	2 BTU/hr	
	*NOTE: Heat dissipation is calculate attained for one hour.	ed based on the measured watts, a	assuming the service level is	
Declared Noise	Sound Power		Sound Pressure	
Emissions	(L _{WAd} , bels)		(L _{pAm} , decibels)	
(in accordance with ISO 7779 and ISO 9296)				
Typically Configured — Idle	2.9		19	
Fixed Disk – Random writes	2.9		19	
Longevity and Upgrading	This product can be upgraded, poss features and/or components contai • 3 USB ports • 1 PC card slot (type I/II) • 1 ExpressCard/54 slot • 1 IEEE 1394 Port • 2 SODIMM memory slots		veral years. Upgradeable	





	• 1 multi-bay II storage port • Interchangeable HDD				
	Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.				
Batteries		s) in this product comply with EU Directive 2006/66/EC			
	Mercury Cadmiun	d in the product do not contain: greater the1ppm by weight n greater than 20ppm by weight CR2032 (coin cell) Lithium			
Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This 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 and Toxic Enforcement Act of 1986). 				
	 This product is in compliance with the IEEE 1680 (EPEAT[□]) standard at the gold level, see www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product contains 24.1% post-consumer recycled plastic (by wt.) This product is 91.7% recycle-able when properly disposed of at end of life. 				
Packaging Materials	External:	PAPER/Corrugated	322 g		
	Internal:	PLASTIC/Polyethylene Expanded - EPE	32 g		
		PLASTIC/Polyethylene High density - HDPE	5 g		
	The Plastic packaging material is made from 0% recycled content.				
Material Usage	The paper packaging materials contains at least 25% recycled content. This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf):				
	 Cert Cert Cad Chlo Forr Halo Lead Mert Nick han Ozo Poly Poly 	estos ain Azo Colorants ain Brominated Flame Retardants — may not be used as f mium rinated Hydrocarbons rinated Paraffins naldehyde ogenated Diphenyl Methanes d carbonates and sulfates d and Lead compounds curic Oxide Batteries el — finishes must not be used on the external surface de dled or carried by the user. ne Depleting Substances rbrominated Biphenyls (PBBs) rbrominated Biphenyl Ethers (PBBEs)			



	 Polychlorinated Biphenyl (PCB) Polychlorinated Terphenyls (PCT) Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications. Radioactive Substances Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
Packaging Usage	 HP follows these guidelines to decrease the environmental impact of product packaging: Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. Eliminate the use of ozone-depleting substances (0DS) 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 fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management and Recycling	Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers . These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.
HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates: http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_IS 0_14K_Certificate.pdf and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf





HP EliteDesk	800 G4 95W	Desktop	Mini Business F	C
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Eco-Label Certifications & declarations	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:			
	IT ECO declaration			
	US ENERGY STAR®			
	_	he United States. See http://www	epeat.net for registration	
System Configuration	status in your country.	ay Consumption and Doclared No.	ico Emissions data for the	
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook.			
Energy Consumption (in accordance with US ENERGY STAR® test				
method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz	
Normal Operation (Short idle)	3.59 W	3.64 W	3.46 W	
Normal Operation (Long idle)	3.11 W	3.14 W	3.04 W	
Sleep	0.63 W	0.67 W	0.63 W	
Off	0.60 W	0.64 W	0.59 W	
Heat Dissipation*	Microsoft Windows® operating system 115VAC, 60Hz	em. 230VAC, 50Hz	100VAC, 60Hz	
Normal Operation	12 BTU/hr	12 BTU/hr	12 BTU/hr	
(Short idle)	12 810/111	12 81 0/111	12 010/111	
Normal Operation (Long idle)	11 BTU/hr	11 BTU/hr	10 BTU/hr	
Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr	
Off	2 BTU/hr	2 BTU/hr	2 BTU/hr	
	*NOTE: Heat dissipation is calculate attained for one hour.	d based on the measured watts, a	ssuming the service level is	
Declared Noise	Sound Power		Sound Pressure	
Emissions (in accordance with	Sound Power (L _{WAd} , bels)		Sound Pressure (L _{pAm} , decibels)	
Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured –				
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random writes	(L _{WAd} , bels)		(L _{pAm} , decibels)	





	• 1 multi-bay II storage port • Interchangeable HDD				
	Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.				
Batteries		s) in this product comply with EU Directive 2006/66/EC			
	Mercury Cadmiun	d in the product do not contain: greater the1ppm by weight n greater than 20ppm by weight CR2032 (coin cell) Lithium			
Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This 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 and Toxic Enforcement Act of 1986). 				
	 This product is in compliance with the IEEE 1680 (EPEAT[□]) standard at the gold level, see www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product contains 24.1% post-consumer recycled plastic (by wt.) This product is 91.7% recycle-able when properly disposed of at end of life. 				
Packaging Materials	External:	PAPER/Corrugated	322 g		
	Internal:	PLASTIC/Polyethylene Expanded - EPE	32 g		
		PLASTIC/Polyethylene High density - HDPE	5 g		
	The Plastic packaging material is made from 0% recycled content.				
Material Usage	The paper packaging materials contains at least 25% recycled content. This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf):				
	 Cert Cert Cad Chlo Forr Halo Lead Mert Nick han Ozo Poly Poly 	estos ain Azo Colorants ain Brominated Flame Retardants — may not be used as f mium rinated Hydrocarbons rinated Paraffins naldehyde ogenated Diphenyl Methanes d carbonates and sulfates d and Lead compounds curic Oxide Batteries el — finishes must not be used on the external surface de dled or carried by the user. ne Depleting Substances rbrominated Biphenyls (PBBs) rbrominated Biphenyl Ethers (PBBEs)			



	 Polychlorinated Biphenyl (PCB) Polychlorinated Terphenyls (PCT) Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications. Radioactive Substances Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO) 	
Packaging Usage	 HP follows these guidelines to decrease the environmental impact of product packaging: Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. Eliminate the use of ozone-depleting substances (0DS) 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 fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards. 	
End-of-life Management and Recycling	Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers . These instructions may be used by recyclers and other WEEE treatment facilities as well as HP 0EM customers who integrate and re-sell HP equipment.	
HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates: http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_IS 0_14K_Certificate.pdf and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf	





SERVICE AND SUPPORT

HP EliteDesk 800 G4 Tower Business PC

On-site Warranty¹⁵: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day¹⁶ service for parts and labor and includes free support 24 x 7¹⁷. Three-year onsite and labor are not available in all countries. Service offers terms up to 5 years by choosing an optional HP Care Pack. To choose the right level of service for your HP product, visit HP Care Pack Central: http://www.hp.com/go/cpc.¹⁸

- 15. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.

 16. On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.
- 17. Technical telephone support applies only to HP-configured and third-party HP qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.
- 18. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

HP EliteDesk 800 G4 Small Form Factor Business PC

On-site Warranty¹⁵: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day¹⁶ service for parts and labor and includes free support 24 x 7¹⁷. Three-year onsite and labor are not available in all countries. Service offers terms up to 5 years by choosing an optional HP Care Pack. To choose the right level of service for your HP product, visit HP Care Pack Central: http://www.hp.com/go/cpc.¹⁸

- 15. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.
- 16. On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.
- 17. Technical telephone support applies only to HP-configured and third-party HP qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.
- 18. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.





HP EliteDesk 800 G4 Desktop Mini Business PC

On-site Warranty¹⁵: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day¹⁶ service for parts and labor and includes free support 24 x 7¹⁷. Three-year onsite and labor are not available in all countries. Service offers terms up to 5 years by choosing an optional HP Care Pack. To choose the right level of service for your HP product, visit HP Care Pack Central: http://www.hp.com/go/cpc.¹⁸

- 15. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.

 16. On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.
- 17. Technical telephone support applies only to HP-configured and third-party HP qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.
- 18. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

HP EliteOne 800 G4 All-in-One Business PC

On-site Warranty¹⁵: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day¹⁶ service for parts and labor and includes free support 24 x 7¹⁷. Three-year onsite and labor are not available in all countries. Service offers terms up to 5 years by choosing an optional HP Care Pack. To choose the right level of service for your HP product, visit HP Care Pack Central: http://www.hp.com/go/cpc.¹⁸

- 15. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.
- 16. On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider, and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.
- 17. Technical telephone support applies only to HP-configured and third-party HP qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.
- 18. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.





CERTIFICATION AND COMPLIANCE

Energy Efficiency Compliance

ENERGY STAR® certified; EPEAT® Gold 19

19. EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at http://www.hp.com/go/options.

PROCESSORS

Intel® 8th Generation Core™ Processors

All HP EliteDesk 800 G4 Business PC models featuring this technology include processors that are part of the Intel® Stable Image Platform Program (SIPP) designed to ensure the stability promise inherent in the value proposition of the HP EliteDesk and EliteOne 800 G4 Business PC.

Intel® Advanced Management Technology (AMT) v12 – An advanced set of remote management features and functionality which provides network administrators the latest and most effective tools to remotely discover, heal, and protect networked client systems regardless of the system's health or power state. AMT 12 includes the following advanced management functions:

- Support for configuration of Intel AMT 12.0 new capabilities
- No reset after provisioning
- Support changes to BIOS table 130
- Support for Microsoft Windows Server 2012 R2
- Support for New Microsoft SQL Server Versions including Standard and Enterprise editions
- Support for Intel SSD Prop 2500 Series
- Support for Intel Enterprise Digital Fence
- The Platform Discovery Utility can now discover these additional Intel products:
- Intel SSD Pro 2500 Series; Enterprise Digital Fence
- Intel Identity Protection Technology with One Time Password; Public Key Infrastructure; Multi Factor Authentication
- Intel Identity Protection Technology with Intel WiGig
- New Profile Editor and Profile Editor Plugin Interface
- New Required Permissions for Solutions Framework





DISPLAY PANEL SPECIFICATIONS

23.8" diagonal IPS widescreen WLED backlit anti-glare LCD (1920 x 1080) non-touch or optional touch

Projected Capacitive Touch supports up to 10 touch-points

TypeIPS WLED Backlit LCDActive area (mm)527.04 x 296.46Native Resolution (HxV)1920 x 1080

Aspect ratio 16:09

Pivel pitch (HyV)(mm) 0.2741

 Pixel pitch (HxV)(mm)
 0.2745 x 0.2745

 Contrast ratio (typical)
 1000:01:00

 Brightness (typical)
 250nits

Viewing angle (typical) (HxV) 250nits (cd/m²) (FHD)

Backlight lamp life (to half 178° x 178°

brightness)

Color support30,000 hours minimumColor gamut (typical)Over 16 million colors (FHD)

Anti-glare 72%

Default color temperature Yes*

Default color temperature Warm (6500K)

Intel® HD Graphics (integrated)

Adjustable Height Stand:	Height - Vertical/Landscape Adjustment	101mm (±2 mm)
	Portrait Adjustment	54mm (±2 mm)
	Tilt Angle	-5° to +20° (±3°) in landscape and portrait
	Rotation (Swivel)	90° (±1°)
	Pivot	Clockwise 90°
Recline Stand:	Height - Vertical Adjustment	178 mm (±2 mm)
	Tilt Angle	-5° to +65° (+/-3°)
	Rotation (swivel)	360° swivel

GRAPHICS

HP EliteDesk 800 G4 Desktop Mini Business PC

Intel® HD Graphics (integrated)	
VGA Controller	Integrated
DisplayPort™ 1.2	Multimode capable; supports HDCP, Display Port Audio (2 streams), HBR2 link rates and Multi- Stream Technology for a maximum of 3 displays connected to any output controlled by Intel® Graphics
HDMI (optional)	Supports HDMI 2.0a features Supports HDCP 2.2 Supports audio over HDMI
VGA (optional)	VGA output



^{1.} All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

^{2.} For All in One only

Technical Specifications

USB-C™ DP Alt Mode (optional)	DisplayPort over the optional USB-C™ module
Memory	The actual amount of maximum graphics memory can be >4GB. System memory is allocated for graphics as needed using Intel's Dynamic Video Memory Technology (DVMT), to provide an optimal balance between graphics and system memory use.
Maximum Color Depth	up to 10 bits/color
Graphics/Video API Support	HEVC 10b Enc/Dec HW VP9 10b Dec HW HDR Rec. 2020 DX12





HP EliteDesk 800 G4 Tower Business PC

Intel® UHD Graphics (integrate	d)
VGA Controller	Integrated
DisplayPort™ 1.2	Multimode capable; supports HDCP, Display Port Audio (2 streams), HBR2 link rates and Multi- Stream Technology for a maximum of 3 displays connected to any output controlled by Intel® Graphics
HDMI (optional)	Supports HDMI 2.0a features Supports HDCP 2.2 Supports BT2020 and HDR playback (7th Gen processors only)
VGA (optional)	VGA ouput
USB-C™ DP Alt Mode (optional)	DisplayPort over the optional USB-C™ module
Memory	The actual amount of maximum graphics memory can be >4GB. System memory is allocated for graphics as needed using Intel's Dynamic Video Memory Technology (DVMT), to provide an optimal balance between graphics and system memory use.
Maximum Color Depth	up to 10 bits/color
Graphics/Video API Support	HEVC 10b Enc/Dec HW VP9 10b Dec HW HDR Rec. 2020 DX12
34" UHD Supported Resolutions and Refresh Rates. Other resolutions may also work.	640x480 60 Hz640x480 67Hz 640x480 72Hz 640x480 75Hz 720x400 70Hz 800x600 60Hz 800x600 75Hz 1024x768 60Hz 1024x768 75Hz 1280x960 60Hz 1280x720 60Hz 1280x1024 60Hz 1280x1024 75Hz 1440x900 60Hz 1440x900 75Hz 1680x1050 60Hz 1490x1080 60Hz 1340x1440 60Hz





NVIDIA® GeForce® GTX 1060 3 GB Graphics Card

 Engine Clock
 1506 MHz

 Memory Clock
 4004 MHz

 Memory Size(width)
 3 GB(192-bit)

 Memory Type
 128M x 32 GDDR5

 Max. Resolution(DVI)
 2560x1600@60Hz

 Max. Resolution(HDMI)
 4096x2160@60Hz

 Max. Resolution(DP)
 5120x3200@60Hz

Multi Display Support 4 displays

HDCP Compliance Yes

Rear I/O connectors(bracket) DVI-D+HDMI+DPx3

Cooling(active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption(W) <120W

PCB form-factor with bracket ATX (Full height) PCB with ATX dual slot bracket

AMD® Radeon™ RX550 4 GB FH PCIe x16

Engine Clock1183MHzMemory Clock7 GbpsMemory Size(width)4 GB(128-bit)Memory TypeGDDR5

 Max. Resolution(HDMI)
 4096x2160 @ 60Hz

 Max. Resolution(DP)
 5120x2880 @ 60Hz

Multi Display Support 3 displays

HDCP Compliance Yes

Rear I/O connectors(bracket) HDMI, DPx2

Cooling(active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption(W) <62W

PCB form-factor with bracket ATX (Full height) PCB with ATX single slot bracket

AMD® Radeon™ RX580 4 GB FH PCIe x16

Engine Clock 1266 MHz

Memory Clock 8gbs

 Memory Size(width)
 4 GB (256-bit)

 Memory Type
 128M x 32 GDDR5

 Max. Resolution(HDMI)
 4096x2160@60Hz

 Max. Resolution(DP)
 5120x3200@60Hz

Multi Display Support 4 displays

HDCP Compliance Yes

Rear I/O connectors(bracket) DP*3 + HDMI

Cooling(active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption(W) <150W

PCB form-factor with bracket ATX (Full height) PCB with ATX dual slot bracket





NVIDIA® Quadro P400 2GB Graphics Card

 Engine Clock
 1252 MHz

 Memory Clock
 2000 MHz

 Memory Size(width)
 2GB (64-bit)

 Memory Type
 256M x 32 GDDR5

 Max. Resolution(DP)
 5120x32880@60Hz

Multi Display Support 3 displays
HDCP Compliance Yes
Rear I/O connectors(bracket) mDPx3

Cooling(active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption(W) <30W

PCB form-factor with bracket LP PCB with LP bracket

AMD® Radeon™ R7 430 2GB VGA+DP Graphics Card

Engine Clock 780 MHz

Memory Clock 1100 MHz

Memory Size(width) 2 GB(128-bit)

Memory Type 128M x 32 GDDR5

Max. Resolution(HDMI) 2048x1536

Max. Resolution(DP) 4096x2160@60Hz

Multi Display Support2 displaysHDCP ComplianceYesRear I/O connectors(bracket)VGA+DP

Cooling(active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption(W) <50W

PCB form-factor with bracket LP PCB with FH/LP bracket

AMD® Radeon™ R7 430 2GB 2DP Graphics Card

Engine Clock 780 MHz

Memory Clock 1100 MHz

Memory Size(width) 2 GB(128-bit)

Memory Type 128M x 32 GDDR5

Max. Resolution(DP) 4096x2160@60Hz

Multi Display Support 2 displays
HDCP Compliance Yes
Rear I/O connectors(bracket) 2DP

Cooling(active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption(W) <50W

PCB form-factor with bracket LP PCB with FH/LP bracket





HP EliteDesk 800 G4 Small Form Factor Business PC

Intel® HD Graphics (integrated)	
VGA Controller	Integrated
DisplayPort™ 1.2	Multimode capable; supports HDCP, Display Port Audio (2 streams), HBR2 link rates and Multi- Stream Technology for a maximum of 3 displays connected to any output controlled by Intel® Graphics
HDMI (optional)	Supports HDMI 2.0a features Supports HDCP 2.2 Supports audio over HDMI
VGA (optional)	VGA Output
USB-C™ DP Alt Mode (optional)	DisplayPort over the optional USB-C™ module
Memory	The actual amount of maximum graphics memory can be >4GB. System memory is allocated for graphics as needed using Intel's Dynamic Video Memory Technology (DVMT), to provide an optimal balance between graphics and system memory use.
Maximum Color Depth	up to 10 bits/color
Graphics/Video API Support	HEVC 10b Enc/Dec HW VP9 10b Dec HW HDR Rec. 2020 DX12

AMD® Radeon™ R7 430 2 GB VGA+DP Graphics Card

Engine Clock780 MHzMemory Clock1100 MHzMemory Size(width)2 GB(128-bit)Memory Type128M x 32 GDDR5Max. Resolution(VGA)2048x1536

Max. Resolution(DP) 4096x2160@60Hz

Multi Display Support2 displaysHDCP ComplianceYesRear I/O connectors(bracket)VGA+DP

Cooling(active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption(W) <50W

PCB form-factor with bracket LP PCB with FH/LP bracket





AMD® Radeon™ R7 430 2 GB 2DP Graphics Card

 Engine Clock
 780 MHz

 Memory Clock
 1100 MHz

 Memory Size(width)
 2GB(128-bit)

 Memory Type
 128M x 32 GDDR5

 Max. Resolution(DP)
 4096x2160@60Hz

Multi Display Support2 displaysHDCP ComplianceYesRear I/O connectors(bracket)2DP

Cooling(active/passive) Active fan-sink (Active cooling with dynamic speed)

Total power consumption(W) <50W

PCB form-factor with bracket LP PCB with FH/LP bracket

HP EliteOne 800 G4 All-in-One Business PC

Intel® UHD Graphics (integrated)	
VGA Controller	Integrated
DisplayPort™ 1.2	Multimode capable; supports HDCP, Display Port Audio (2 streams), HBR2 link rates and Multi- Stream Technology for a maximum of 3 displays (including the integrated panel and all attached displays)
HDMI	Supports HDMI 2.0a features Supports HDCP 2.2 Supports audio over HDMI
Memory	The actual amount of maximum graphics memory can be >4GB. System memory is allocated for graphics as needed using Intel's Dynamic Video Memory Technology (DVMT), to provide an optimal balance between graphics and system memory use.
Maximum Color Depth	up to 10 bits/color
Graphics/Video API Support	HEVC 10b Enc/Dec HW VP9 10b Dec HW HDR Rec. 2020 DX12

AMD® Radeon™ RX 560

Architecture Discrete GPU

AMD® GPU drives the integrated panel and all of the graphics output ports

DisplayPort Multimode capable; supports HDCP, HDR, Display Port Audio (6 streams max), DisplayPort HBR3

link rates and Multi-Stream Technology for a maximum of 5 displays (including the integrated

panel and all attached displays)

HDMI Supports HDMI 2.0b features

Supports HDCP 2.2, HDR

Memory 4GByte, 128bit wide GDDR5

Maximum Color Depth up to 12 bits/color

Graphics/Video API Support DirectX 12

OpenCL 2.0 OpenGL 4.5

AMD® Unified Video Decoder (UVD)





STORAGE

500 GB 7200RPM 3.5in SATA HDD

Capacity500 GBRotational Speed7,200 rpmInterfaceSATA 6.0 Gb/s

Buffer Size 16 MB

 Logical Blocks
 976,773,168

 Seek Time
 11 ms (Average)

 Height
 1 in/2.54 cm

Media diameter: 3.5 in/8.89 cm

Width Physical size: 4 in/10.2 cm
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 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

1 TB 7200RPM 3.5in SATA HDD

Capacity 1 TB

Rotational Speed 7,200 rpm **Interface** SATA 6 Gb/s **Buffer Size** 32 MB

 Logical Blocks
 1,953,525,168

 Seek Time
 11 ms (Average)

 Height
 1 in/2.54 cm

Media diameter: 3.5 in/8.89 cm

Width (nominal) Physical size: 4 in/10.2 cm
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 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

2 TB 7200RPM 3.5in SATA HDD

Capacity2 TBRotational Speed7,200 rpmInterfaceSATA 6 Gb/s

 Logical Blocks
 1,953,525,168

 Seek Time
 11 ms (Average)

 Height
 1.028 in/26.11 mm

 Width (nominal)
 4.0 in/101.6 mm

Operating Temperature 41° to 131° F (5° to 55° C)

64 MB

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.



Buffer Size



500 GB 7200RPM 2.5in SATA HDD

Capacity500 GBRotational Speed7,200 rpmInterfaceSATA 6 Gb/sBuffer Size16 MB

Logical Blocks 976,773,168 **Seek Time** 12 ms (Average)

Height0.267 in/6.8 mm (nominal)Width (nominal)2.75 in/70 mm (nominal)Operating Temperature41° 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 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

1 TB 7200RPM 2.5in SATA HDD

Capacity 1 TB

Rotational Speed 7,200 rpm **Interface** SATA 6 Gb/s **Buffer Size** 32 MB

Logical Blocks 1,953,525,168
Seek Time 12 ms (Average)

Height0.374 in/9.5 mm (nominal)Width (nominal)2.75 in/70 mm (nominal)Operating Temperature41° 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 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

2 TB 5400RPM 2.5in SATA HDD

Capacity 2 TB

Rotational Speed 5,400 rpm **Interface** SATA 6 Gb/s **Buffer Size** 128 MB

Logical Blocks 3,907,050,336 **Seek Time** 12 ms (Average)

Height0.374 in/9.5 mm (nominal)Width (nominal)2.75 in/70 mm (nominal)Operating Temperature41° to 131° F (5° to 55° C)





500 GB 7200RPM 2.5in Self Encrypted OPAL2 SATA HDD

Capacity 500 GB

Architecture Self-Encrypting (SED) Solid State Drive with SATA interface

Interface SATA 6 Gb/s

Buffer Size 32 MB

Logical Blocks 976,773,168 **Seek Time** 12 ms (Average)

 Height
 0.267 in/6.8 mm (nominal)

 Width
 2.75 in/70 mm (nominal)

 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 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

500 GB 7200RPM 2.5in Self Encrypted Federal Information Processing Standard SATA HDD

Capacity 500 GB

Architecture Self-Encrypting (SED) Solid State Drive with SATA interface

Interface SATA 6 Gb/s

Buffer Size 32 MB

Logical Blocks 976,773,168 **Seek Time** 12 ms (Average)

 Height
 0.267 in/6.8 mm (nominal)

 Width
 2.75 in/70 mm (nominal)

 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 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

500 GB 5400RPM 2.5in SATA SSHD

Capacity 500 GB
Rotational Speed 5,400 rpm

Drive Type Solid State Hybrid Drive (SSHD) technology with NAND Flash

InterfaceSATA 6 Gb/sBuffer Size64 MBNAND Flash8 GB

Seek Time 12 ms (Average)

 Height
 0.267 in/6.8 mm (nominal)

 Width
 2.75 in/70 mm (nominal)

 Operating Temperature
 41° to 131° F (5° to 55° C)





1 TB 5400RPM 2.5in SATA SSHD

Capacity 1 TB
Rotational Speed 5,400 rpm

Drive Type Solid State Hybrid Drive (SSHD) technology with NAND Flash

InterfaceSATA 6 Gb/sBuffer Size64 MBNAND Flash8 GB

Seek Time 12 ms (Average)

 Height
 0.374 in/9.5 mm (nominal)

 Width
 2.75 in/70 mm (nominal)

 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 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

2 TB 5400RPM 2.5in SATA SSHD

Capacity 2 TB

Rotational Speed 5,400 rpm

Drive Type Solid State Hybrid Drive (SSHD) technology with NAND Flash

Interface SATA 6 Gb/s
Buffer Size 128 MB
NAND Flash 8 GB

Seek Time 12 ms (Average)

 Height
 0.374 in/9.5 mm (nominal)

 Width
 2.75 in/70 mm (nominal)

 Operating Temperature
 41° to 131° F (5° to 55° C)





128 GB 2.5in SATA Three Layer Cell SSD

Drive Weight<50g</td>Capacity128 GBHeight7mmLength100.45mmWidth69.85mm

Interface SATA 3.0 (6Gb/s)

Performance Up to Random Read/Write = 70K/40K IOPS

Maximum Sequential ReadUp to 530MB/sMaximum Sequential WriteUp to 380MB/sLogical Blocks250,069,680

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features DIPM; TRIM

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

256 GB 2.5in SATA Three Layer Cell SSD

Drive Weight<62g</td>Capacity256 GBHeight7mmLength100.45mmWidth69.85mmInterfaceSATA 3.0 (6Gb/s)

Performance Up to Random Read/Write = 55K/68K IOPS

Maximum Sequential ReadUp to 530MB/sMaximum Sequential WriteUp to 450MB/sLogical Blocks500,118,192

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features DIPM; TRIM





512 GB 2.5in SATA Three Layer Cell SSD

Drive Weight<50g</td>Capacity512 GBHeight7mmLength100.45mmWidth69.85mm

Interface SATA 3.0 (6Gb/s)

Performance Up to Random Read/Write = 92K/83K IOPS

Maximum Sequential ReadUp to 530MB/sMaximum Sequential WriteUp to 500MB/sLogical Blocks1,000,215,216

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features DIPM; TRIM

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

256 GB 2.5in SATA Self Encrypted OPAL2 Three Layer Cell SSD

Drive Weight <50g
Capacity 256 GB
Height 7mm
Length 100.45mm
Width 69.85mm
Interface SATA 3.0 (6Gb/s)

Performance Up to Random Read/Write = 55K/80K IOPS

Maximum Sequential ReadUp to 530MB/sMaximum Sequential WriteUp to 500MB/sLogical Blocks500,118,192

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp] **Features** DIPM; TRIM; TCG-OPAL2.0 security





512 GB 2.5in SATA Self Encrypted OPAL2 Three Layer Cell SSD

Drive Weight<50g</td>Capacity512 GBHeight7mmLength100.45mmWidth69.85mm

Interface SATA 3.0 (6Gb/s)

Performance Up to Random Read/Write = 92K/83K IOPS

Maximum Sequential ReadUp to 530MB/sMaximum Sequential WriteUp to 500MB/sLogical Blocks1,000,215,216

Operating Temperature0° to 70°C (32° to 158°F) [ambient temp] **Features**DIPM; TRIM; TCG-OPAL2.0 security

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

256 GB 2.5in SATA Self Encrypted Federal Information Processing Standard SSD

Drive Weight <40g
Capacity 256 GB
Height 7mm
Length 100.45mm
Width 69.85mm
Interface SATA 3.0 (6Gb/s)

-

Performance Up to Random Read/Write = 55K/83K IOPS

Maximum Sequential ReadUp to 530MB/sMaximum Sequential WriteUp to 500MB/sLogical Blocks500,118,192

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features DIPM; TRIM; FIPS 140-2 security





512 GB 2.5in SATA Self Encrypted Federal Information Processing Standard SSD

Drive Weight<45g</td>Capacity512 GBHeight7mmLength100.45mmWidth69.85mm

Interface SATA 3.0 (6Gb/s)

Performance Up to Random Read/Write = 92K/83K IOPS

Maximum Sequential ReadUp to 530MB/sMaximum Sequential WriteUp to 500MB/sLogical Blocks1,000,215,216

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features DIPM; TRIM; FIPS 140-2 security

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

128 GB M.2 2280 PCIe NVMe SSD

Drive Weight < 10g
Capacity 128GB
Height 2.38mm
Length 80mm
Width 22mm
Interface PCIE Gen3

Performance Up to Random Read/Write = 60K/50K IOPS

Maximum Sequential ReadUp to 1400MB/sMaximum Sequential WriteUp to 395MB/sLogical Blocks250,069,680

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2





256 GB M.2 2280 PCIe NVMe SSD

Drive Weight < 10g
Capacity 256 GB
Height 2.38mm
Length 80mm
Width 22mm
Interface PCIE Gen3

Performance Up to Random Read/Write = 120K/170K IOPS

Maximum Sequential ReadUp to 1600MB/sMaximum Sequential WriteUp to 780MB/sLogical Blocks500,118,192

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

512 GB M.2 2280 PCIe NVMe SSD

Drive Weight< 10g</th>Capacity512 GBHeight2.38mmLength80mmWidth22mmInterfacePCIE Gen3

Performance Up to Random Read/Write = 200K/180K IOPS

Maximum Sequential ReadUp to 1600MB/sMaximum Sequential WriteUp to 860MB/sLogical Blocks1,000,215,216

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2





128 GB M.2 2280 PCIe NVMe Three Layer Cell SSD

Drive Weight< 10g</th>Capacity128 GBHeight2.38mmLength80mmWidth22mmInterfacePCIE Gen3x4

Performance Up to Random Read/Write = 140K/40K IOPS

Maximum Sequential ReadUp to 2800MB/sMaximum Sequential WriteUp to 600MB/sLogical Blocks250,069,680

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

256 GB M.2 2280 PCIe NVMe Three Layer Cell SSD

Drive Weight < 10g
Capacity 256GB
Height 2.38mm
Length 80mm
Width 22mm
Interface PCIE Gen3x4

Performance Up to Random Read/Write = 150K/180K IOPS

Maximum Sequential ReadUp to 2700MB/sMaximum Sequential WriteUp to 1000MB/sLogical Blocks500,118,192

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2





512 GB M.2 2280 PCIe NVMe Three Layer Cell SSD

Drive Weight< 10g</td>Capacity512 GBHeight2.38mmLength80mmWidth22mmInterfacePCIE Gen3x4

Performance Up to Random Read/Write = 270K/235K IOPS

Maximum Sequential ReadUp to 2900MB/sMaximum Sequential WriteUp to 1100MB/sLogical Blocks1,000,215,216

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

1 TB M.2 2280 PCIe NVMe Three Layer Cell SSD

Drive Weight< 10g</th>Capacity1 TBHeight2.38mmLength80mmWidth22mmInterfacePCIE Gen3x4

Performance Up to Random Read/Write = 290K/240K IOPS

Maximum Sequential ReadUp to 2900MB/sMaximum Sequential WriteUp to 2100MB/sLogical Blocks2,000,409,264

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2





256 GB M.2 2280 PCIe NVMe Self Encrypted OPAL2 Three Layer Cell SSD

Drive Weight< 10g</th>Capacity256 GBHeight2.38mmLength80mmWidth22mmInterfacePCIE Gen3x4

Performance Up to Random Read/Write = 150K/180K IOPS

Maximum Sequential ReadUp to 2700MB/sMaximum Sequential WriteUp to 1000MB/sLogical Blocks500,118,192

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2; TCG-OPAL2 security

NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.

512 GB M.2 2280 PCIe NVMe Self Encrypted OPAL2 Three Layer Cell SSD

Drive Weight < 10g
Capacity 512 GB
Height 2.38mm
Length 80mm
Width 22mm
Interface PCIE Gen3x4

Performance Up to Random Read/Write = 270K/235K IOPS

Maximum Sequential ReadUp to 2900MB/sMaximum Sequential WriteUp to 1100MB/sLogical Blocks1,000,215,216

Operating Temperature 0° to 70°C (32° to 158°F) [ambient temp]

Features APST; ASPM L1.2; NVME spec 1.2; TCG-OPAL2 security





HP 9.5mm Slim DVD-ROM Drive

Height 9.5 mm height

Orientation Either horizontal or vertical

Interface type SATA/ATAPI

Dimensions (W x H x D) 5.04 x 0.37 x 5.0 in (128 x 9.5 x 127 mm) without bezel

Weight (max) Up to 0.31 lb (140g) without bezel

DVD+R/-R/+RW/ **Read Speeds**

> -RW/+R DL /-R DL Up to 8X DVD-ROM Up to 8X CD-ROM, CD-R Up to 24X CD-RW Up to 24X

Access time

(typical reads, including

settling)

Random: DVD-ROM: 170 ms (typical), CD-ROM: 170 ms (typical) Full stroke: DVD-ROM: 320 ms (typical), CD-ROM: 320 ms (typical)

Power Source Slimline SATA DC power receptacle

> DC Power Requirement 5 VDC ± 5%-100 mV ripple p-p DC Current 5 VDC (< 1000 mA typical, 1600 mA maximum)

Environmental conditions

(operating - non-condensing)

Temperature 41° to 122° F (5° to 50° C) Relative Humidity 10% to 80%

Maximum Wet Bulb Temperature 84° F (29° C)

HP 9.5mm Slim DVD Writer Drive

Height 9.5 mm height

Orientation Either horizontal or vertical

Interface type SATA/ATAPI

Disc recording capacity Up to 8.5 GB DL or 4.7 GB standard

Dimensions (W x H x D) 5.04 x 0.37 x 5.0 in (128 x 9.5 x 127 mm) without bezel

Weight (max) 0.31 lb (140 g) **Read Speeds** DVD-R DL - Up to 6X

> DVD+R - Up to 8X DVD+RW - Up to 8X DVD+R DL - Up to 6X DVD-R - Up to 8X DVD-RW - Up to 6X CD-R - Up to 24X CD-RW - Up to 10X

DVD-RW, DVD+RW - Up to 8X DVD-R DL, DVD+R DL - Up to 8X DVD+R, DVD-R - Up to 8X DVD-ROM DL, DVD-ROM - Up to 8X

CD-ROM, CD-R - Up to 24X

CD-RW - Up to 24X

Access time

(typical reads, including

Full Stroke DVD-ROM: 320 ms (typical), CD-ROM: 320 ms (typical) Stop Time 6 seconds (typical)

settling) **Power**

Source Slimline SATA DC power receptacle

DC Power Requirement 5 VDC ± 5%-100 mV ripple p-p DC Current 5 VDC (< 1000 mA typical, 1600 mA maximum)

Random DVD-ROM: 170 ms (typical), CD-ROM: 170 ms (typical)



Technical Specifications

Environmental conditions (operating - non-condensing)

Temperature 41° to 122° F (5° to 50° C)

Relative Humidity 10% to 80%

Maximum Wet Bulb Temperature 84° F (29° C)

HP 9.5mm Slim Blu-Ray Writer Drive

Height 9.5 mm height

Orientation Either horizontal or vertical

Interface type SATA/ATAPI

Disc recording capacity Up to 128 GB QL, 100 GB TL, 50 GB DL or 25 GB standard SL **Dimensions (W x H x D)** 5.04 x 0.37 x 5.0 in (128 x 9.5 x 127 mm) without bezel

Weight (max) 0.29 lb (132 g)

BD-R Up to 4X
BD-RE Up to 2X
BD-R Up to 6X
BD-RE Up to 2X
DVD-R Up to 8X
DVD-RW Up to 6X
DVD+R Up to 8X
DVD+RW Up to 8X
DVD+RW Up to 8X
DVD-RAM Up to 5X
CD-R Up to 24X

CD-R Up to 24X
Write Speeds CD-RW Up to 10X
Read Speeds BD-R Up to 6X
BD-RE Up to 4X

BD-ROM Up to 6X
BD-R Up to 6X
BD-RE Up to 6X
DVD-ROM Up to 8X
DVD-R Up to 8X
DVD-RW Up to 8X
DVD-RW Up to 8X
DVD+R Up to 8X
DVD+R Up to 8X
DVD+RW Up to 8X
BDMV (AACS Compliant

Disc)

Up to 6x/2x (Read/Play) DVD-RAM Up to 5x DVD-Video (CSS Compliant Disc) Up to 8x/4x (Read/Play) CD-R/RW/ROM Up to 24x

CD-DA (DAE) Up to 24X/10X (Read/Play)

Access time

Random BD-ROM: 205 ms (typical), DVD-ROM: 185 ms (typical),

(typical reads, including

CD-ROM: 165 ms (typical)

settling)

Full Stroke BD-ROM: 350 ms (typical), DVD-ROM: 345 ms (typical),

CD-ROM: 340 ms (typical)

Power Source Slimline SATA DC power receptacle

DC Power Requirement 5 VDC ± 5%-100 mV ripple p-p DC Current 5 VDC -1200 mA typical, 2000 mA maximum

Environmental conditions (operating - non-condensing)

Temperature 41° to 122° F (5° to 50° C)

Relative Humidity 10% to 80%

Maximum Wet Bulb Temperature 84° F (29° C)





NETWORKING AND COMMUNICATIONS

Intel® i219LM 10/100/1000 I	ntegrated NIC
Connector	RJ-45
System Interface	PCI (Intel proprietary) + SMBus
Data rates supported	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)
	100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30)
	1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40)
	Auto-Negotiation (Automatic Speed Selection)
	Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s
IEEE Compliance	IEEE 802.1p QoS (Quality of Service) Support
	IEEE 802.1q VLAN support
	IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)
	IEEE 802.3az EEE (Energy Efficient Ethernet)
Performance	TCP/IP/UDP Checksum Offload (configurable)
	Protocol Offload (ARP & NS)
	Large send offload and Giant send offload
	Receiving Side Scaling
	Jumbo Frame 9K
Power consumption	Cable Disconnetion: 25mW
	100Mbps Full Run: 450mW
	1000bp Full Run: 1000mW
	WoL Enable(S3/S4/S5): 50mW
	WoL Disable(S3/S4/S5): 25mW
Power Management	ACPI compliant – multiple power modes
	Situation-sensitive features reduce power consumption
	Advanced link down power saving for reducing link down power consumption
Management Interface	Auto MDI/MDIX Crossover cable detection
IT Manageability	Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only)
	PXE 2.1 Remote Boot
	Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30))
	Comprehensive diagnostic and configuration software suite
	Virtual Cable Doctor for Ethernet cable status



Security & Manageability	Intel® vPro™ support with appropriate Intel® chipset components

Intel® i210 10/100/1000 Integrated NIC		
Connector	RJ-45	
System Interface	PCI (Intel proprietary) + SMBus	
Data rates supported	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)	
	100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30)	
	1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40)	
	Auto-Negotiation (Automatic Speed Selection)	
	Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s	
IEEE Compliance	IEEE 802.1p QoS (Quality of Service) Support	
	IEEE 802.1q VLAN support	
	IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)	
	IEEE 802.3az EEE (Energy Efficient Ethernet)	
Performance	TCP/IP/UDP Checksum Offload (configurable)	
	Protocol Offload (ARP & NS)	
	Large send offload and Giant send offload	
	Receiving Side Scaling	
	Jumbo Frame 9K	
Power consumption	Cable Disconnetion: 25mW	
	100Mbps Full Run: 450mW	
	1000bp Full Run: 1000mW	
	WoL Enable(S3/S4/S5): 50mW	
	WoL Disable(S3/S4/S5): 25mW	
Power Management	ACPI compliant – multiple power modes	
· ······· J ·········	Situation-sensitive features reduce power consumption	
	Advanced link down power saving for reducing link down power consumption	
Management Interface	Auto MDI/MDIX Crossover cable detection	
IT Manageability	Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only)	
	PXE 2.1 Remote Boot	
	Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30))	
	Comprehensive diagnostic and configuration software suite	
	Virtual Cable Doctor for Ethernet cable status	



Security & Manageability	Intel® vPro™ support with appropriate Intel® chipset components
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Intel® 9560 802.11AC 2x2 with	Bluetooth® M.2 Combo Card vPro™	
Wireless LAN Standards	IEEE 802.11a	
	IEEE 802.11b	
	IEEE 802.11g	
	IEEE 802.11n	
	IEEE 802.11ac	
Interoperability	Wi-Fi certified	
Frequency Band	802.11b/g/n	
	• 2.402 – 2.482 GHz	
	802.11a/n	
	• 4.9 – 4.95 GHz (Japan)	
	• 5.15 – 5.25 GHz	
	• 5.25 – 5.35 GHz	
	• 5.47 – 5.725 GHz	
	• 5.825 – 5.850 GHz	
Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps	
	• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	• 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)	
	• 802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz)	
Modulation	Direct Sequence Spread Spectrum	
	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM	
Security ¹	• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only	
	AES-CCMP: 128 bit in hardware	
	• 802.1x authentication	
	• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.	
	WPA2 certification	
	• IEEE 802.11i	
	Cisco Certified Extensions, all versions through CCX4 and CCX Lite	
	• WAPI	
Network Architecture	Ad-hoc (Peer to Peer)	
Models	Infrastructure (Access Point Required)	
Roaming	IEEE 802.11 compliant roaming between access points	
Output Power ²	• 802.11b: +18.5dBm minimum	
	• 802.11g: +17.5dBm minimum	
	• 802.11a: +18.5dBm minimum	
	• 802.11n HT20(2.4GHz): +15.5dBm minimum	
	• 802.11n HT40(2.4GHz): +14.5dBm minimum	
	• 802.11n HT20(5GHz): +15.5dBm minimum	
	• 802.11n HT40(5GHz): +14.5dBm minimum	
	• 802.11ac VHT80(5GHz): +11.5dBm minimum	
	• 802.11ac VHT160(5GHz): +11.5dBm minimum	
Power Consumption	• Transmit mode2.0 W	
	• Receive mode 1.6 W	
	• Idle mode (PSP) 180 mW (WLAN Associated)	
	• Idle mode 50 mW (WLAN unassociated)	
	Connected Standby 10mW	
	Radio disabled 8 mW	
Power Management	ACPI and PCI Express compliant power management	
	802.11 compliant power saving mode	
Receiver Sensitivity ³	802.11b, 1Mbps : -93.5dBm maximum	
	802.11b, 11Mbps : -84dBm maximum	



	802.11a/g, 6Mbps	s : -86dBm maximum	
	802.11a/g, 54Mbr	ps : -72dBm maximum	
	802.11n, MCS07:	802.11n, MCS07 : -67dBm maximum	
	802.11n, MCS15:	-64dBm maximum	
	802.11ac, MCS0:	-84dBm maximum	
	802.11ac, MCS9:	-59dBm maximum	
Antenna type	High efficiency an	itenna with spatial diversity, mounted in the display enclosure	
	Two embedded dı	ual band 2.4/5 GHz antennas are provided to the card to support WLAN	
	MIMO communica	tions and Bluetooth communications	
Form Factor	PCI-Express M.2 M	1iniCard	
Dimensions	Type 2230: 2.3 x 2	22.0 x 30.0 mm	
Weight	Type 2230: 2.8g		
Operating Voltage	3.3v +/- 9%		
Temperature	Operating	14° to 158° F (–10° to 70° C)	
	Non-operating	-40° to 176° F (-40° to 80° C)	
Humidity	Operating	10% to 90% (non-condensing)	
_	Non-operating	5% to 95% (non-condensing)	
Altitude	Operating	0 to 10,000 ft (3,048 m)	
	Non-operating	0 to 50,000 ft (15,240 m)	
LED Activity	LED Amber – Radi	io OFF; LED White – Radio ON	
4 (/		

- 1. Check latest software/driver release for updates on supported security features.
- 2. Maximum output power may vary by country according to local regulations.
- 3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

101 002.1 18/9 (0701411100	iulation).	
HP Integrated Module with Blueto	oth® 4.0/4.1/4.2/5.0 Wireless Technology	
Bluetooth® Specification	4.0/4.1/4.2/5.0 Compliant	
Frequency Band	2402 to 2480 MHz	
Number of Available Channels	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)	
Data Rates and Throughput	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps	
	BLE : 1 Mbps data rate; throughput up to 0.2 Mbps	
	Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channels	
Transmit Power	The Bluetooth® component shall operate as a Class II Bluetooth® device with a maximum transmit power of +4 dBm for BR and EDR.	
Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW	
Range	Legacy Up to 33 ft (10 m) BLE Up to 99 ft (30 m)	
Bluetooth® Software Supported Link Topology	Microsoft Windows Bluetooth® Software	
Power Management	Microsoft Windows ACPI, and USB Bus Support	
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark	
Bluetooth Profiles Supported	BT4.1-ESR 5/6/7 Compliance LE Link Layer Ping LE Dual Mode LE Link Layer LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels	



	Train Nudging & Interlaced Scan BT4.2 ESR08 Compliance LE Secure Connection- Basic/Full LE Privacy 1.2 –Link Layer Privacy
	LE Privacy 1.2 –Ellik Layer Privacy LE Privacy 1.2 –Extended Scanner Filter Policies LE Data Packet Length Extension FAX Profile (FAX)
	Basic Imaging Profile (BIP)2 Headset Profile (HSP)
Security & Manageability	Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP) Intel® vPro™ support with appropriate Intel® chipset components

Intel® 9560 802.11AC 2x2 with Bluetooth® M.2 Combo Card non-vPro™		
Wireless LAN Standards	IEEE 802.11a	
	IEEE 802.11b	
	IEEE 802.11g	
	IEEE 802.11n	
	IEEE 802.11ac	
Interoperability	Wi-Fi certified	
Frequency Band	802.11b/g/n	
	• 2.402 – 2.482 GHz	
	802.11a/n	
	• 4.9 – 4.95 GHz (Japan)	
	• 5.15 – 5.25 GHz	
	• 5.25 – 5.35 GHz	
	• 5.47 – 5.725 GHz	
	• 5.825 – 5.850 GHz	
Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps	
	• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	• 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)	
	• 802.11ac : MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz)	
Modulation	Direct Sequence Spread Spectrum	
	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM	
Security ¹	• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only	
-	AES-CCMP: 128 bit in hardware	
	• 802.1x authentication	
	• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.	
	WPA2 certification	
	• IEEE 802.11i	
	Cisco Certified Extensions, all versions through CCX4 and CCX Lite	
	• WAPI	
Network Architecture	Ad-hoc (Peer to Peer)	
Models	Infrastructure (Access Point Required)	
Roaming	IEEE 802.11 compliant roaming between access points	
Output Power ²	• 802.11b : +18.5dBm minimum	
	• 802.11g: +17.5dBm minimum	
	• 802.11a: +18.5dBm minimum	
	• 802.11n HT20(2.4GHz): +15.5dBm minimum	
	• 802.11n HT40(2.4GHz): +14.5dBm minimum	
	• 802.11n HT20(5GHz): +15.5dBm minimum	
	• 802.11n HT40(5GHz): +14.5dBm minimum	
	• 802.11ac VHT80(5GHz): +11.5dBm minimum	
	• 802.11ac VHT160(5GHz): +11.5dBm minimum	





Power Consumption	Transmit mode2.0	0 W	
•	Receive mode 1.	.6 W	
	• Idle mode (PSP) 1	80 mW (WLAN Associated)	
	• Idle mode 50 mW	(WLAN unassociated)	
	 Connected Standt 	by 10mW	
	• Radio disabled 8 r	mW	
Power Management	ACPI and PCI Express compliant power management		
_	802.11 compliant p	power saving mode	
Receiver Sensitivity ³	802.11b, 1Mbps : -9	93.5dBm maximum	
	802.11b, 11Mbps:	-84dBm maximum	
	802.11a/g, 6Mbps :	: -86dBm maximum	
	802.11a/g, 54Mbps	s : -72dBm maximum	
	802.11n, MCS07 : -	67dBm maximum	
	802.11n, MCS15: -		
	802.11ac, MCS0 : -8		
	802.11ac, MCS9 : -5		
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure		
		al band 2.4/5 GHz antennas are provided to the card to support WLAN	
		ons and Bluetooth communications	
Form Factor		PCI-Express M.2 MiniCard	
Dimensions	1 2 2	Type 2230: 2.3 x 22.0 x 30.0 mm	
Weight	Type 2230: 2.8g		
Operating Voltage	3.3v +/- 9%		
Temperature	Operating	14° to 158° F (–10° to 70° C)	
	Non-operating	–40° to 176° F (–40° to 80° C)	
Humidity	Operating	10% to 90% (non-condensing)	
	Non-operating	5% to 95% (non-condensing)	
Altitude	Operating	0 to 10,000 ft (3,048 m)	
	Non-operating	0 to 50,000 ft (15,240 m)	
LED Activity		OFF; LED White – Radio ON	
1. Check latest software	Adriver release for undates	on supported security features.	

- I. Check latest software/driver release for updates on supported security features.
- 2. Maximum output power may vary by country according to local regulations.
- 3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

HP Integrated Module with Bluetooth® 4.0/4.1/4.2/5.0 Wireless Technology		
Bluetooth® Specification	4.0/4.1/4.2/5.0 Compliant	
Frequency Band	2402 to 2480 MHz	
Number of Available Channels	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)	
Data Rates and Throughput	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps	
	BLE : 1 Mbps data rate; throughput up to 0.2 Mbps	
	Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channels	
Transmit Power	The Bluetooth® component shall operate as a Class II Bluetooth® device with a maximum transmit power of +4 dBm for BR and EDR.	
Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW	
Range	Legacy Up to 33 ft (10 m) BLE Up to 99 ft (30 m)	
Bluetooth® Software Supported Link Topology	Microsoft Windows Bluetooth® Software	
Power Management	Microsoft Windows ACPI, and USB Bus Support	



Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
	ETS 300 328, ETS 300 826
	Low Voltage Directive IEC950
	UL, CSA, and CE Mark
Bluetooth Profiles Supported	BT4.1-ESR 5/6/7 Compliance
	LE Link Layer Ping
	LE Dual Mode
	LE Link Layer
	LE Low Duty Cycle Directed Advertising
	LE L2CAP Connection Oriented Channels
	Train Nudging & Interlaced Scan
	BT4.2 ESR08 Compliance
	LE Secure Connection- Basic/Full
	LE Privacy 1.2 –Link Layer Privacy
	LE Privacy 1.2 –Extended Scanner Filter Policies
	LE Data Packet Length Extension
	FAX Profile (FAX)
	Basic Imaging Profile (BIP)2
	Headset Profile (HSP)
	Hands Free Profile (HFP)
	Advanced Audio Distribution Profile (A2DP)

	2x2 with Bluetooth® M.2 Combo Card	
Wireless LAN Standards	IEEE 802.11a	
	IEEE 802.11b	
	IEEE 802.11g	
	IEEE 802.11n	
	IEEE 802.11ac	
Interoperability	Wi-Fi certified	
Frequency Band	802.11b/g/n	
	• 2.402 – 2.482 GHz	
	802.11a/n	
	• 4.9 – 4.95 GHz (Japan)	
	• 5.15 – 5.25 GHz	
	• 5.25 – 5.35 GHz	
	• 5.47 – 5.725 GHz	
	• 5.825 – 5.850 GHz	
Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps	
	• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	• 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)	
	• 802.11ac : MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz)	
Modulation	Direct Sequence Spread Spectrum	
	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM	
Security ¹	• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only	
	AES-CCMP: 128 bit in hardware	
	802.1x authentication	
	• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.	
	WPA2 certification	
	• IEEE 802.11i	
	 Cisco Certified Extensions, all versions through CCX4 and CCX Lite 	
	• WAPI	
Network Architecture	Ad-hoc (Peer to Peer)	
Models	Infrastructure (Access Point Required)	
Roaming	IEEE 802.11 compliant roaming between access points	



Output Power ²	• 802.11b: +14dBm mir	nimum		
•	• 802.11g: +12dBm mir	nimum		
	• 802.11a: +12dBm mii	nimum		
	• 802.11n HT20(2.4GH	z): +12dBm minimum		
	• 802.11n HT40(2.4GH;	• 802.11n HT40(2.4GHz): +12dBm minimum		
	• 802.11n HT20(5GHz):	• 802.11n HT20(5GHz): +10dBm minimum • 802.11n HT40(5GHz): +10dBm minimum		
	• 802.11n HT40(5GHz):			
	• 802.11ac VHT80(5GH	z): +10dBm minimum		
Power Consumption • Transmit mode 2.0 W				
·	• Receive mode 1.6 W			
	• Idle mode (PSP) 180 r	nW (WLAN Associated)		
	• Idle mode 50 mW (WL	AN unassociated)		
	 Connected Standby 1 	0mW		
	 Radio disabled 8 mW 			
Power Management	ACPI and PCI Express co	ompliant power management		
	802.11 compliant power	er saving mode		
Receiver Sensitivity ³	802.11b, 1Mbps: -93.5	dBm maximum		
	802.11b, 11Mbps: -84d	IBm maximum		
	802.11a/g, 6Mbps: -86	dBm maximum		
		802.11a/g, 54Mbps: -72dBm maximum		
	•	802.11n, MCS07: -67dBm maximum		
	•	802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm maximum		
	•			
Antenna type	High efficiency antenna	High efficiency antenna with spatial diversity, mounted in the display enclosure		
		and 2.4/5 GHz antennas are provided to the card to support WLAN		
	L	MIMO communications and Bluetooth communications		
Form Factor	·	PCI-Express M.2 MiniCard		
Dimensions	Type 2230 : 2.3 x 22.0 :	Type 2230 : 2.3 x 22.0 x 30.0 mm		
Weight	Type 2230 : 2.8g	Type 2230 : 2.8g		
Operating Voltage		3.3v +/- 9%		
Temperature	Operating 14	° to 158° F (–10° to 70° C)		
	Non-operating –4	0° to 176° F (–40° to 80° C)		
Humidity	Operating 10	% to 90% (non-condensing)		
	Non-operating 5% to 95% (non-condensing)			
Altitude	Operating 0 to	o 10,000 ft (3,048 m)		
	Non-operating 0 to 50,000 ft (15,240 m)			
LED Activity		LED Amber – Radio OFF; LED White – Radio ON		
1 Check latest software	/driver release for undates on	supported security features		

- 1. Check latest software/driver release for updates on supported security features.
- 2. Maximum output power may vary by country according to local regulations.
- 3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

HP Integrated Module with Bluetooth® 4.0/4.1/4.2 Wireless Technology		
Bluetooth® Specification	4.0/4.1/4.2 Compliant	
Frequency Band	2402 to 2480 MHz	
Number of Available Channels	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)	
Data Rates and Throughput	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps	
	BLE : 1 Mbps data rate; throughput up to 0.2 Mbps	
Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channel Legacy : Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymme (3-EV5)		





Transmit Power	The Bluetooth® component shall operate as a Class II Bluetooth® device with a maximum		
	transmit power of +4 dBm for BR and EDR.		
Power Consumption	Peak (Tx) 330 mW		
rower consumption	Peak (Rx) 230 mW		
	Selective Suspend 17 mW		
Electrical Interface	USB 2.0 compliant		
	Microsoft Windows Bluetooth® Software		
Bluetooth® Software Supported Link Topology	Microsoft windows Bluetooth® Software		
Power Management	Microsoft Windows ACPI, and USB Bus Support		
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249		
	ETS 300 328, ETS 300 826		
	Low Voltage Directive IEC950		
	UL, CSA, and CE Mark		
Bluetooth Profiles Supported	BT4.1-ESR 5/6/7 Compliance		
	LE Link Layer Ping		
	LE Dual Mode		
	LE Link Layer		
	LE Low Duty Cycle Directed Advertising		
	LE L2CAP Connection Oriented Channels		
	Train Nudging & Interlaced Scan		
	BT4.2 ESR08 Compliance		
	LE Secure Connection- Basic/Full		
	LE Privacy 1.2 –Link Layer Privacy		
	LE Privacy 1.2 –Extended Scanner Filter Policies		
	LE Data Packet Length Extension		
	FAX Profile (FAX)		
	Basic Imaging Profile (BIP)2		
	Headset Profile (HSP)		
	Hands Free Profile (HFP)		
	Advanced Audio Distribution Profile (A2DP)		

Realtek RTL8821CE 802.11ac 1x1 with Bluetooth® M.2 Combo Card			
Wireless LAN Standards	IEEE 802.11a		
	IEEE 802.11b		
	IEEE 802.11g		
	IEEE 802.11n		
	IEEE 802.11ac		
Interoperability	Wi-Fi certified		
Frequency Band	802.11b/g/n		
	• 2.402 – 2.482 GHz		
	802.11a/n		
	• 4.9 – 4.95 GHz (Japan) • 5.15 – 5.25 GHz		
	• 5.25 – 5.35 GHz		
	• 5.47 – 5.725 GHz		
	• 5.825 – 5.850 GHz		
Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps		
	• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps		
	• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps		
	• 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)		
	• 802.11ac : MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)		
Modulation	Direct Sequence Spread Spectrum		
	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM		



Technical Specifications

Security ¹	• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only		
•	AES-CCMP: 128 bit in hardware		
	• 802.1x authentication		
	• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.		
	WPA2 certification		
	• IEEE 802.11i		
	Cisco Certified Extensions, all versions through CCX4 and CCX Lite		
	• WAPI		
Network Architecture	Ad-hoc (Peer to Peer)		
Models	Infrastructure (Access Point Required)		
Roaming	IEEE 802.11 compliant roaming between access points		
Output Power ²	• 802.11b : +14dBm minimum		
	• 802.11g : +12dBm minimum		
	• 802.11a : +12dBm minimum		
	• 802.11n HT20(2.4GHz) : +12dBm minimum		
	• 802.11n HT40(2.4GHz) : +12dBm minimum		
	• 802.11n HT20(5GHz) : +10dBm minimum		
	• 802.11n HT40(5GHz) : +10dBm minimum		
	• 802.11ac VHT80(5GHz) : +10dBm minimum		
Power Consumption	• Transmit mode2.0 W		
i ower consumption	• Receive mode 1.6 W		
	• Idle mode (PSP) 180 mW (WLAN Associated)		
	• Idle mode 50 mW (WLAN unassociated)		
	• Connected Standby 10mW		
	• Radio disabled 8 mW		
Power Management	ACPI and PCI Express compliant power management		
. ower ranagement	802.11 compliant power saving mode		
Receiver Sensitivity ³	802.11b, 1Mbps : -93.5dBm maximum		
necessar Sensitivity	802.11b, 11Mbps : -84dBm maximum		
	802.11a/g, 6Mbps : -86dBm maximum		
	802.11a/g, 54Mbps : -72dBm maximum		
	802.11n, MCS07 : -67dBm maximum		
	802.11n, MCS15: -64dBm maximum		
	802.11ac, MCS0 : -84dBm maximum		
	802.11ac, MCS9 : -59dBm maximum		
Antenna type	High efficiency antenna.		
······································	One embedded dual band 2.4/5 GHz antenna is provided to the card to support WLAN		
	communications and Bluetooth communications		
Form Factor	PCI-Express M.2 MiniCard		
Dimensions	Type 2230 : 2.3 x 22.0 x 30.0 mm		
Weight	Type 2230 : 2.8g		
Operating Voltage	3.3v +/- 9%		
Temperature	Operating 14° to 158° F (–10° to 70° C)		
i emperature	Non-operating		
Humidity			
numunty	Operating 10% to 90% (non-condensing) Non-operating 5% to 95% (non-condensing)		
Altitude			
Attitude	Operating 0 to 10,000 ft (3,048 m)		
LED Activity	Non-operating 0 to 50,000 ft (15,240 m)		
	LED Amber – Radio OFF; LED White – Radio ON		
I I HOLK LATOST SOTTIMATO	TOTAL TOTAL A LOS TIMOSTOS ON CHIMOSTON COCHETY TOSTIPOS		

- 1. Check latest software/driver release for updates on supported security features.
- 2. Maximum output power may vary by country according to local regulations.
- 3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

HP Integrated Module with Bluetooth® 4.0/4.1/4.2 Wireless Technology

Bluetooth® Specification 4.0/4.1/4.2 Compliant





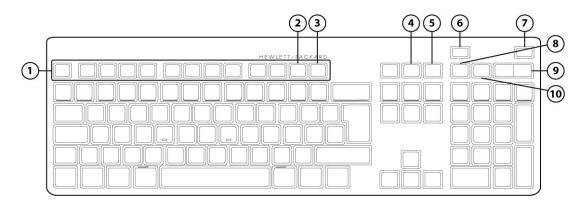
Frequency Band	2402 to 2480 MHz		
Number of Available Channels	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)		
Data Rates and Throughput	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps		
	BLE: 1 Mbps data rate; throughput up to 0.2 Mbps		
	Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)		
Transmit Power	The Bluetooth® component shall operate as a Class II Bluetooth® device with a maximum transmit power of +4 dBm for BR and EDR.		
Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW		
Electrical Interface	USB 2.0 compliant		
Bluetooth® Software Supported Link Topology	Microsoft Windows Bluetooth® Software		
Power Management	Microsoft Windows ACPI, and USB Bus Support		
Certifications	ETS 300 328, ETS 300 826		
	Low Voltage Directive IEC950		
	UL, CSA, and CE Mark		
Bluetooth Profiles Supported	BT4.1-ESR 5/6/7 Compliance		
	LE Link Layer Ping LE Dual Mode		
	LE Link Layer		
	LE Low Duty Cycle Directed Advertising		
	LE L2CAP Connection Oriented Channels		
	Train Nudging & Interlaced Scan		
	BT4.2 ESR08 Compliance		
	LE Secure Connection- Basic/Full		
	LE Privacy 1.2 –Link Layer Privacy		
	LE Privacy 1.2 –Extended Scanner Filter Policies		
	LE Data Packet Length Extension		
	FAX Profile (FAX)		
	Basic Imaging Profile (BIP)2 Headset Profile (HSP)		
	Headset Profile (HSP) Hands Free Profile (HFP)		
	Advanced Audio Distribution Profile (A2DP)		
	playancea hadio bistribution i fonte (hebi)		





I/O DEVICES

HP Conferencing Keyboard



- 1. Function Keys
- 2. F11 Lync or Skype for Business Contact list[1]
- 3. F12 Lync or Skype for Business Calendar[2]
- 4. Share Screen
- 5. Stop Webcam

- 6. End/Decline a Call
- 7. Answer a Call
- 8. Microphone Mute
- 9. Volume Up/Down
- 10. Audio Mute
- 1. Microsoft Lync 2013, or Skype for Business, or Microsoft Outlook 2013 Contact list
- 2. Microsoft Lync 2013, or Skype for Business, or Microsoft Outlook 2013 Calendar

HP USB Premium Keyboard		
Physical Characteristics	Keys	104, 105 layout (depending upon country)
	Dimensions (L x W x H)	17.04 x 5.55 x 0.52 in (433 x 141 x13.2 mm)
	Weight	1.54 lb. (698g)
	Operating voltage	5 VDC, +/-5%
	Power consumption	35mA (All LED on)
Electrical	System interface	USB Type A plug connector
Electrical	ESD	Contact Discharge: 8 KV Air Discharge: 15 KV
	EMI - RFI	Conforms to FCC rules for a Class B computing device
	Microsoft® PC 99 - 2001	Functionally compliant
	Keycaps	Low-profile design
	Switch actuation	60±10g nominal peak force with tactile feedback
Mechanical	Switch life	10 million keystrokes (Life tester)
	Switch type	Contamination-resistant switch membrane
	Key-leveling mechanisms	For all double-wide and greater-length keys
	Cable length	6 ft. (1.8 m)
	Microsoft PC 99 - 2001	Mechanically compliant



	Acoustics	43-dBA maximum sound pressure level
	Operating temperature	50° to 122° F (10° to 50° C)
	Non-operating temperature	-22° to 140° F (-30° to 60° C)
	Operating humidity	10% to 90% (non-condensing at ambient)
Environmental	Non-operating humidity	20% to 80% (non-condensing at ambient)
	Operating shock	40 g, six surfaces
	Non-operating shock	80 g, six surfaces
	Operating vibration	2-g peak acceleration
	Non-operating vibration	4-g peak acceleration
	Drop (out of box)	26 in (66 cm) on carpet, six-drop sequence
	Drop (in box)	30 in (76.2 cm) on concrete, 16-drop sequence
Approvals	UL, FCC, CE Mark, TUV GS, VCCI, BSMI, C-Tick, KC	
Ergonomic compliance	TUVGS	
Kit contents	Keyboard, QSP	
Warranty Card	Product Notice	

Skylab USB Wired Keyboard		
Physical Characteristics	Keys	104, 105, 106, 107, 109 layout (depending upon country)
	Dimensions (L x W x H)	171.97 x 68.35 x 8.27 in (436.8± 1.5 x 137.6± 1.0 x 21.0± 1.0 cm)
	Weight	1.32 lb. (0.6± 0.08 kg)
Electrical	Operating voltage	4.4-5.25VDC
	Power consumption	50-mA maximum (with 5 VDC power supplied and three LEDs ON)
	System interface	USB
	ESD	Contact Discharge: 2, 4,6,8KV Air Discharge: 2, 4, 8,10,12.5KV
	EMI - RFI	Conforms to FCC rules for a Class B computing device
Mechanical	Keycaps	Low-profile design
	Switch actuation	60±10g nominal peak force with tactile feedback
	Switch life	10 million keystrokes (Life tester)
	Switch type	Contamination-resistant switch membrane
	Key-leveling mechanisms	For all double-wide and greater-length keys
	Cable length	6 ft. (1.8 m)





	Microsoft PC 99 - 2001	Mechanically compliant
	Acoustics	43-dBA maximum sound pressure level
	Operating temperature	50° to 122° F (10° to 50° C)
	Non-operating temperature	Minus 30 degrees to 60 degrees Celsius
	Operating humidity	10% to 90% (non-condensing at ambient)
	Non-operating humidity	20% to 80% (non-condensing at ambient)
Environmental	Operating shock	40 g, six surfaces
	Non-operating shock	80 g, six surfaces
	Operating vibration	2-g peak acceleration
	Non-operating vibration	4-g peak acceleration
	Drop (out of box)	26 in (66 cm) on carpet, six-drop sequence
	Drop (in box)	30 in (76.2 cm) on concrete, 16-drop sequence
Approvals	UL, FCC, CE Mark, TUV GS, VCCI, BSMI, C-Tick, KC	
Ergonomic compliance	ANSI HFS 100, ISO 9241-4, and TUVGS	
Kit contents	Keyboard, Installation Guide, Warranty card, Safety and Comfort Guide	





HP USB Premium Mo	ouse	
Dimensions (H x L x W)	4.21 x 2.64 x 1.52 in (107 x 67 x 38.7 mmm)	
Weight	0.19lb (90g)	
Environmental	Operating temperature	50° to 122°F (10° to 50° C)
	Non-operating temperature	-22° to 140°F (-30° to 60° C)
	Operating humidity	10% to 90% (non-condensing at ambient)
	Non-operating humidity	20% to 80% (non-condensing at ambient)
	Operating shock	50 g, 6 surfaces
	Non-operating shock	80 g, 6 surfaces
	Operating vibration	2 g peak acceleration
	Non-operating vibration	4 g peak acceleration
Electrical	Operating voltage	5 VDC, +/-5%
	Power consumption	12mA
Mechanical	Connector	USB 2.0
	Туре	3D mouse (3 keys and wheel)
	Resolution	800, 1200, 1600 DPI
	Sensor	Pixart PAN3606DL
Tracking speed	Tracking acceleration	8G(max), 1G=9.8m/s2
	Cable length	6 ft. (1.8 m)
	Color	Jack Black
Regulatory approvals	Compliant	UL, FCC, CE Mark, TUV GS, VCCI, BSMI, C-Tick, KC

HP USB Mouse						
Dimensions (H x L x W)	37mm*115mm*62.9m	37mm*115mm*62.9mm				
Weight	90 +10g/- 5 g	90 +10g/- 5 g				
Color	Black	Black				
Connector	USB					
	Resolution	800 DPI sensitivity				
Mechanical	Buttons	Two primary buttons and clickable scroll wheel				



AUDIO/MULTIMEDIA

HP EliteDesk 800 G4 Tower Business PC

Type Integrated

HD Stereo Codec Conexant CX20632

Front: 1 - Headset connector supports a CTIA style headset and is re-taskable as a Line-in, Line-

out, Microphone-in or Headphone-out port

1 - Headphone port Rear: Line-out

Line-in which is retaskable as a Microphone Input

Audio I/O Ports All ports are 3.5mm and support stereo

Internal Speaker Amplifier 2W class D mono amplifier for the internal speaker only. External speakers must be powered

Playback multi-streaming can be enabled in the audio control panel to allow independent audio

Multi-streaming Capable streams to be sent to/from the front and rear jacks or integrated speaker.

Independent sampling rates for DAC's and ADC's; supports resolutions from 16 to 24-bit; 44.1 kHz

to 192 kHz for DAC and 44.1 kHz to 96 kHz for ADC

Wavetable Syntheses Yes - Uses OS soft wavetable

Analog Audio Yes

Sampling

Sampling

of Channels on Line-Out Stereo (Left & Right channels)

Internal Speaker Yes

HP EliteDesk 800 G4 Small Form Factor Business PC

Type Integrated

HD Stereo Codec Conexant CX20632

Front: 1 - Headset connector supports a CTIA style headset and is re-taskable as a Line-in, Line-

out, Microphone-in or Headphone-out port

1 - Headphone port Rear: Line-out

Line-in which is retaskable as a Microphone Input

All ports are 3.5mm and support stereo

Audio I/O Ports All ports are 3.5mm and support stereo

Internal Speaker Amplifier 2W class D mono amplifier for the internal speaker only. External speakers must be powered

Playback multi-streaming can be enabled in the audio control panel to allow independent audio

Multi-streaming Capable streams to be sent to/from the front and rear jacks or integrated speaker.

Independent sampling rates for DAC's and ADC's; supports resolutions from 16 to 24-bit; 44.1 kHz

to 192 kHz for DAC and 44.1 kHz to 96 kHz for ADC

Wavetable Syntheses Yes - Uses OS soft wavetable

Analog Audio Yes

of Channels on Line-Out Stereo (Left & Right channels)

Internal Speaker Yes





HP EliteDesk 800 G4 Desktop Mini Business PC

Type Integrated

HD Stereo Codec Conexant CX20632

Front: 1 - Headset connector supports a CTIA style headset and is re-taskable as a Line-in, Line-

out, Microphone-in or Headphone-out port

Audio I/O Ports 1 - Headphone port

Internal Speaker Amplifier 2W class D mono amplifier for the internal speaker only. External speakers must be powered

Playback multi-streaming can be enabled in the audio control panel to allow independent audio

Multi-streaming Capable streams to be sent to/from the front and rear jacks or integrated speaker.

Independent sampling rates for DAC's and ADC's; supports resolutions from 16 to 24-bit; 44.1 kHz

Sampling to 192 kHz for DAC and 44.1 kHz to 96 kHz for ADC

Wavetable Syntheses Yes - Uses OS soft wavetable

Analog Audio Yes

of Channels on Line-Out Stereo (Left & Right channels)

Internal Speaker Yes

HP EliteOne 800 G4 All-in-One Business PC

Bang & Olufsen Audio

Type Integrated

HD Stereo Codec Conexant CX5001

Side headset connector supports a CTIA style headset and is re-taskable as a Line-in, Line-out,

Microphone-in or Headphone-out port

Side headphone connector supports a headphone connections

Rear line out connector

Audio I/O Ports All ports are 3.5mm and support stereo

Internal Speaker Amplifier 2W per channel class D stereo amplifier for the internal speakers only

Playback multi-streaming can be enabled in the audio control panel to allow independent audio

Multi-streaming Capable streams to be sent to/from the front and rear jacks or integrated speakers.

Independent sampling rates for DAC's and ADC's; supports resolutions from 16 to 24-bit; 44.1 kHz

to 192 kHz for DAC and 44.1 kHz to 96 kHz for ADC

Wavetable Syntheses Yes - Uses OS soft wavetable

Analog Audio Yes

Sampling

of Channels on Line-Out Stereo (Left & Right channels)

Internal Speaker Yes - Stereo





INTEGRATED WEBCAM AND MICROPHONE

Integrated Webcam and Microphone

Optional integrated 2 MP Full HD RGB webcam & microphone; maximum resolution of 1920 x 1080

Optional integrated 2 MP Full HD RGB dual-facing webcam with IR sensor (user-facing) & microphone; maximum resolution of 1920 x 1080

NOTE: All HP devices which carry the Bang & Olufsen brand are custom-tuned with Bang & Olufsen's acoustical engineers for precise sound experience in business use.

POWER

HP EliteDesk 800 G4 Tower Business PC

Unit Environment and Operating Conditions

Operating: 5°C ~45°C

Temperature Range Non-Operating: -40°C ~66°C

Operating 5% to 90% relative humidity at max inlet temperature

Relative Humidity Non-Operating 5% to 90% relative humidity at max inlet temperature

Maximum Altitude Operating: 5000m

(unpressurized) Non-operating: 50,000 ft. (15240 m)

HP EliteDesk 800 G4 Desktop Mini Business PC (35W)

Unit Environment and Operating Conditions

Operating: 5°C ~35°C

Temperature Range Non-Operating: -40°C ~66°C

Operating 5% to 90% relative humidity at max inlet temperature

Relative Humidity Non-Operating 5% to 90% relative humidity at max inlet temperature

Maximum Altitude Operating: 5000m

(unpressurized) Non-operating: 50,000 ft. (15240 m)

HP EliteDesk 800 G4 Desktop Mini Business PC (65W)

Unit Environment and Operating Conditions

Operating: 5°C ~35°C

Temperature Range Non-Operating: -40°C ~66°C

Operating 5% to 90% relative humidity at max inlet temperature

Relative Humidity Non-Operating 5% to 90% relative humidity at max inlet temperature

Maximum Altitude Operating: 5000m

(unpressurized) Non-operating: 50,000 ft. (15240 m)

HP EliteDesk 800 G4 Desktop Mini Business PC (95W)

Unit Environment and Operating Conditions

Operating: 5°C ~35°C

Temperature Range Non-Operating: -40°C ~66°C

Operating 5% to 90% relative humidity at max inlet temperature

Relative Humidity Non-Operating 5% to 90% relative humidity at max inlet temperature

Maximum Altitude Operating: 5000m

(unpressurized) Non-operating: 50,000 ft. (15240 m)





HP EliteOne 800 G4 All-in-One Business PC

Unit Environment and Operating Conditions

Operating: 5°C ~45°C

Temperature Range Non-Operating: -40°C ~66°C

Operating 5% to 90% relative humidity at max inlet temperature

Relative Humidity Non-Operating 5% to 90% relative humidity at max inlet temperature

Maximum Altitude Operating: 5000m

(unpressurized) Non-operating: 50,000 ft. (15240 m)

	DM	SFF	TWR	AiO
80 PLUS Gold	N/A	N/A	500W active PFC / 80 PLUS Gold 87/90/87% efficient at 20/50/100% load (115V)	180W active PFC / 80 PLUS Gold* 87/90/87% efficient at 20/50/100% load (115V) *Available on models with integrated graphics
80 PLUS Platinum	efficiency at 115V & 230Vac 90W EPS, 89% average efficiency at 115V & 230Vac 150W EPS, 89% average	250W active PFC / 80 PLUS Platinum 90/92/89% efficient at 20/50/100% load (115V) 91/93/90% efficient at 20/50/100% load (230V)	250W active PFC / 80 PLUS Platinum 90/92/89% efficient at 20/50/100% load (115V) 91/93/90% efficient at 20/50/100% load (230V)	210W active PFC / 80 PLUS Platinum* 90/92/89% efficient at 20/50/100% load (115V) 91/93/90% efficient at 20/50/100% load (230V) *Available on models with discrete graphics
Operating Voltage Range	90Vac~264Vac	90Vac~264Vac	90Vac~264Vac	90Vac~264Vac
Rated Voltage Range	100Vac~240Vac	100Vac~240Vac	100Vac~240Vac	100Vac~240Vac
Rated Line Frequency	50HZ~60HZ	50HZ~60HZ	50HZ~60HZ	50HZ~60HZ
Operating Line Frequency	47HZ~63HZ	47HZ~63HZ	47HZ~63HZ	47HZ~63HZ
Rated Input Current	65W≦1.6A 90W≦1.2A 150W拿.2A	250W ≨ A	500W≦6A 250W≦A	210W≨A 180W≨.5A
Rated Input Current with Energy Efficient* Power Supply	65W≦1.6A 90W≦1.2A 150W拿.2A	250W ≨ A	500W≦6A 250W≦A	210W≨A 180W≨.5A
DC Output	+19.5VV	+12V	+12V	+12V



	DM	SFF	TWR	AiO
Current Leakage (NFPA	Less than 500	Less than 500	Less than 500	Less than 500
	microamps of leakage	microamps of leakage	microamps of leakage	microamps of leakage
	current at 120 Vac with	current at 120 Vac with	current at 120 Vac with	current at 120 Vac with
	the ground wire	the ground wire	the ground wire	the ground wire
	disconnected, as	disconnected, as	disconnected, as	disconnected, as
	required for Non-patient			•
	Electrical Appliances		Electrical Appliances	patient Electrical
	and Equipment used in a			
	patient care facility or		patient care facility or	Equipment used in a
	that contact patients in		that contact patients in	patient care facility or
	normal use. Per section		normal use. Per section	that contact patients in
	10.3.5.1.	10.3.5.1.	10.3.5.1.	normal use. Per section
	Less than 100		Less than 100	10.3.5.1.
	microamps of leakage		microamps of leakage	Less than 100
	current at 120 Vac with		current at 120 Vac with	microamps of leakage
	the ground wire intact		the ground wire intact	current at 120 Vac with
	with normal polarity, as		with normal polarity, as	the ground wire intact
	required for Non-patient			
	Electrical Appliances		Electrical Appliances	required for Non-
	and Equipment used in a			
	patient care facility or		patient care facility or	Appliances and
	that contact patients in normal use. Per section		that contact patients in normal use. Per section	Equipment used in a patient care facility or
	10.3.5.1.	10.3.5.1.	10.3.5.1.	that contact patients in
	10.3.3.1.	10.3.3.1.	10.3.3.1.	normal use. Per section
				10.3.5.1.
Power Supply Fan	N/A	70mm variable speed	70mm variable speed	N/A
			·	
	6.0 ft. (1.83 m)	6.0 ft. (1.83 m)	6.0 ft. (1.83 m)	6.0 ft. (1.83 m)
External Power				
Adapter	External power supply	Internal power supply	Internal power supply	Internal power supply
Dimensions	65W: 113.5mm x 55mm	165mm x 95mm x	165mm x 95mm x	135mm x 100mm x
	x 30mm	73mm	73mm	19.52mm
	90W: 132mm x 57mm x			
	30mm			
	150W: 160mm x 80mm			
	x 40mm			
Total Cord Length	6.0 ft. (1.83 m)	6.0 ft. (1.83 m)	6.0 ft. (1.83 m)	6.0 ft. (1.83 m)



WEIGHTS & DIMENSIONS

	DM	SFF	TWR	AiO
Chassis (W x D x H)	177x175x34mm	3.94 x 13.3 x 12.13 in 100 x 338 x 308 mm	6.1 x 14.6 x 14.4 in 154 x 370 x 365 mm	See table below.
System Volume	1.05L	10.4 L 634 cu in	20.8 L 1269 cu in	See table below.
System Weight	1.05 kg 2.31 lb	6.13 kg 13.5 lb	9.86 kg 21.74 lb	See table below.
Max Supported Weight (desktop orientation)	0	35 kg 77 lb	35 kg 77 lb	See table below.
Stand Dimensions	160x117x18.5mm	151.8x200x37.2mm	N/A	See table below.
Packaging (W x D x H)	497 x128 x223mm	15.71 x 19.65 x 9.06 in 399 x 499 x 230 mm	11.77 x 18.82 x 20.35 in 299 x 478 x 517 mm	See table below.
Shipping Weight	2.95 kg 6.49 lb	9 kg 19.82 lb	11.34 kg 24.98 lb	See table below.
Multipack Packaging (10 units)	20.28x16.54x25 in 515x420x636 mm			
Palletization Profile	18-units per layer 5 or 6 layers max depending on details of air freight 90 or 108 units per pallet depending on details of air freight 45.354 x 39.13 x 75.551 in, 1152 x 994 x 1919 mm (include pallet)	6 units per layer 10 layers max	8 units per layer 4 layers ax 32 units per pallet 1200*1000*2203 mm (include the pallet)	10-units per layer 4-layers max 40-units per pallet (sea) 1200 x 1000 x 2470 mm



ALL-IN-ONE WEIGHTS AND DIMENSIONS

Weight with Touch Panel

Product Weight Unboxed	Without Stand 13.29 lbs. 6.03kg	Adjustable Height Stand 19.24 lbs. 8.73kg	Recline Stand 21.12lbs 9.58kg
Shipping Weight Boxed	Without Stand 20.64-21.15lbs 9.4-9.45kg	Adjustable Height Stand 26.68 lbs. 12.1kg	Recline Stand 28.66-28.88 lbs. 13-13.1kg
Shipping Weight Pallet	Without Stand (10units) 233.73lbs 106kg	Adjustable Height Stand (10units) 293.21lbs 133 kg	Recline Stand (10units) 313.06lbs 142kg

Weight without Touch Panel

Product Weight Unboxed	Without Stand 13.51-13.62 lbs. 6.13-6.18kg	Adjustable Height Stand 19.46-19.68lbs 8.93 kg	Recline Stand 21.34-21.44 lbs. 9.68-9.73kg
Shipping Weight Boxed	Without Stand 20.86-21.06lbs 9.5-9.55kg	Adjustable Height Stand 26.89-27.12 lbs. 12.2-12.3 kg	Recline Stand 28.88lbs 13.1kg
Shipping Weight Pallet	Without Stand 21.2 x 2.12 x 13.46 in 539.6 x 53.8 x 341.79 mm	Adjustable Height Stand 0 degrees 21.2 x 7.1 x 18.4 in 539.6 x 180.28 x 467.7 mm	Recline Stand 0 degrees 21.2 x 10.3 x 10.63 in 539.6 x 261.8 x 269.98 mm





Dimensions (W x D x H)

Product	Without Stand	Adjustable Height	Recline Stand
Dimensions	21.2 x 2.12 x 13.46 in	Stand 0 degrees	0 degrees
	539.6 x 53.8 x 341.79	21.2 x 7.1 x 18.4 in	21.2 x 10.3 x 10.63 in
	mm	539.6 x 180.28 x 467.7	539.6 x 261.8 x
		mm	269.98 mm

Shipping Dimensions

Shipping Dimensions Boxed	27.17 x 10.08 x 21.46(H) in 690 x 256 x 545(H) mm	Stand 27.17 x 10.08 x 26.22(H) in	Recline Stand 27.17 x 10.08 x 26.22(H) in 690 x 256 x 666(H) mm
Shipping Dimensions Pallet	(10 units) 47.24 x 39.37 x 24.02(H) in 1200 x 1000 x 610(H)	Stand (10 units) 47.24 x 39.37 x 28.94(H) in 1200 x 1000 x 735(H)	Recline Stand (10 units) 47.24 x 39.37 x 28.94(H) in 1200 x 1000 x 735(H) mm



Technical Specifications – Miscellaneous Features

MISCELLANEOUS FEATURES

Management Features

- Advanced Configuration and Power Management Interface (ACPI). Allows the system to wake from a low power mode.
 Controls system power consumption, making it possible to place individual cards and peripherals in a low-power or powered-off state without affecting other elements of the system.
- Intel® Wired for Management support; industry wide initiative to make Intel® architecture based PCs, servers and mobile computers more inherently manageable out-of-the-box and over the network
- Dual State Power Button; acts as both an on/off button and a suspend-to-sleep button

Serviceability Features

- Dual colored power LED on front of computer to indicate either normal or fault condition
- Diagnostic LED Explanation Table:
 - Power LED will blink red 2 to 5 times, then blink white 2 or more times, then repeat (with beep tones for each blink initially):
 - 2 red + 2 white User must provide file for BIOS recovery (USB storage typically)
 - 2 red + 3 white User must enter a key sequence to proceed with recovery by policy
 - 2 red + 4 white BIOS recovery is in progress
 - 3 red + 2 white Memory could not be initialized
 - 3 red + 3 white Graphics adaptor could not be found
 - 3 red + 4 white Power supply failure / not connected
 - 3 red + 5 white Processor not installed
 - 3 red + 6 white Current processor does not support an enabled feature
 - 4 red + 2 white Processor has exceeded its temperature threshold / system thermal shutdown
 - 4 red + 3 white System internal temperature has exceeded its threshold
 - 5 red + 2 white System controller firmware is not valid
 - 5 red + 3 white System controller detected BIOS is not executing
 - 5 red + 4 white BIOS could not complete initialization / PCA failure
 - 5 red + 5 white System controller rebooted the system after a health or recovery timer triggered
- HP PC Hardware Diagnostics UEFI:
 - This utility enables hardware level testing outside the operating system on many components. The diagnostics can be invoked by pressing F2 at POST, and is available as a download from HP Support
- System/Emergency ROM
- Flash ROM
- CMOS Battery Holder for easy replacement
- Flash Recovery with Video Configuration Record Software 5 Aux Power LED on System PCA
- Processor ZIF Socket for easy Upgrade
- Over-Temp Warning on Screen (Requires IM Agents)
- Clear Password Jumper
- DIMM Connectors for easy Upgrade
- Clear CMOS Button
- NIC LEDs (integrated) (Green & Amber)
- Dual Color Power and HD LED To Indicate Normal Operations and Fault Conditions
- Color coordinated cables and connectors
- Tool-less Hood Removal
- Front power switch
- System memory can be upgraded without removing the system board or any internal components
- Tool-less Hard Drive, CD & Diskette Removal (For MT, SFF, and DM only)
- Green Pull Tabs, and Quick Release Latches for easy Identification



Technical Specifications – Miscellaneous Features

Additional Features	Description
Tower Orientation	Product can be oriented as either a desktop (horizontal) or a tower (vertical) for MT, SFF, and DM only
Drive Lock	Implementation of the industry standard ATA Security feature set. When enabled, it prevents software access to user data on the drive until one or two user-defined passwords are provided.
Boot Sectors Protection	MBR and GPT sectors of the hard drive are critical to booting the operating system. By saving the MBR or GPT data (depending on the how the OS was installed), the BIOS will be able to monitor for changes and allow the user to override them with the backup copy at boot-up.
Drive Protection System	DPS Access through F10 Setup during Boot
	A diagnostic hard drive self- test. It scans critical physical components and every sector of the hard drive for physical faults and then reports any faults to the user
	Running independently of the operating system, it can be accessed through a Windows-based diagnostics utility or through the computer's setup procedure. It produces an evaluation on whether the hard drive is the source of the problem and needs to be replaced
	The system expands on the Self-Monitoring, Analysis, and Reporting Technology (SMART), a continuously running systems diagnostic that alerts the user to certain types of failures
SMART Technology (Self-Monitoring, Analysis and Reporting Technology)	Allows hard drives to monitor their own health and to raise flags if imminent failures were predicted
SMART I - Drive Failure Prediction	Predicts failures before they occur. Tracks fault prediction and failure indication parameters such as re-allocated sector count, spin retry count, calibration retry count
SMART II - Off-Line Data Collection	By avoiding actual hard drive failures, SMART hard drives act as "insurance" against unplanned user downtime and potential data loss from hard drive failure
SMART III - Off-Line Read Scanning with Defect Reallocation	IOEDC: I/O Error Detection Circuitry
SMART IV - End-to-End CRC for hard drives	Detects errors in Read/Write buffers on HDD cache RAM



Technical Specifications – After Market Options

AFTER MARKET OPTIONS

Graphics Solutions	<u>DM</u>	<u>SFF</u>	TWR	<u>AiO</u>	Part Number
AMD® Radeon™ RX 550 4GB 2DP Card			Х		3TK71AA
AMD® Radeon™ R7 430 2GB 2DP Card		Х	Х		3MQ82AA
HP DisplayPort To HDMI True 4k Adapter	Х	Х	Х	Х	2JA63AA
HP DVI Cable Kit	Х	Х	Х	Х	DC198A
HP HDMI Standard Cable Kit	Х	Х	Х	Х	T6F94AA
HP DisplayPort Cable Kit	Х	Х	Х	Х	VN567AA
HP DisplayPort To VGA Adapter	Х	Х	Х	Х	AS615AA
HP DisplayPort To DVI-D Adapter	Х	Х	Х	Х	FH973AA

Desktop Mini Accessories	<u>DM</u>	Part Number
HP Desktop Mini G4 Port Cover Kit	X (95W and discrete GPU skus not supported)	1ZE52AA
HP G4 Mini 2.5-inch SATA Drive Bay Kit	X (95W and discrete GPU skus not supported, cannot use in conjunction with Thunderbolt 3 and Fiber NIC)	3TK91AA
HP Desktop Mini LockBox V2	X (95W and discrete GPU skus not supported)	3EJ57AA
HP Desktop Mini 500GB HDD/I/O Expansion Module	X (Either one)	K9Q82AA
HP Desktop Mini DVD-Writer ODD Expansion Module		K9Q83AA
HP Desktop Mini I/O Expansion Module		K9Q84AA
HP Desktop Mini Security/Dual VESA Sleeve v2	X (95W and discrete GPU skus not supported)	2JA32AA
HP Desktop Mini Vertical Chassis Stand	X	G1K23AA
HP DM VESA Power Supply Holder Kit	X (95W and discrete GPU skus not supported) *Must use with Dual VESA Sleeve V2	1RL87AA

Data Storage Drives	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	Part Number
HP 256GB SATA TLC Non-SED Solid State Drive	X (95W and discrete GPU skus not supported, cannot use in conjunction with Thunderbolt 3 and Fiber NIC)	х	x	x	P1N68AA
HP PCIe NVME TLC 256GB SSD M.2 Drive	X	X	Х	Х	1CA51AA
HP PCIe NVME TLC 512GB SSD M.2 Drive	X	X	Х	X	X8U75AA
HP PCIe NVME TLC 512GB SSD PCIe Drive		X	Х		Z4L70AA
HP 500GB 7200PRM SATA 6.0Gb/s 3.5" Hard Drive		х	х		QK554AA
HP 1TB 7200rpm SATA 6Gb/s 3.5" Hard Drive		х	х		QK555AA
HP SATA SuperMulti JB Drive			Х		QS208AA
HP 9.5mm Slim Removable SATA 500GB		X	Х	Х	T7G14AA
HP 9.5mm G4 8/6/4 SFF G4 400 SFF/MT DVD Writer		Х			1CA53AA



Technical Specifications – After Market Options

Input Devices	<u>DM</u>	<u>SFF</u>	TWR	<u>AiO</u>	<u>Part</u> <u>Number</u>
HP USB (Grey) SmartCard CCID Keyboard		Х	Х		J7H70AA
HP USB Antimicrobial Business Slim Keyboard and Mouse (China Only)		х	Х	Х	Z9H50AA
HP USB Business Slim CCID SmartCard Keyboard	X	Х	Х	Х	Z9H48AA
HP USB Business Slim (Grey) Keyboard (EMEA Only)	X	Х	Х	Х	Z9H49AA
HP USB Business Slim Keyboard	X	Х	Х	Х	N3R87AA
HP USB Business Slim Keyboard and Mouse and Mousepad		Х	Х	Х	T4E63AA
HP USB Collaboration Keyboard	X	Х	Х		Z9N38AA
HP USB Conferencing Keyboard				Х	K8P74AA
HP USB Keyboard	X	Х	X	X	QY776AA
HP USB Keyboard and Mouse Healthcare Edition	X	Х	Х	Х	1VD81AA
HP USB Premium Keyboard	X	Х	Х	Х	Z9N40AA
HP USB PS/2 Washable Keyboard & Mouse	X	Х	Х	Х	BU207AA
HP Wireless Business Slim Keyboard and Mouse	X	Х	Х	Х	N3R88AA
HP Wireless Collaboration Keyboard	X	Х	X		Z9N39AA
HP Wireless Premium Keyboard		Х	Х	Х	Z9N41AA
HP PS/2 Business Slim Keyboard		Х	Х		N3R86AA
HP USB Grey v2 Mouse (EMEA only)	Х	Х	Х	Х	Z9H74AA
HP USB Premium Mouse	X	Х	X	Х	1JR32AA
HP PS/2 Mouse		Х	Х		QY775AA
HP USB 1000dpi Laser Mouse	Х	Х	Х	Х	QY778AA
HP USB Hardened Mouse	X	Х	Х	X	P1N77AA
HP USB Mouse	X	Х	Х	X	QY777AA



Technical Specifications – After Market Options

System Memory	<u>DM</u>	SFF	TWR	<u>AiO</u>	<u>Part</u> <u>Number</u>
HP 4GB DDR4-2666 DIMM		Х	X		3TK85AA
HP 8GB DDR4-2666 DIMM		Х	Х		3TK87AA
HP 16GB DDR4-2666 DIMM		Х	X		3TK83AA
HP 4GB DDR4-2666 SODIMM	Х			Х	3TK86AA
HP 8GB DDR4-2666 SODIMM	X			X	3TK88AA
HP 16GB DDR4-2666 SODIMM	X			Х	3TK84AA

Multimedia Devices	<u>DM</u>	<u>SFF</u>	TWR	<u>AiO</u>	<u>Part</u> <u>Number</u>
HP Business Headset v2	X	Х	X	Х	T4E61AA
HP USB Business Speakers v2	Х	Х	X		N3R89AA

Security Devices	<u>DM</u>	<u>SFF</u>	TWR	<u>AiO</u>	<u>Part</u> <u>Number</u>
HP Solenoid Lock & Hood Sensor (SFF)		Х			J6L43AA
HP Solenoid Lock & Hood Sensor (MT)			Х		J6L42AA
HP Business PC Security Lock v3 Kit		Х	Х		3XJ17AA
HP Dual Head Keyed Cable Lock		Х	Х		T1A64AA
HP Keyed Cable Lock 10mm	X	Х	Х	X	T1A62AA
HP Master Keyed Cable Lock 10mm		X	X	X	T1A63AA

Stands and Accessories	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	<u>Part</u> <u>Number</u>
HP B300 PC Mounting Bracket	Х				2DW53AA
HP B500 PC Mounting Bracket	X				2DW52AA
HP Single Monitor Arm	x (95W and discrete GPU skus not supported)			Х	BT861AA
HP 800 G4/G4 AIO Adjustable Height Stand				х	Z9H66AA
HP 800 G4/G4 AIO Recline Stand				X	Z9H67AA

Technical Specifications – After Market Options

I/O Devices	<u>DM</u>	<u>SFF</u>	TWR	<u>AiO</u>	<u>Part</u> <u>Number</u>
HP DisplayPort Port Flex IO	x (discrete GPU skus not supported)	X	х		3TK72AA
HP Fiber NIC Port Flex IO	x (95W and discrete GPU skus not supported)				3TK73AA
HP HDMI Port Flex IO (400/600/800)	x (discrete GPU skus not supported)	X	х		3TK74AA
HP Thunderbolt 3.0 Port Flex IO	x (95W and discrete GPU skus not supported)				3TK77AA
HP Thunderbolt 3.0 PCIe Card		X	Х		4CX35AA
HP Type-C™ USB 3.1 Gen2 Port Flex IO	x (discrete GPU skus not supported)	Х	х		3TK78AA
HP Type-C™ USB 3.1 Gen2 Port with PD Flex IO	x (65W & 95W and discrete GPU skus not supported)				3TK79AA
HP VGA Port Flex IO	x (discrete GPU skus not supported)	Х	Х		3TK80AA
HP Serial Port Flex IO	x (discrete GPU skus not supported)				3TK76AA
HP Internal Serial Port (600/705/800)		X	Х		3TK82AA
HP PCIe x1 Parallel Port Card		X	X		N1M40AA
HP 800/600/400 G4 Serial/ PS/2 Adapter		X	X		1VD82AA

Communication Devices	<u>DM</u>	<u>SFF</u>	TWR	<u>AiO</u>	<u>Part</u> <u>Number</u>
Intel® 9260 802.11ac non-vPro™ PCIe x1 Card		х	Х		3TK89AA
Realtek 8822BE 802.11ac PCIe x1 Card		Х	X		3TK90AA

Intel® Optane Memory	<u>DM</u>	<u>SFF</u>	TWR	<u>AiO</u>	<u>Part</u> <u>Number</u>
Intel® Optane Memory 16GB (Cache)	X	Х	Х	Х	1WV97AA

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HP EliteDesk 800 G4 and HP EliteOne 800 G4 Business Desktops PCs

QuickSpecs

Change Log

Date	Version History	Action	Description of Change
June 6, 2018	From v1 to v2	Add	Environmental section
June 15, 2018	From v2 to v3	Add	Adjustable Height and Recline Stand
June 19, 2018	From v3 to v4	Update	Environmental specs for micro tower buisiness
June 19, 2018	From v4 to v5	Update	Environmental Tab for Non-Touch All-in-One Business PC and Touch All-in-One Business PC
June 20, 2018	From v5 to v6	Update	Environmental tabs
June 20, 2018	From v6 to v7	Update	Weights & Dimensions

