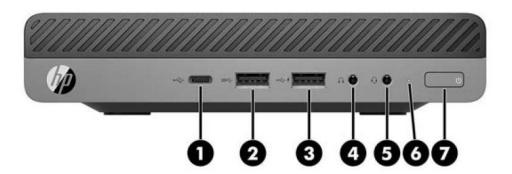
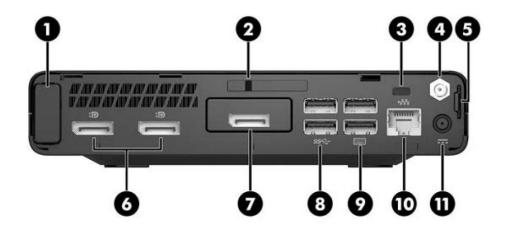
HP EliteDesk 800 G3 Desktop Mini Business PC



- 1. USB Type-C[™] charging port
- 2. USB 3.1 Gen 1 port (5 Gbit/s data speed)
- 3. USB 3.1 Gen 1 charging port (5 Gbit/s data speed)
- 4. Headphone connector

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

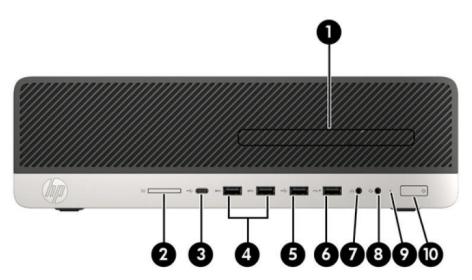
HP EliteDesk 800 G3 Desktop Mini Business PC



- 1. Antenna cover
- 2. Cover lock switch
- 3. Cable lock slot
- 4. External antenna connector
- 5. Padlock loop
- 6. (2) Dual-Mode DisplayPort™ 1.2 (DP++)
 - Not Shown
- Slots (1) internal M.2 2230 connector for optional wireless NIC
 - (1) internal M.2 SSD storage (2230 or 2280 connector)
- Bays (1) 2.5" internal storage drive bay
- VESA Support for VESA 100 mounting system on bottom of PC chassis

- 7. Choice of port (DisplayPort™ 1.2, HDMI, VGA, Serial or USB-C™) (USB-C™ option has alt mode DisplayPort™ 1.2 or 15W output)
- 8. (2) USB 3.1 Gen 1 (5 Gbit/s data speed) (black)
- (2) USB 3.1 Gen 1 (5 Gbit/s data speed) (black), allows for wake from S4/S5 with keyboard/mouse when connected and enabled in BIOS
- 10. RJ-45 Network connector
- 11. Power connector

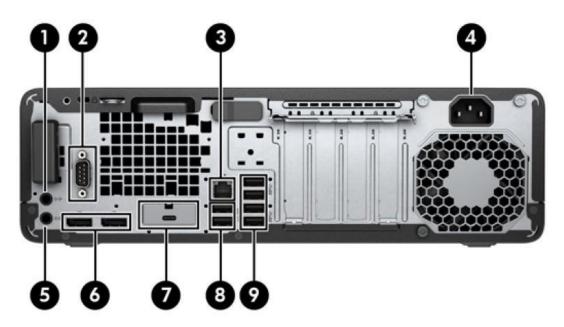
HP EliteDesk 800 G3 Small Form Factor Business PC



- 1. Slim optical drive (optional)
- 2. SD 4 Card Reader (optional)
- 3. USB Type-C™ charging port
- 4. (2) USB 3.1 Gen 1 ports (5 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 G3 Small Form Factor Business PC



- 1. Audio-in connector
- 2. Optional serial port
- 3. RJ-45 (network) jack
- 4. Power cord connector
- Audio-out connector for powered audio devices

- 6. Dual-Mode DisplayPort™ 1.2 (DP++) (2)
- 7. Optional port (DisplayPort™ 1.2, HDMI, VGA or USB-C™) (USB-C™ option has alt mode DisplayPort™ 1.2 or 15W output)
- 8. USB 2.0 ports with wake from S4/S5 (2)
- 9. USB 3.1 Gen 1 x ports (4) (5 Gbit/s data speed)

NOTE: Your model may have additional optional ports available.

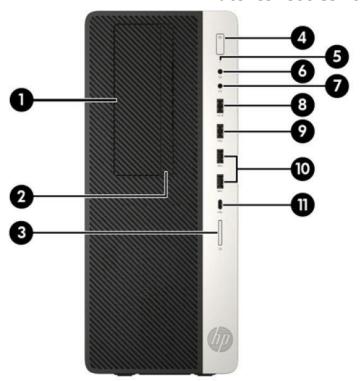
NOTE: The serial port is no longer standard to the chassis but is available as an option. A second serial port and PS/2 port PCIe combination are available.

Not Shown

- Slots (2) PCI Express x16 graphics connectors; one wired as an x4
 - (2) PCI Express x1 accessory connectors
 - (1) 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

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

HP EliteDesk 800 G3 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. Hard drive activity light
- 6. Universal Audio Jack with CTIA headset support
- 7. Headphone connector
- 8. USB 2.0 port (fast charging port)
- 9. USB 2.0 port
- 10. USB 3.1 Gen1 x ports (2)
- 11. USB Type-C™ charging port

NOTE: Your model may have additional optional ports available.

- 1. Audio-out jack for powered audio devices
- 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)
- 4. USB 2.0 ports with wake from S4/S5 (2)
- 5. USB 3.1 Gen1 x ports (4)
- 6. Cable lock slot
- 7. RJ-45 (network) jack
- 8. Optional serial port
- 9. Power cord connector
- 10. Audio-in jack

NOTE: The serial port is no longer standard to the chassis but is available as an option. A second serial port and PS/2 port PCIe combination are available.

Not Shown

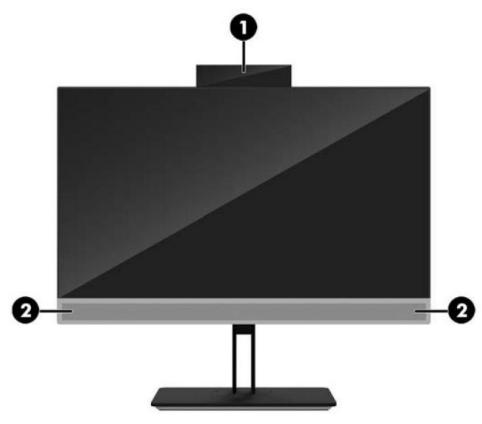
Slots (2) PCI Express x16 graphics connectors; one wired as a x4

- (2) PCI Express x1connectors
- (1) 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 bays (convertible to 2.5")
- (1) 5.25" half-height drive bay
- (1) 9.5mm slim optical drive bay

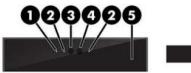
HP EliteOne 800 G3 All-in-One Business PC (23.8" Touch and Non-Touch)



1. Webcam

2. Speakers (optional))

Infrared (IR) webcam (optional)







- 1. Webcam light
- 2. IR light

- 3. Full High Definition (FHD) webcam
- 4. IR webcam
- Rear webcam adjustment wheel
- 6. Digital microphones
- 7. Webcam light
- 8. FHD webcam

Full High Definition (FHD) webcam (optional)



- 1. Webcam light
- 2. FHD webcam
- 3. Digital microphones

HP EliteOne 800 G3 All-in-One Business PC



- 1. Optical disc drive (optional)
- 2. Optical disc drive eject button (optional)
- 3. Universal Audio Jack with CTIA headset support
- 4. Headphone connector
- 5. Fingerprint reader (Touch model only)

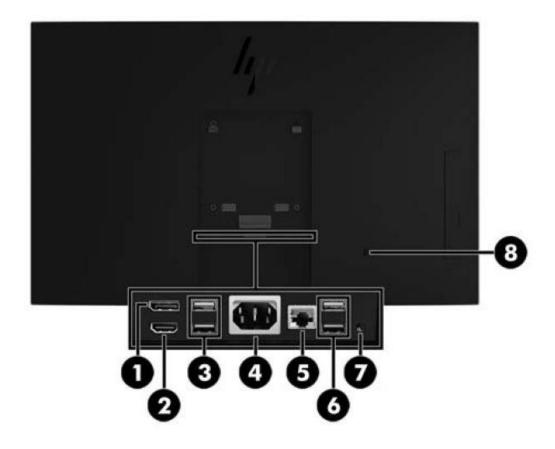


Bottom components

- 1. USB 3.1 Gen 1 Type-A port (5 Gbit/s data speed)
- 2. USB 3.1 Gen 1 Type-A (charging) port (5 Gbit/s data speed)
- 3. SD card reader 4.0 (optional)

- 4. USB 3.1 Type-C Gen 1 port (5 Gbit/s data speed)
- 5. Hard drive activity LED
- 6. Dual-state power button

HP EliteOne 800 G3 All-in-One Business PC



REAR/PORTS (BEHIND SECURITY COVER)

- Dual-Mode DisplayPort™ 1.2 (DP++)
- 2. HDMI connector
- 3. USB 3.1 Gen 1 Type-A ports (2) (5 Gbit/s data speed)
- 4. Power connector

- 5. RJ-45 (network) jack
- 6. USB 3.1 Gen 1 Type-A ports (2) (5 Gbit/s data speed)
- 7. Audio line-out connector
- 8. Security lock slot

Not Shown

Slots (1) internal M.2 PCIe x1 connector for optional wireless NIC

(2) internal M.2 PCIe x4 connector for optional Turbo Drive G2 SSD

Bays (1) 2.5" internal storage drive bay

VESA Support for VESA 100 mounting system on bottom of PC chassis*

*Mounting hardware sold separately (see Accessories section).

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

AT A GLANCE

- Choice of four form factors: Tower, Small Form Factor, Desktop Mini, and All-in-One (touch/non touch)
- New commercial ID on all form factors
- Intel® Q270 chipset supporting Intel® 7th generation Core™ processors and Intel® 6th generation Core™ processors, featuring integrated Intel® HD Graphics and Intel® vPro™ Technology (available with Core i5 and Core i7 processors)¹
- Processor support up to 65W on SFF, DM and AiO; up to 91W on the 800 G3 TWR
- Support for Windows 10 to Windows 7 Downgrade with Intel® 6th Generation processors
- Intel® HD graphics or optional discrete graphics (except desktop mini)
- Intel® Ethernet Connection I219LM GbE LOM integrated network connection
- DDR4 Synchronous Dynamic Random Access Memory (SDRAM)
- 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 (except AiO models), DisplayPort™ 1.2, or USB Type-C™ with DisplayPort™ 1.2 (see Ports section or pages 1-8 for port availability by platform).
- Configurable 3rd rear I/O video port (HDMI, DisplayPort™ 1.2, VGA, Type-C with DisplayPort™ 1.2) (except AiO)
- Audio by Bang and Olufsen on the 800 G3 All-in-One
- TWR and SFF models can be configured with multiple data drives in a RAID array
- HP Sure Start Gen3
- HP Manageability Integration Kit
- HP WorkWise
- Intel® Unite™ available with EliteDesk 800 G3 DM (35W/65W)
- High efficiency energy saving power supply options
- ENERGY STAR® certified. EPEAT® Gold registered where applicable/supported. Registration may vary by country. See
 www.epeat.net for registration status by country.
- CCC, CECP and SEPA Certified
- Optimized for Skype for Business; 800 G3 AiO is Skype for Business certified
- TCO Edge for AiO; TCO certified for DM
- PC chassis and all internal components and modules are manufactured with low halogen content³
- Arsenic-free
- Dust filter available for all platforms (except EliteDesk 800 G3 DM 65W)
- 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

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. 64-bit computing system required. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering is not a measurement of higher performance.
- 2. DisplayPort™ multi-stream monitors 'daisy-chained' together.
- 3. External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.

OPERATING SYSTEMS

Preinstalled

Windows 10 Pro 64¹

Windows 10 Pro 64 (National Academic License)3

Windows 10 Home 641

Windows 10 Home Single Language 641

Windows 7 Professional 64 (available through downgrade rights from Windows 10 Pro)^{2, 4}

Windows 7 Professional 32 (available through downgrade rights from Windows 10 Pro)^{2, 4}

Pre-installed (other)

FreeDOS 2.0



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

NeoKylin Linux® 64

Web-supported only

Windows 10 Enterprise 64¹ Windows 7 Enterprise 64⁴

NOTE: 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

- 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. This system is preinstalled with Windows 7 Pro software and also comes with a license and media for Windows 10 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.
- 3. 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.
- 4. Only available with 6th generation (Intel) processors.

CHIPSET

Intel® Q270

PROCESSORS*, **

*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

**Note: 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. 64-bit computing system required. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering is not a measurement of higher performance.

Intel® 7th Generation Core™ i7 Processors	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® Core™ i7-7700K Processor 91W Up to 4.5 GHz Max. Turbo Frequency (4.2 GHz base frequency) 8 MB cache, 4 cores, 8 threads Intel® HD Graphics 630 Supports DDR4 memory up to 2400 MT/s data rate			х	
Intel® Core™ i7-7700 Processor 65W Up to 4.2 GHz Max. Turbo Frequency (3.6 GHz base frequency) 8 MB cache, 4 cores, 8 threads	X (65W model only)	Х	х	х



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

	()	-	,,	
Intel® HD Graphics 630 Supports DDR4 memory up to 2400 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)				
Intel® Core™ i7-7700T Processor 35W Up to 3.8 GHz Max. Turbo Frequency (2.9 GHz base frequency) 8 MB cache, 4 cores, 8 threads Intel® HD Graphics 630 Supports DDR4 memory up to 2400 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)	X (35W model only)			
Intel® 7th Generation Core™ i5 Processors	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® Core™ i5-7500 Processor 65W Up to 3.8 GHz Max. Turbo Frequency (3.4 GHz base frequency) 6 MB cache, 4 cores, 4 threads Intel® HD Graphics 630 Supports DDR4 memory up to 2400 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)	X (65W model only)	X	X	X
Intel® Core™ i5-7500T Processor 35W Up to 3.3 GHz Max. Turbo Frequency (2.7 GHz base frequency) 6 MB cache, 4 cores, 4 threads Intel® HD Graphics 630 Supports DDR4 memory up to 2400 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)	X (35W model only)			
Intel® Core™ i5-7600 Processor 65W Up to 4.1 GHz Max. Turbo Frequency (3.5 GHz base frequency) 6 MB cache, 4 cores, 4 threads Intel® HD Graphics 630 Supports DDR4 memory up to 2400 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)	X (65W model only)	X	X	Х
Intel® Core™ i5-7600T Processor 35W Up to 3.7 GHz Max. Turbo Frequency (2.8 GHz base frequency) 6 MB cache, 4 cores, 4 threads Intel® HD Graphics 630 Supports DDR4 memory up to 2400 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)	X (35W model only)			

Intel® 7th Generation Core™ i3 Processors



<u>SFF</u>

TWR

<u>AiO</u>



Intel® Core™ i3-7100 Processor	X (CENTAGE 45)	X	X	X
51W	(65W model			
3.9 GHz base frequency	only)			
3 MB cache, 2 cores, 4 threads Intel® HD Graphics 630				
Supports DDR4 memory up to 2400 MT/s data rate				
Intel® Core™ i3-7100T Processor	X X			
35W 3.4 GHz base frequency	(35W model only)			
3 MB cache, 2 cores, 4 threads	Unity/			
Intel® HD Graphics 630				
Supports DDR4 memory up to 2400 MT/s data rate				
Intel® Core™ i3-7300 Processor	X	Х	Х	Х
51W	(65W model	^	^	^
4.0 GHz base frequency	only)			
4 MB cache, 2 cores, 4 threads	Unity/			
Intel® HD Graphics 630				
Supports DDR4 memory up to 2400 MT/s data rate				
	X			
<u>Intel® Core™ i3-7300T Processor</u> 35W	(35W model			
3.5 GHz base frequency	only)			
3 MB cache, 2 cores, 4 threads				
Intel® HD Graphics 630				
Supports DDR4 memory up to 2400 MT/s data rate				
Intel® Core™ i3-7320 Processor	х	Х	Х	Х
51W	(65W model	^	^	^
4.1GHz base frequency	only)			
4 MB cache, 2 cores, 4 threads				
Intel® HD Graphics 630				
Supports DDR4 memory up to 2400 MT/s data rate				
Intel® 7th Generation Pentium® Processors	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® Pentium® G4560 Processor	X	Х	Х	Х
54W	(65W model			
3.5 GHz Base Frequency	only)			
3 MB cache, 2 cores, 4 threads				
Intel® HD Graphics 610				
Supports DDR4 memory up to 2400 MT/s data rate				
Intel® Pentium® G4560T Processor	Х			
35W	(35W model			
2.9 GHz Base Frequency	only)			
3 MB cache, 2 cores, 4 threads				
Intel® HD Graphics 610				
Supports DDR4 memory up to 2400 MT/s data rate				
Intel® Pentium® G4600 Processor	Х	Х	Х	Х
51W	(65W model			
3.6 GHz Base Frequency	only)			
3 MB cache, 2 cores, 4 threads				
Intel® HD Graphics 630				
Supports DDR4 memory up to 2400 MT/s data rate				



Standard Features and Configurable Components	dvallability 11	idy vary by	country)	
Intel® Pentium® G4600T Processor 35W 3.0 GHz Base Frequency 3 MB cache, 2 cores, 4 threads Intel® HD Graphics 630 Supports DDR4 memory up to 2400 MT/s data rate	X (35W model only)			
Intel® Pentium® G4620 Processor 51W 3.7 GHz Base Frequency 3 MB cache, 2 cores, 4 threads Intel® HD Graphics 630 Supports DDR4 memory up to 2400 MT/s data rate	X (65W model only)	х	Х	Х
Intel® 7th Generation Celeron® Processors	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® Celeron ® G3930 Processor 51W 2.9 GHz Base Frequency 2 MB cache, 2 cores, 2 threads Intel® HD Graphics 610 Supports DDR4 memory up to 2133 MT/s data rate	X (65W model only)	X	X	X
Intel® Celeron ® G3930T Processor 35W 2.7 GHz Base Frequency 2 MB cache, 2 cores, 2 threads Intel® HD Graphics 610 Supports DDR4 memory up to 2133 MT/s data rate	X (35W model only)			
Intel® Celeron ® G3950 Processor 51W 3.0 GHz Base Frequency 2 MB cache, 2 cores, 2 threads Intel® HD Graphics 610 Supports DDR4 memory up to 2133 MT/s data rate	X (65W model only)	Х	х	Х
Intel® 6th Generation Core™ i7 Processors	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® Core™ i7-6700 Processor 65W Up to 4.0 GHz Max. Turbo Frequency (3.4 GHz base frequency) 8 MB cache, 4 cores, 8 threads Intel® HD Graphics 530 Supports DDR4 memory up to 2133 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)	X (65W model only)	X	Х	Х
Intel® Core™ i7-6700T Processor 35W Up to 3.6 GHz Max. Turbo Frequency (2.8 GHz base frequency) 8 MB cache, 4 cores, 8 threads Intel® HD Graphics 530 Supports DDR4 memory up to 2133 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)	X (35W model only)			



Intel® 6th Generation Core™ i5 Processors

Intel® Core™ i5-6500 Processor 65W Up to 3.6 GHz Max. Turbo Frequency (3.2 GHz base frequency) 6 MB cache, 4 cores, 4 threads Intel® HD Graphics 530 Supports DDR4 memory up to 2133 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)	X (65W model only)	X	X	X
Intel® Core™ i5-6500T Processor 35W Up to 3.1 GHz Max. Turbo Frequency (2.5 GHz base frequency) 6 MB cache, 4 cores, 4 threads Intel® HD Graphics 530 Supports DDR4 memory up to 2133 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)	X (35W model only)			
Intel® Core™ i5-6600 Processor 65W Up to 3.9 GHz Max. Turbo Frequency (3.3 GHz base frequency) 6 MB cache, 4 cores, 4 threads Intel® HD Graphics 530 Supports DDR4 memory up to 2133 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)	X (65W model only)	X	X	X
Intel® Core™ i5-6600T Processor 35W Up to 3.5 GHz Max. Turbo Frequency (2.7 GHz base frequency) 6 MB cache, 4 cores, 4 threads Intel® HD Graphics 530 Supports DDR4 memory up to 2133 MT/s data rate Supports Intel® vPro™ Technology and Intel® Stable Image Platform Program (SIPP)	X (35W model only)			
Intel® 6th Generation Core™ i3 Processors	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® Core™ i3-6100 Processor 51W 3.7 GHz base frequency 3 MB cache, 2 cores, 4 threads Intel® HD Graphics 530 Supports DDR4 memory up to 2133 MT/s data rate	X (65W model only)	Х	Х	Х
Intel® Core™ i3-6100T Processor 35W 3.2 GHz base frequency 3 MB cache, 2 cores, 4 threads Intel® HD Graphics 530 Supports DDR4 memory up to 2133 MT/s data rate	X (35W model only)			



HP EliteDesk 800 G3 and HP EliteOne 800 G3 Business Desktops PCs

QuickSpecs

Standard Features and Configurable Components	(availability r	nay vary by	country)	



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

MEMORY*

Form Factor	Туре	Maximum	Number of Slots
Desktop Mini	DDR4-2400 (Transfer rates up to 2400 MT/s)	32 GB	2 SODIMM
Small Form Factor	DDR4-2400 (Transfer rates up to 2400 MT/s)	64 GB	4 DIMM
Tower	DDR4-2400 (Transfer rates up to 2400 MT/s)	64 GB	4 DIMM
All-in-One	DDR4-2400 (Transfer rates up to 2400 MT/s)	32 GB	2 SODIMM

Memory modules available. Memory options vary by platform. All slots are customer accessible / upgradeable.

- 2,048 MB (2048 MB x 1) (AMO only)
- 4,096 MB (4096 MB x 1)
- 8,192 MB (8192 MB x 1)
- 16,384 MB (16,384 MB x 1)

Memory modules support data transfer rates up to 2400 MT/s; actual data rate is determined by the system's configured processor. See processor specifications for supported memory data rate.

STORAGE*

2.5 inch 7.2k RPM Hard Disk Drives	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
1TB SATA	Х	Х	Х	Х
500GB SATA	Х	Х	Х	Х
3.5" SATA 7.2k RPM Hard Disk Drives	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
500GB 7200RPM 3.5in		Х	Х	
1TB 7200RPM 3.5in		Х	Х	
2TB 7200RPM 3.5in		Х	Х	
2.5 inch Solid State Hybrid Drives (SSHD) 1TB 5400RPM 2.5in 8GB Hybrid	<u>DM</u> X	SFF X	<u>TWR</u>	<u>AiO</u> X
500GB 5400RPM 2.5in 8GB Hybrid	Х	Х	Х	Х
3.5 inch Solid State Hybrid Drives (SSHD)	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
1TB 7200RPM 3.5in SSHD (SSHD)		Х	Х	
2.5 inch Self-encrypting Drives (SED HDD)	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
500GB 5400RPM 2.5in Federal Information Processing Standard (FIPS) SED	Х	Х	Х	Х
500GB 7200RPM 2.5in SED 0PAL 2	Х	Х	Х	Х



^{*} Full availability of 4 GB or more of memory requires a 64-bit operating system. With Windows 32-bit operating systems, the amount of usable memory is dependent upon your configuration, so that above 3 GB all memory may not be available due to system resource requirements.

2.5 inch Self-encrypting Drives (SED SSD)	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
256GB TLC SED SSD OPAL 2 Drive	Х	Х	X	Х
512GB TLC SED SSD OPAL 2 Drive	Х	Х	Х	Х
256GB TLC SED SSD 2.5in Federal Information Processing Standard (FIPS) SED	Х	Х	Х	Х
512GB TLC SED SSD 2.5in Federal Information Processing Standard (FIPS) SED	Х	Х	Х	Х

PCIe NMVe SSD Drives	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP 256GB Turbo Drive G2 PCIe TLC SSD Drive	Х	Х	Х	Х
HP 512GB Turbo Drive G2 PCIe TLC SSD Drive	Х	Х	Х	Х
HP 1TB Turbo Drive G2 PCIe TLC SSD Drive	Х	Х	Х	Х

2.5 SATA SSD Drives	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP SATA 128GB SSD Drive	X	Х	X	Х
HP SATA 256GB SSD Drive	Х	Х	Х	X

^{*}For storage drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB of system disk is reserved for system recovery software.

^{**}NOTE: Desktop Mini 2nd HDD only available when 1ststorage drive is M2 drive.

Optical Disc Drives	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP 9.5mm G3 800/600 Tower DVD-Writer*			Х	
HP 9.5mm G3 800/600 Tower DVD-ROM			Х	
HP 9.5mm G3 800/600/400 SFF G4 400 Microtower DVD-Writer*		Х		
HP 9.5mm G3 800/600/400 SFF G4 400 Microtower DVD-ROM		Х		
HP 9.5mm AIO 800 G3 Slim DVD Writer*				Х
HP 9.5mm AIO 800 G3 Slim DVD-ROM				Х

^{*}HD-DVD discs cannot be played on this drive. No support for DVD-RAM. Actual speeds may vary. Don't copy copyright-protected materials. Double Layer discs can store more data than single layer discs. Discs burned with this drive may not be compatible with many existing single-layer DVD drives and players.

Removable	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP 9.5mm Slim Removable SATA 500GB		Х	Х	Х
HP 3.5" Removable SATA HDD Frame/Carrier			Х	

Media Card Reader (optional)*	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
SD 4 with 5-in-1 Interface from SD option to PCA is USB (Supports SD, SDXC, SDHC, UHS-I, UHS-II)		Х	Х	
SD 4 with 5-in-1 Interface from SD option to PCA is PCIe (Supports SD, SDXC, SDHC, UHS-I, UHS-II)				Х

^{*}Card sold separately



GRAPHICS

System Integrated Graphics	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® HD Graphics 530 (integrated on 6th gen Core i7/i5/i3 processors)	Х	Х	Х	Х
Intel® HD Graphics 630 (integrated on 7 th gen Core i7/i5/i3 processors and Pentium G4620, 4600, 4600T)	Х	Х	Х	Х
Intel® HD Graphics 610 (integrated on Pentium G4560, G4560T, Celeron G3950, G3930, G3930T)	Х	Х	Х	Х

Optional Discrete Graphics Solutions

(Optional; RX 460 AiO graphics and GT 730 1GB HDMI card must be configured at purchase; RX 480, GTX 1080 must be configured at purchase and will require the 500W PSU and will be available after launch.)

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
AMD Radeon™ R7 450 4GB FH PCIe x16*				
AMD Radeon™ RX 460 2GB FH PCIe x16*				
AMD Radeon™ RX 460 2GB GFX				Х
AMD Radeon™ RX 480 4GB FH PCIe x16*			Х	
NVIDIA® GeForce® GT 730 1GB PCIe x8 HDMI		X		
NVIDIA® GeForce® GT 730 2GB PCIe x8 DP		Χ		
NVIDIA® GeForce® GTX 1060 3GB FH PCIe x16*			Х	
NVIDIA® GeForce® GTX 1070 8GB FH PCIe x16*			Χ	
NVIDIA® GeForce® GTX 1080 8GB FH PCIe x16*			Х	

^{*}Requires 500W chassis

2 nd Graphics Cards	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
AMD Radeon™ R7 450 4GB FH PCIe x16 G5 2 ^{nd**}			X	
NVIDIA® GeForce® GT 730 1GB PCIe x8 HDMI 2nd***		X	Х	
NVIDIA® GeForce® GT 730 2GB PCIe x8 DP 2nd****		Χ	Х	

^{**}Available only with AMD Radeon™ R7 450.

Display (All-in-One models only)

23.8"diagonal IPS widescreen WLED backlit anti-glare LCD display Orientation designed to operate in portrait or landscape mode Non-touch or optional touch

Projected capacitive in-cell touch supports up to 10 touch-points

Display Panel	Type	IPS WLED Backlit LCD
	Touch Active Area (mm)	527.04 x 296.46 (FHD)
	Screen opening (mm)	535 x 313 (FHD)*
	Native Resolution (HxV)	1920 x 1080 (FHD)

Aspect ratio 16:9

Pixel pitch (HxV)(mm) 0.2475 x 0.2475 (FHD)

Contrast ratio (typical) 1000:1



^{***}Available only with NVIDIA® GeForce® GT730 1GB.

^{****}Available only with NVIDIA® GeForce® GT730 2GB.

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

Brightness (typical) 250nits (cd/m2)(FHD)

Viewing angle (typical) (HxV) 178 ° x 178 °

Backlight lamp life (to half brightness) 30,000 hours minimum

Color support Over 16 million colors (FHD)

Color gamut (typical) 72% Anti-glare Yes*

Default color temperature Warm (6500K)

Measured Response Time 12 ms
*Without Projected Capacitive Touch Panel

NOTE: All performance specifications represent the typical specifications provided by HP's

component manufacturers; actual performance may vary either higher or lower.

Webcams Pop-up Web Camera 2MP FHD webcam, Up to 30 frames/sec, Array

Microphone (Fixed 2Mp FHD 1080p)

IR Camera with rear-facing, 2nd 2MP

webcam

Dual Camera 480P IR+1080P RGB Fixed/2MP FHD

1080P Fixed

• Supporting Win10 Hello

Adjustable Height Stand:

eight Height - Vertical/Landscape

101mm (±2 mm)

Adjustment

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

WEBCAM & MIC (All-in-One models only)

Optional discrete dual microphone and Optional integrated 2MP webcam and IR sense (front) and 2MP webcam (rear); maximum resolution of 1920 x1080

Optional discrete dual microphone and Optional integrated 2MP webcam; maximum resolution of 19020 x1080

AUDIO/MULTIMEDIA

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Conexant CX20632 Audio Codec	X	X	X	
Conexant CX5001 codec- up to 24-bit PCM				X
Headset and Headphone front connectors (3.5mm)*	Х	Х	X	
Line-In rear connector (3.5mm) *		Х	Х	
Line-out rear connector (3.5mm)		Х	X	X



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

Headset side port (3.5mm)				X
Headphone side port (3.5mm)				X
Multi-streaming capable*	Х	Х	X	X
Internal speaker (standard)	Х	X	X	
High performance integrated stereo speakers				X
Bang & Olufsen Audio				X

^{*} The front headset connector supports CTIA style headsets and is re-taskable as a Line-in, Microphone-in or Headphone-out port. Rear audio input ports are re-taskable as a Line-in or Microphone-in port. External speakers must be powered externally. Multi-streaming can be enabled in the audio control panel to allow independent audio streams to be sent to/from the front and rear jacks or internal speakers. This allows for different audio applications to use separate audio ports on the system. For example, the front jacks could be used with a headset for a communications application while the rear jacks are being used with external speakers and a multimedia application.

Optional for Desktop Mini (optional and must be configured at purchase)

HP UC Speaker Phone*

HP UC Speaker Phone Mounting Bracket*

NETWORKING/COMMUNICATIONS*

Ethernet (RJ-45) Integrated	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® I219LM Gigabit Network Connection LOM (standard)	Х	Х	Х	Х
Ethernet (RJ-45) Optional				
Intel® Ethernet I210-T1 PCIe x1 Gb Network Interface Card (optional)		Χ	Χ	
Wireless LAN (optional and all except for 7265 for SFF/TWR must be bought at purchase)*				
Intel® 8265 802.11AC 2x2 Wi-Fi +Bluetooth® M.2 Combo Card vPro™ (802.11AC Wave 2 supported)	Х	Х	Х	Х
Intel® 8265 802.11AC 2x2 Wi-Fi +Bluetooth® M.2 Combo Card non-vPro™ (802.11AC Wave 2 supported)	Х	Х	Х	Х
Intel® 7265 802.11AC 2x2 Wi-Fi +Bluetooth® M.2 Combo Card non-vPro™	Х	Х	Х	Χ
Intel® 7260 802.11 a,b,g,n 2x2 M.2 Bluetooth® Disabled NIC**	Х			
Intel® 3168 802.11AC 2x2 Wi-Fi +Bluetooth® M.2 Combo Card non-vPro™	Х	Х	Х	Х

^{*} Wireless access point and Internet service required and not included. Availability of public wireless access points limited.

SLOTS

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Turbo Drive (M.2	1 ea. M.2 PCle x1-2230	1 ea. M.2 PCle x1-2230	1 ea. M.2 PCle x1-2230	1 ea. M.2 PCle x1-2230
PCIe)	(for WLAN)	(for WLAN)	(for WLAN)	(for WLAN)
	1 ea. M.2 PCIe x4-	1 ea. M.2 PCIe x4-2280	1 ea. M.2 PCIe x4-2280	1 ea. M.2 PCIe x4-2280
	2280/2230 (for storage)	(for storage)	(for storage)	(for storage)



^{*}Available after launch in June 2017

^{**}Wake on Lan feature is not available.

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

				1 ea. M.2 PCIe x4- 2280/2230 combo (for storage)
PCI Express x1 (v3.0)	N/A	2 ea. 2.5" low profile 6.6" length 10W max. power	2 ea. 4.2" full height 6.6" length 10W max. power	N/A
PCI Express x16 (v3.0) (wired as a x4)	N/A	1 ea. 2.5" low profile 6.6" length 35W max. power	1 ea. 4.2" full height 6.6" length 35W max. power	N/A
PCI Express x16 (v3.0)	N/A	1 ea. 2.5" low profile 6.6" length 35W max. power	1 ea. 4.2" full height 6.6" length 75W max. power	N/A

PORTS

I/O Ports – Standard

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
USB 2.0	N/A	2 (front) including 1 fast charging; 2 (rear)	2 (front) including 1 fast charging; 2 (rear)	N/A
USB 3.1 Gen1	2 (front) including 1 fast charging; 4 (rear)	2 (front); 4 (rear)	2 (front); 4 (rear)	2 (side) including 1 fast charging, 4 (rear)
USB Type-C™3.1 Gen1 port	1 (front); 1 (optional) (rear)	1 (front); 1 (optional) (rear)	1 (front); 1 (optional) (rear)	1 (side)
PS/2	N/A	Optional with PS/2 Serial card	Optional with PS/2 Serial card	N/A
Video	2 DisplayPort™ 1.2 with multi-stream 1 port (choice of DisplayPort™, HDMI, VGA or USB-C™) (USB-C™ option has alt mode DisplayPort™1.2 or 15W output)	2 DisplayPort™ 1.2 with multi-stream 1 Optional port (DisplayPort™ 1.2, HDMI, VGA or USB-C™) (USB-C™ option has alt mode DisplayPort™ 1.2 or 15W output)	2 DisplayPort™ 1.2 with multi-stream 1 Optional port (DisplayPort™1.2, HDMI, VGA or USB-C™) (USB-C™ option has alt mode DisplayPort™ 1.2 or 15W output)	1 DisplayPort™ 1.2 with multi-stream 1 HDMI
Audio	Front: 1 Headset and Headphone		Front: 1 Audio-out (headphone)/Audio-in (microphone) combo jack 1 Audio-out (headphone) jack Rear: 1 Audio-out jack for powered audio devices; 1 Audio-in jack	Side: Headset and Headphone (side) 3.5mm diameter
Network Interface	RJ-45	RJ-45	RJ-45	RJ-45

*Replaces 1 DisplayPort™ 1.2 NOTE: HDMI 2.0a with HDR

I/O Ports - Optional



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

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Serial (RS-232)	1 (optional)*	1 (optional)	1 (optional)	
Serial (RS-232) and (2) PS/2 combination**		1 (optional) (rear)	1 (optional) (rear)	

^{*}Replaces 1 Video optional port

I/O Ports — Internal ports

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
DM SATA storage connector	1	N/A	N/A	N/A
AiO SATA storage connector	N/A	N/A	N/A	2
Internal SATA storage connector(s)	N/A	3	5	N/A

BAYS

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
5.25" Half Height**	N/A	N/A	1 ea.	N/A
9mm Slim ODD	N/A	1 ea.	1 ea.	1 ea.
Secure Digital (SD) 4 Reader	N/A	1 ea.	1 ea.	1 ea.
2.5" internal storage drive	1 ea.	1 ea.	1 ea.	1 ea.
3.5" internal storage drive	N/A	2 ea.	2 ea.	N/A

^{**}The HP G2 5.25 ODD is also compatible with the G3 MT Chassis

KEYBOARDS AND POINTING DEVICES (optional)

Keyboards	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP Conferencing Keyboard	Х	Х	Х	Х
HP USB PS/2 Washable Keyboard*	Х	Х	Х	Х
HP USB Business Slim CCID SmartCard Keyboard	Х	Х	Х	Х
HP USB Business Slim Keyboard	Х	Х	Х	Х
HP PS/2 Business Slim Keyboard*		Х	Х	
HP USB Business Slim Keyboard (China only)	X	Χ	Х	X
HP USB Business Slim Grey Keyboard	Х	Х	Х	Х
Mice	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Mice HP PS/2 Mouse*	<u>DM</u>	SFF X	TWR X	<u>AiO</u>
	<u>DM</u> X		,	AiO X
HP PS/2 Mouse*		Х	X	
HP PS/2 Mouse* HP USB 1000dpi Laser Mouse	X	X	X	X
HP PS/2 Mouse* HP USB 1000dpi Laser Mouse HP Grey V2 Mouse	X X	X X	X. X. X.	X
HP PS/2 Mouse* HP USB 1000dpi Laser Mouse HP Grey V2 Mouse HP USB Mouse	X X X	X X X	X X	X X



^{*}This card comes with a Serial Port and 2 PS/2 ports (3 ports total)

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

Combo	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP Wireless Business Slim Keyboard and Mouse	Х	Х	Х	Х
HP USB Keyboard and Mouse (China only)	Х	Х	Х	Х
Other	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP Mouse Pad	Х	Х	Х	Х

^{*}Note Optional HP Internal Serial/PS/2 Ports is required to support this device.

ADAPTERS AND CABLES (optional)

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP DisplayPort™ 1.2 Cable	Х	Х	Х	Χ
HP DisplayPort™ 1.2 to DVI-D Adapter	Х	Х	Х	X
HP DisplayPort™ 1.2 to HDMI 4K Adapter	Х	Х	Х	Χ
HP DisplayPort™ 1.2 to VGA Adapter	Х	Х	Х	X
HP DVI Cable	Х	Х	Х	X
HP 700mm DisplayPort™ 1.2 Cable Kit	Х			
HP USB to Serial Port Adapter	Х			Χ

I/O DEVICES

Optional Ports (only one can be chosen) must be configured at purchase except for PCIe x1 cards.

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP DisplayPort™ 1.2 Port	Х	Х	Х	
HP Type-C Port	Х	Х	Х	
HP HDMI Port	Х	Х	Х	
HP VGA Port	Х	Х	Х	
HP Internal Serial Port*		Х*	X*	
HP Internal Serial/PS/2 Ports*		Х*	Х*	
HP PCIe x1 Parallel Port Card		Х	Х	
HP PCIe x1 SuperSpeed USB 3.1 Gen 2 Type-C Card		Х	Х	
HP EliteDesk 800 G3 Tower Dust Filter			Х	
HP EliteDesk 800 G3 SFF Dust Filter		Х		
HP G3 Mini Dust Filter**	Х			
HP EliteDesk 800 G3 AiO Dust Filter				X

^{*} Internal Serial Port and HP Internal Serial/PS/2 Ports can both be selected for TWR and SFF

AIO STANDS (optional)

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u> AiO</u>
HP EliteOne 800 G3 AiO Recline Stand				Х
HP EliteOne 800 G3 AiO Adjustable Height Stand				Х



^{**}Not available with 800 G3 DM 65W



DESKTOP MINI ACCESSORIES (optional)

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP Desktop Mini DVD-Writer ODD Expansion Module	Х			
HP Desktop Mini 500GB HDD/ I/O Expansion Module	Х			
HP Desktop Mini I/O Expansion Module	Х			
HP Desktop Mini Security/Dual VESA Sleeve	Х			
HP DM VESA Power Supply Holder	Х			
HP DM VESA Quick Deploy Adhesive	Х			
HP Desktop Mini Vertical Chassis Stand	Х			
HP Desktop Mini Port Cover Kit	Х			
HP Quick Release Kit	Х			Х
HP DM Antenna/Wiring WLAN Kit	Х			
HP PC Mounting Bracket for Monitors	Х			

SOFTWARE COMPONENTS AND APPLICATIONS WITH WINDOWS

BIOS

HP Sure Start Gen3¹
HP DriveLock | HP Automatic DriveLock
BIOS Update via Network
Master Boot Record Security
Power On Authentication
Secure Erase²
Absolute Persistence Module³
Pre-boot Authentication
HP LAN-WLAN Protection
HP Wireless Wakeup

Multi Media

CyberLink Power Media Player (select models only) CyberLink Power2Go (select models only)

Communication / Connectivity

Native Miracast Support⁴

HP Value Add Software

HP ePrint Driver + JetAdvantage⁵

HP Hotkey Support - CMIT

HP Recovery Manager

HP Recovery Disc Creator (Windows 7 only)

HP Jumpstart

HP Support Assistant

HP Noise Cancellation Software

HP Velocity

HP Notifications

3rd Party



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

Foxit PhantomPDF Express for HP (Windows 7 only)

Microsoft Products

Buy Office Bing Search Skype⁶

Manageability

HP Driver Packs⁷
HP SoftPaq Download Manager (SDM)
HP System Software Manager (SSM)⁷
HP BIOS Config Utility (BCU)⁷
HP Client Catalog⁷
HP Manageability & Integration Kit (MIK)8

Discover HP Touchpoint Manager¹¹

For more information on HP Client Management Solutions refer to: http://www.hp.com/go/clientmanagement

Client Security Software

LANDESK Management⁸

HP Client Security Suite Gen3

- HP Security Manager (including Credential Manager and Password Manager)
- HP Drive Lock
- HP Fingerprint Sensor (AiO Touch model only)
- HP Password Manager
- Absolute Persistence Module
- Power On Authentication

Microsoft Security Essentials⁹ (Windows 7 only) Microsoft Defender HP WorkWise (requires Bluetooth[®])¹⁰

Standard

Trusted Platform Module (TPM) 2.0 (Infineon SLB9670). Common Criteria EAL4+ Certified.

Downgradeable to TPM 1.2. Convertible to FIPS 140-2 Certified mode. (TPM 2.0 is not available for Win 7 32-bit.) Restrictions apply; contact your account manager for more details.

HP Fingerprint Reader (available only on 800 G3 AiO touch models)

For more information on HP Client Security Software Suite, refer to http://www.hp.com/go/clientsecurity.

- 1 Available on HP EliteDesk / EliteOne products equipped with Intel® 7th generation processors.
- 2 For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
- 3 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.
- 4 Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast
- 5 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). Requires optional broadband module. Broadband use requires separately purchased service contract. Check with service provider for coverage and availability in your area. Separately purchased data plans or usage fees may apply. Print times and connection speeds may vary.
- 6 Skype is not offered in China.



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

- 7 Not preinstalled, however available for download at http://www.hp.com/qo/clientmanagement
- 8 Subscription required.
- 9 Opt in and internet connection required for updates.
- 10 HP WorkWise smartphone app will soon be available as a free download on the App Store and Google Play. Requires Windows 10 Build 1607 or higher).
- 11 HP Touchpoint Manager requires purchase of a subscription and supports Android™, iOS and Windows 7 or higher operating systems and PCs, notebooks, tablets and smartphones from various manufacturers. Not available in all countries see www.hp.com/touchpoint for availability information

HP BIOS

Key features of the HP BIOS include:

- Deployment and manageability HP BIOS provides several technologies that help integrate the HP Elite 800 G3
 Business PC into the enterprise, such as PXE, remote configuration, remote control, and F10 Setup support for 14
 languages.
- Update your BIOS via the cloud or standardize on a BIOS version hosted on Enterprise network.
- Stability HP BIOS supports the HP stable product roadmap by releasing only critical BIOS changes to the factory and advanced change notification.
- UEFI specification 2.5
- Absolute Persistence agent For tracking and tracing services, available in select countries, separate software and purchase of a subscription is required.
- Thermal and power management The HP BIOS provides and enables thermal and power management technologies so component temperatures are managed for high reliability and to assist in operating the HP Business Desktop computer in any enterprise environment.
- Acoustic performance Industry leading acoustic emissions across the range of operating conditions.
- Serviceability HP BIOS provides diagnostic and detailed service information.
- Upgrades and recovery HP BIOS provides numerous ways to upgrade HP Business Desktop computers, including BIOS updates from within Windows (HPBIOSUPDREC), HP Client Manager, and fail-safe recovery. In addition, the HP BIOS Configuration Utility enables replication of BIOS settings within Windows while the Replicated Setup feature provides the same capability within F10 setup. The BIOS Configuration Utility is available from the support website.
- HP BIOS uses PKI signing of the BIOS for trusted BIOS upgrades and recovery.

Additional HP BIOS Features:

- Power-On password Helps prevent an unauthorized user from powering on the system.
- Administrator password Also known as the setup password, this helps prevent unauthorized changes to the system configuration. If the administrator password is not known, the BIOS version cannot be changed and changes cannot be made to BIOS settings using F10 setup or under the OS.
- Advanced Configuration and Power Interface (ACPI) Represents a significant innovation in power and configuration
 management, allowing operating systems and applications to manage power based on activity and usage. HP Elite
 models use ACPI to provide power conservation features.

S5 Max Power Savings setting supports EU Lot6 requirement and allows the computer to power down below 0.5W in S5 (when turned off). When S5 Max Power Savings feature is enabled below features are turned off:

- Power to slots
- Wake events other than power buttons (such as Wake on LAN)
- USB charging ports

SureStart



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

- BIOS Integrity checking Sure Start protection ensures that only trusted BIOS code is executed and not rootkits, viruses and malware. Verification is done upon boot up, shutdown and while On.
- Sure Start is set by default to automatically repair the BIOS if corrupted or compromised but is policy driven for better manageability.
- Protecting beyond BIOS Integrity checking and repair is extended to other data that should be protected such as network configuration parameters (network name), platform specific information (i.e. system IDs) and other code the system needs to boot.
- Audit enabled System Audit via Sure Start Event Logs capture data such as incident, repair date and time for troubleshooting and investigating.

Core™ vPro™ Processors*

Intel® 6th & 7th Generation Core™ vPro™ Processors

All HP Elite 800 G3 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 Elite 800 G3 Business PC, thus making these models the most stable, secure, and manageable platforms available to enterprises today.

Intel® Advanced Management Technology (AMT) v11** – 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 11 includes the following advanced management functions:

- Support for configuration of Intel® AMT 11.0 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

*Some functionality of this 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 dependent on 3rd party software providers. Compatibility with future "virtual appliances" is yet to be determined.

** Intel® Active Management Technology requires an Intel® AMT-enabled chipset, network hardware and software, as well as connection with a power source and a corporate network connection. Setup requires configuration by the purchaser and may require scripting with the management console or further integration into existing security frameworks to enable certain functionality. It may also require modifications of implementation of new business processes.

HARDWARE SECURITY

SATA 0,1 port disablement (via BIOS) RAID configurations (MT/SFF only) Serial, USB enable/disable (via BIOS)



THIS

QuickSpecs

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

Solenoid Lock / Hood Sensor (TWR/SFF only)
Hood Sensor for DM and AiO (integrated in the PCA, can be enabled/disabled through BIOS)
Support for chassis padlocks and cable lock devices

POWER SUPPLY

	DM	SFF	TWR	AiO
Standard Efficiency	65W EPS, 89% average efficiency at 115V & 230Vac 90W active PFC 89% average efficiency at 115Vac & 230Vac	N/A	N/A	N/A
80 PLUS Bronze	N/A	82/85/82% efficient at 20/50/100% load (115V)	250W active PFC 82/85/82% efficient at 20/50/100% load (115V)	N/A
80 PLUS Gold	N/A		20/50/100% load (115V)	180W active PFC 87/90/87% efficient at 20/50/100% load (115V) 88/91/88% efficient at 20/50/100% load (230V)
80 PLUS Platinum	N/A	90/92/89% efficient at 20/50/100% load (115V) 91/93/90% efficient at 20/50/100% load (230V)	20/50/100% load (115V)	210W active PFC 90/92/89% efficient at 20/50/100% load (115V) 91/93/90% efficient at 20/50/100% load (230V)
Operating Voltage Range	90 – 264 VAC	90 – 264 VAC	90 – 264 VAC	90 – 264 VAC
Rated Voltage Range	100-240V AC	100-240V AC	100-240V AC	100-240V AC
Rated Line Frequency	50/60 HZ	50/60 HZ	50/60 HZ	50/60 HZ
Operating Line Frequency	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz
Rated Input Current			N/A	210W : 3A 180W : 2.5A
Rated Input Current with Energy Efficient* Power Supply	65W/1.6A 90W/1.4A 120W/2.2A	2.3A	250W Bronze/3.5A 250W Platinum/3A 500W Gold/6A	210W: 3A 180W: 2.5A
	L]	[J <u>L</u>



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

DC Output	+19.5V		+12.1V	_12.1V	+12.1V
Current Leakage (NFPA 99: 2102)	microamps of leakage current at 120 Vac with the ground wire 120 Vac with the required for Nor and Equipment		Less than 500 microamps 120 Vac with the ground v required for Non-patient I and Equipment used in a p that contact patients in no 10.3.5.1.	Less than 500 microamps of leakage current at 120 Vac with the ground wire disconnected, as required for Non- patient Electrical Appliances and Equipment used in a patient care facility or that contact patients in normal use. Per section 10.3.5.1.	
	Less than 10 microamps of current at 12 the ground with normal required for Electrical Ap Equipment upatient care that contact normal use. 10.3.5.1.	of leakage 20 Vac with vire intact polarity, as Non-patient pliances and ised in a facility or patients in	Less than 100 microamps 120 Vac with the ground v polarity, as required for N Appliances and Equipmen facility or that contact pat section 10.3.5.1.	Less than 100 microamps of leakage current at 120 Vac with the ground wire intact with normal polarity, as required for Non- patient Electrical Appliances and Equipment used in a patient care facility or that contact patients in normal use. Per section 10.3.5.1.	
Power Supply Fan	N/A		70mm variable speed	70mm variable speed	N/A
Power cord length	6.0 ft. (1.83			6.0 ft. (1.83 m)	6.0 ft. (1.83 m)
External Power Adapter	65 W	90 W	N/A	N/A	N/A
Dimensions	30mm x 113.5mm x 55mm	31.1mm x 133mm x 58mm	N/A	N/A	N/A
Total Cord Length	6 ft	6 ft	N/A	N/A	N/A

The harmonic input current requirements must be met under the following operating conditions:

Load Requirements: 50% and 100% Input Voltage: 230Vac/50Hz.

For active power factor correction the power factor at 50% &100% loads shall be greater than 0.9 over the entire nominal input voltage range (100-127VAC and 200-240VAC).

Condition	Standard Efficiency	82/85/82%	85/88/85%	87/90/87%	90/92/89%	Input Voltage
10% of Rated Load	-	75%	81%	84%	84%	115Vac/60HZ
20% of Rated Load	-	82%	85%	87%	90%	115Vac/60HZ
CON of Dated Load	ı	85%	88%	90%	92%	115026/6007
50% of Rated Load	PF>0.9	PF>0.9	PF>0.9	PF>0.9	PF>0.95	115Vac/60HZ



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

100% of Rated Load	70%	82%	85%	87%	89%	115Vac/60HZ
	PF>0.9	PF>0.9	PF>0.9	PF>0.9	PF>0.9	230Vac/50HZ

WEIGHTS & DIMENSIONS

(configured with 1 HDD & 1 ODD; DM configured with 1 HDD only)

_	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Chassis (W x D x H) Not including bezel	6.97 x 6.88 x 1.35 in 177 x 174.7 x 34.2 mm	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	64 cu in 1.06 L	634 cu in 10.4 L	1269 cu in 20.8 L	
System Weight*	35W model 2.67 lb 1.21 kg 65W model 2.89 lb 1.31 kg	11.7 lb 5.31 kg	21.79 lb 9.86 kg	
Max Supported Weight (desktop orientation)	N/A	77 lb 35 kg	77 lb 35 kg	
Stand Dimensions	N/A	N/A	N/A	
Stand Weight	N/A	N/A	N/A	
Packaging (W x D x H)	9.1 x 19.6 x 5.7 in 231.2 x 497.8 x 144.8 mm	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	
Shipping Weight	6.1 lb 2.8 kg	19.82 lb 9 kg	24.98 lb 11.34 kg	
Packaging (with Expansion Pack, W x D x H)	10.0 x 19.6 x 7.8 in 255 x 497.8 x 198 mm			
Shipping Weight (fully loaded)	11.5 lbs / 5.22 kg			
Multi-Unit Packaging (10 units)	20.28 x 16.54 x 25 in 515 x 420 x 636 mm			
Shipping Weight	68 lbs /31 kg			
Palletization Profile	4 layer max 80-units per pallet Footprint-39.21 x 46.61 in (996 x 1184 mm)	40-units per pallet	8-units per layer 4-layer max 32-units per pallet 47.24 x 39.37 x 4.72 in (including pallet)	
	Dependent on 40-Ft Stnd. Sea Container or 40-Ft High-cube Sea Container is used)			





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 Box	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 (10 units) 235.94-237.04 lbs 107-107.5 kg	Adjustable Height Stand (10 units) 295.42-297 lbs 134-135 kg	Recline Stand (10 units) 315.26lbs 143kg

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	<u>0 degrees</u>
	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

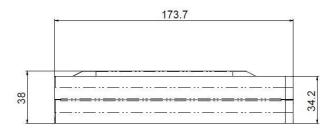
Shipping	Without Stand	Adjustable Height	Recline Stand
Dimensions	27.17 x 10.08 x	<u>Stand</u>	27.17 x 10.08 x
	21.46(H) in		26.22(H) in



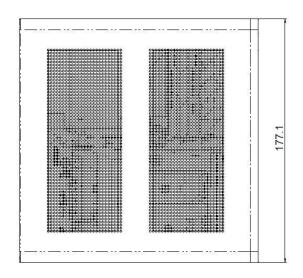
Boxed	690 x 256 x 545(H) mm	27.17 x 10.08 x 26.22(H) in 690 x 256 x 666(H) mm	690 x 256 x 666(H) mm
Shipping Dimensions Pallet	Without Stand (10 units) 47.24 x 39.37 x 24.02(H) in 1200 x 1000 x 610(H) mm	Adjustable Height Stand (10 units) 47.24 x 39.37 x 28.94(H) in 1200 x 1000 x 735(H) mm	Recline Stand (10 units) 47.24 x 39.37 x 28.94(H) in 1200 x 1000 x 735(H) mm

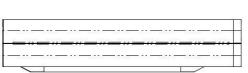
Standard Features and Configurable Components (availability may vary by country)

DESKTOP MINI DIMENSIONS



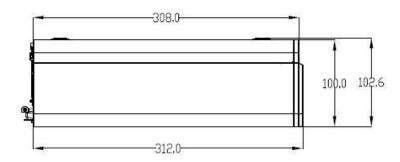


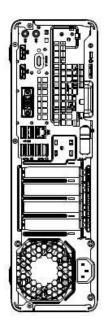


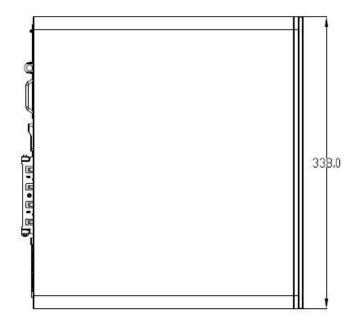


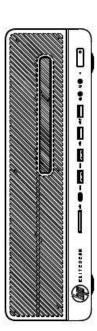


SMALL FORM FACTOR DIMENSIONS



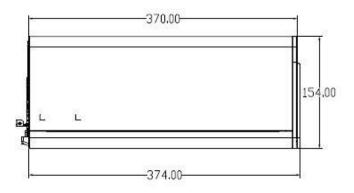


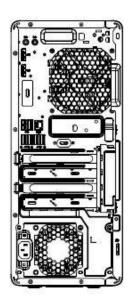


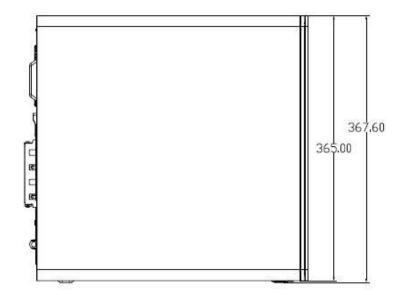


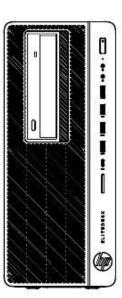
Standard Features and Configurable Components (availability may vary by country)

TOWER DIMENSIONS

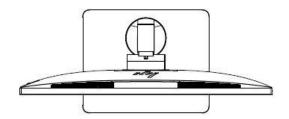


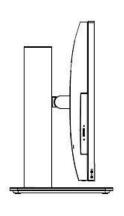


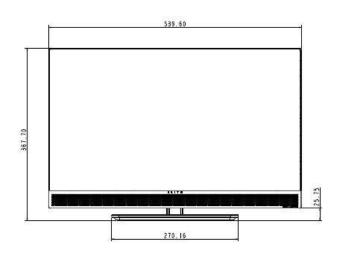


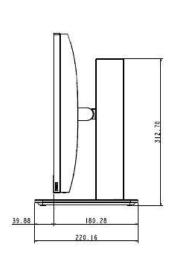


ALL-IN-ONE ADJUSTABLE HEIGHT STAND DIMENSIONS (LOW POSITION)



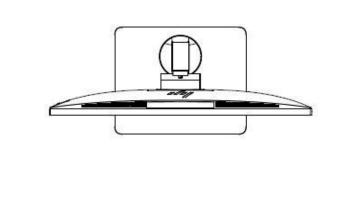


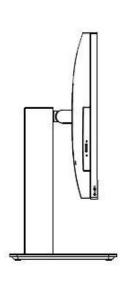


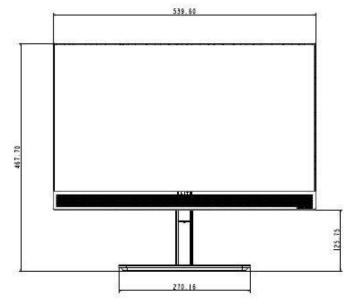


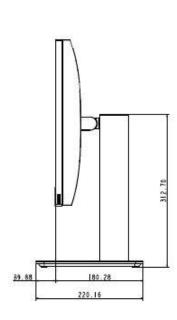
Standard Features and Configurable Components (availability may vary by country)

ALL-IN-ONE ADJUSTABLE HEIGHT STAND DIMENSIONS (HIGH POSITION)



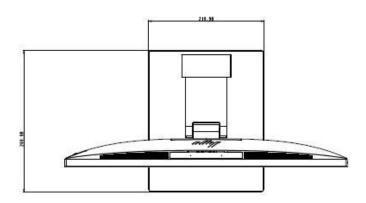


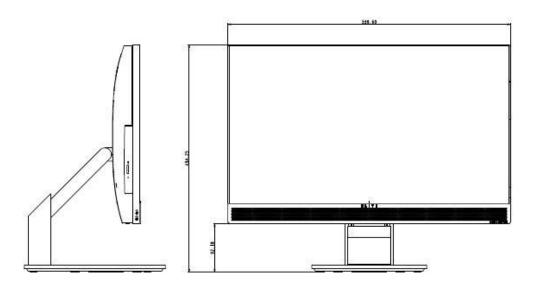


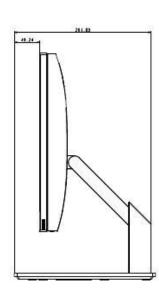


Standard Features and Configurable Components (availability may vary by country)

ALL-IN-ONE RECLINING STAND DIMENSIONS

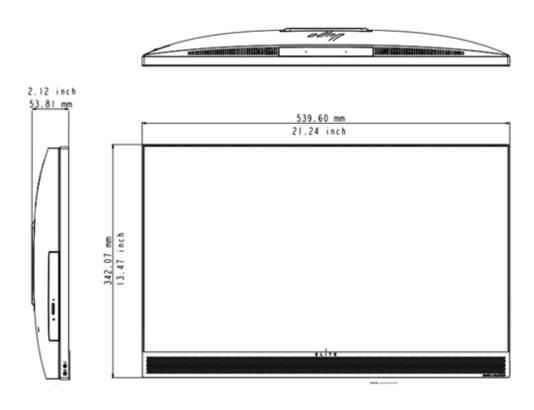






Standard Features and Configurable Components (availability may vary by country)

ALL-IN-ONE NO STAND DIMENSIONS







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

ENVIRONMENTAL & INDUSTRY

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:				
	IT ECO declaration				
	US ENERGY STAR®				
		the United States. See http://www	opost not for registration		
	status in your country.	the officed States. See http://www	v.epeat.net for registration		
System Configuration	The configuration used for the Ene	ergy Consumption and Doclared No	ica Emissians data for the		
system Comiguration	Desktop model is based on a typical				
		, ,	disk drive, a high efficiency		
	power supply, and a Microsoft Windows® operating system.				
Energy Consumption					
(in accordance with US					
ENERGY STAR® test					
method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz		
Normal Operation (Short	8.78 W	9.25 W	8.61 W		
dle)	0.76 W	9.25 W	0.01 W		
Normal Operation (Long	7.88 W	8.08 W	7.78 W		
dle)	7.00 W	6.06 W	7.76 W		
Sleep	0.88 W	0.99 W	0.95 W		
•					
Off	0.96 W	0.95 W	0.98 W		
	Note: Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAL for a typically configured PC feature.	n the ENERGY STAR® Logo are comp (EPA) ENERGY STAR® specifications R® compliant configurations, then o	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is		
	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency	n the ENERGY STAR® Logo are comp (EPA) ENERGY STAR® specifications R® compliant configurations, then or ring a hard disk drive, a high efficie	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is		
Heat Dissipation*	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC featur Microsoft Windows® operating sys	n the ENERGY STAR® Logo are comp (EPA) ENERGY STAR® specifications R® compliant configurations, then or ring a hard disk drive, a high efficie tem.	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is ncy power supply, and a		
-	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC featur Microsoft Windows® operating sys	n the ENERGY STAR® Logo are comp (EPA) ENERGY STAR® specifications R® compliant configurations, then or ring a hard disk drive, a high efficie tem. 230VAC, 50Hz	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is ncy power supply, and a		
Normal Operation (Short	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC featur Microsoft Windows® operating sys	n the ENERGY STAR® Logo are comp (EPA) ENERGY STAR® specifications R® compliant configurations, then or ring a hard disk drive, a high efficie tem.	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is ncy power supply, and a		
Normal Operation (Short dle)	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating sys	n the ENERGY STAR® Logo are comp (EPA) ENERGY STAR® specifications R® compliant configurations, then or ring a hard disk drive, a high efficie tem. 230VAC, 50Hz 32 BTU/hr	pliant with the applicable U.S. for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr		
Normal Operation (Short dle) Normal Operation (Long	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC featur Microsoft Windows® operating sys	n the ENERGY STAR® Logo are comp (EPA) ENERGY STAR® specifications R® compliant configurations, then or ring a hard disk drive, a high efficie tem. 230VAC, 50Hz	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is ncy power supply, and a		
Normal Operation (Short dle) Normal Operation (Long dle)	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating sys 115VAC, 60Hz 30 BTU/hr	n the ENERGY STAR® Logo are comp (EPA) ENERGY STAR® specifications R® compliant configurations, then or ring a hard disk drive, a high efficie tem. 230VAC, 50Hz 32 BTU/hr	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr 27 BTU/hr		
Normal Operation (Short dle) Normal Operation (Long dle) Sleep	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating sys 115VAC, 60Hz 30 BTU/hr 27 BTU/hr	n the ENERGY STAR® Logo are comp (EPA) ENERGY STAR® specifications R® compliant configurations, then oring a hard disk drive, a high efficientem. 230VAC, 50Hz 32 BTU/hr 28 BTU/hr	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr 27 BTU/hr 3 BTU/hr		
Normal Operation (Short dle) Normal Operation (Long	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating sys 115VAC, 60Hz 30 BTU/hr	n the ENERGY STAR® Logo are comp (EPA) ENERGY STAR® specifications R® compliant configurations, then or ring a hard disk drive, a high efficie tem. 230VAC, 50Hz 32 BTU/hr	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr 27 BTU/hr		
dle) Normal Operation (Long dle) Sleep	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating sys 115VAC, 60Hz 30 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr	n the ENERGY STAR® Logo are complete. (EPA) ENERGY STAR® specifications. R® compliant configurations, then oring a hard disk drive, a high efficientem. 230VAC, 50Hz 32 BTU/hr 28 BTU/hr 3 BTU/hr 3 BTU/hr	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr		
Normal Operation (Short dle) Normal Operation (Long dle) Sleep	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating sys 115VAC, 60Hz 30 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr *NOTE: Heat dissipation is calculated	n the ENERGY STAR® Logo are complete. (EPA) ENERGY STAR® specifications. R® compliant configurations, then oring a hard disk drive, a high efficientem. 230VAC, 50Hz 32 BTU/hr 28 BTU/hr 3 BTU/hr 3 BTU/hr	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr		
Normal Operation (Short dle) Normal Operation (Long dle) Sleep	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating sys 115VAC, 60Hz 30 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr	n the ENERGY STAR® Logo are complete. (EPA) ENERGY STAR® specifications. R® compliant configurations, then oring a hard disk drive, a high efficientem. 230VAC, 50Hz 32 BTU/hr 28 BTU/hr 3 BTU/hr 3 BTU/hr	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr		
Normal Operation (Short dle) Normal Operation (Long dle) Sleep Off	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating sys 115VAC, 60Hz 30 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr *NOTE: Heat dissipation is calculat attained for one hour.	n the ENERGY STAR® Logo are complete. (EPA) ENERGY STAR® specifications. R® compliant configurations, then oring a hard disk drive, a high efficientem. 230VAC, 50Hz 32 BTU/hr 28 BTU/hr 3 BTU/hr 3 BTU/hr	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr assuming the service level is		
Normal Operation (Short dle) Normal Operation (Long dle) Sleep Off	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating sys 115VAC, 60Hz 30 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr *NOTE: Heat dissipation is calculat attained for one hour.	n the ENERGY STAR® Logo are complete. (EPA) ENERGY STAR® specifications. R® compliant configurations, then oring a hard disk drive, a high efficientem. 230VAC, 50Hz 32 BTU/hr 28 BTU/hr 3 BTU/hr 3 BTU/hr	pliant with the applicable U.S. for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr assuming the service level is Sound Pressure		
Normal Operation (Short dle) Normal Operation (Long dle) Sleep Off Declared Noise Emissions	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating sys 115VAC, 60Hz 30 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr *NOTE: Heat dissipation is calculat attained for one hour.	n the ENERGY STAR® Logo are complete. (EPA) ENERGY STAR® specifications. R® compliant configurations, then oring a hard disk drive, a high efficientem. 230VAC, 50Hz 32 BTU/hr 28 BTU/hr 3 BTU/hr 3 BTU/hr	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr assuming the service level is		
Normal Operation (Short dle) Normal Operation (Long dle) Sleep Off Declared Noise Emissions (in accordance with	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating sys 115VAC, 60Hz 30 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr *NOTE: Heat dissipation is calculat attained for one hour.	n the ENERGY STAR® Logo are complete. (EPA) ENERGY STAR® specifications. R® compliant configurations, then oring a hard disk drive, a high efficientem. 230VAC, 50Hz 32 BTU/hr 28 BTU/hr 3 BTU/hr 3 BTU/hr	pliant with the applicable U.S. for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr assuming the service level is Sound Pressure		
Normal Operation (Short dle) Normal Operation (Long dle) Sleep Off Declared Noise Emissions in accordance with SO 7779 and ISO 9296) Typically Configured —	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating sys 115VAC, 60Hz 30 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr *NOTE: Heat dissipation is calculat attained for one hour.	n the ENERGY STAR® Logo are complete. (EPA) ENERGY STAR® specifications. R® compliant configurations, then oring a hard disk drive, a high efficientem. 230VAC, 50Hz 32 BTU/hr 28 BTU/hr 3 BTU/hr 3 BTU/hr	pliant with the applicable U.S. s for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr assuming the service level is Sound Pressure		
Normal Operation (Short dle) Normal Operation (Long dle) Sleep Off Declared Noise Emissions (in accordance with SO 7779 and ISO 9296) Typically Configured – dle	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating sys 115VAC, 60Hz 30 BTU/hr 27 BTU/hr 3 BTU/hr *NOTE: Heat dissipation is calculat attained for one hour. Sound Power (LwAd, bels)	n the ENERGY STAR® Logo are complete. (EPA) ENERGY STAR® specifications. R® compliant configurations, then oring a hard disk drive, a high efficientem. 230VAC, 50Hz 32 BTU/hr 28 BTU/hr 3 BTU/hr 3 BTU/hr	pliant with the applicable U.S. for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr assuming the service level is Sound Pressure (L _{pAm} , decibels)		
Normal Operation (Short dle) Normal Operation (Long dle) Sleep Off Declared Noise Emissions (in accordance with SO 7779 and ISO 9296) Typically Configured – dle Fixed Disk – Random	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating syssometry and the state of the sta	n the ENERGY STAR® Logo are complete. (EPA) ENERGY STAR® specifications. R® compliant configurations, then oring a hard disk drive, a high efficientem. 230VAC, 50Hz 32 BTU/hr 28 BTU/hr 3 BTU/hr 3 BTU/hr	pliant with the applicable U.S. for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr assuming the service level is Sound Pressure (L _{pAm} , decibels)		
Normal Operation (Short dle) Normal Operation (Long dle) Sleep	Energy efficiency data listed is for family . HP computers marked with Environmental Protection Agency family does not offer ENERGY STAI for a typically configured PC feature Microsoft Windows® operating sys 115VAC, 60Hz 30 BTU/hr 27 BTU/hr 3 BTU/hr *NOTE: Heat dissipation is calculat attained for one hour. Sound Power (LwAd, bels)	n the ENERGY STAR® Logo are complete. (EPA) ENERGY STAR® specifications. R® compliant configurations, then oring a hard disk drive, a high efficientem. 230VAC, 50Hz 32 BTU/hr 28 BTU/hr 3 BTU/hr 3 BTU/hr ed based on the measured watts, a	pliant with the applicable U.S. for computers. If a model energy efficiency data listed is ncy power supply, and a 100VAC, 50Hz 29 BTU/hr 27 BTU/hr 3 BTU/hr 3 BTU/hr assuming the service level is Sound Pressure (L _{pAm} , decibels)		



Additional Information	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 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 ⁽¹⁾) 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.		
		product contains 24.1% post-consumer recycled plastic (I product is 91.7% recycle-able when properly disposed of	
Packaging Materials	External:	PAPER/Corrugated	443 g
	Internal:	PLASTIC/Polyethylene Expanded - EPE	38 g
		PLASTIC/Polyethylene High density - HDPE	4 g
	The Plastic	packaging material is made from 0% recycled content.	
		ackaging materials contains at least 25% recycled content	
Material Usage	the HP Gener	does not contain any of the following substances in excess ral Specification for the Environment at hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pd	-
	 Cert Cert Cad Chlo Forr Halo Lea Mer Nick han Ozo Poly Poly Poly Poly volu Rad 	estos vain Azo Colorants vain Brominated Flame Retardants — may not be used as flat mium varinated Hydrocarbons vainated Paraffins maldehyde vagenated Diphenyl Methanes d carbonates and sulfates d and Lead compounds varic Oxide Batteries val — finishes must not be used on the external surface desi val ded or carried by the user. value Depleting Substances varbominated Biphenyl (PBBs) varbominated Biphenyl Oxides (PBBCs) varbominated Biphenyl Oxides (PBBOs) varborinated Biphenyl (PCB) varinyl Chloride (PVC) — except for wires and cables, and cert value (PBBC) varinyl Chloride (PVC) — except for wires and cables, and cert value (PBC) varinyl Chloride (PVC) — except for wires and cables, and cert value (PBC) varinyl Chloride (PVC) — except for wires and cables, and cert value (PBC) value (P	igned to be frequently tain retail packaging has been

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

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

HP EliteDesk 800 65W G3 Desktop Mini Business PC

Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC. 60Hz	230VAC. 50Hz	100VAC, 50Hz	
System Configuration	status in your country. The configuration used for the En	ergy Consumption and Declared No cally configured PC featuring a hard	ise Emissions data for the	
& declarations	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			
Eco-Label Certifications	This product has received or is in	the process of being certified to the	following approvals and may be	



Normal Operation (Short	8.78 W	9.25 W	8.61 W		
idle)	7.00 W				
Normal Operation (Long	7.88 W	8.08 W	7.78 W		
idle) Sleep	0.99 W	0.00 W	0.95 W		
Off	0.88 W 0.99 W 0.96 W 0.95 W		0.95 W 0.98 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 power supply, and a Microsoft Windows® operating system.				
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz		
Normal Operation (Short idle)	30 BTU/hr	32 BTU/hr	29 BTU/hr		
Normal Operation (Long idle)	27 BTU/hr	28 BTU/hr	27 BTU/hr		
Sleep	3 BTU/hr	3 BTU/hr	3 BTU/hr		
Off	3 BTU/hr	3 BTU/hr	3 BTU/hr		
	*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.				
	I	ica basca on the measured wates	, assuming the service level is		
Declared Noise	I	lea based on the ineasured wates	Sound Pressure		
Emissions (in accordance with	attained for one hour.	eca sasca on the incasarca wates			
Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured –	attained for one hour. Sound Power	eca sasca on the incasarca wates	Sound Pressure		
Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random	attained for one hour. Sound Power (LwAd, bels)	lea basea on the incasarea wates	Sound Pressure (L _{pAm} , decibels)		
Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random writes	Sound Power (LwAd, bels)		Sound Pressure (L _{pAm} , decibels) 21 21		
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random writes Batteries	Sound Power (LwAd, bels) 3.0 3.0	nply with EU Directive 2006/66/EC ot contain: weight	Sound Pressure (L _{pAm} , decibels) 21 21		

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	443 g
	Internal:	PLASTIC/Polyethylene Expanded - EPE	38 g
		PLASTIC/Polyethylene High density - HDPE	4 g
	The Plastic	packaging material is made from 0% recycled conten	
		ackaging materials contains at least 25% recycled co	
	http://www.l Asbe Cert Cert Cade Chloe Chloe Forr Halo Lead Mere Nick hand Ozo Poly Poly Poly Poly Rad	ral Specification for the Environment at hp.com/hpinfo/globalcitizenship/environment/pdf/grestos ain Azo Colorants ain Brominated Flame Retardants — may not be used mium orinated Hydrocarbons orinated Paraffins maldehyde ogenated Diphenyl Methanes dicarbonates and sulfates di and Lead compounds curic Oxide Batteries del — finishes must not be used on the external surface deled or carried by the user. The Depleting Substances Torominated Biphenyl (PBBs) Torominated Biphenyl Ethers (PBBEs) Torominated Biphenyl Oxides (PBBOs) Torominated Terphenyls (PCT) Toroninated Terphenyls (PCT) Toroninated Terphenyls (PCT) Toroninated Floride (PVC) — except for wires and cables, an antarily removed from most applications. Toronicative Substances Toronicative Substances Toronicative Tiphenyl Tin (TPT), Tributyl Tin Oxide	d as flame retardants in plastics te designed to be frequently and certain retail packaging has been

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

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

HP EliteDesk 800 G3 Small Form Factor Business 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:				
	 IT ECO declaration 				
	 US ENERGY STAR® 				
	EPEAT Gold registered in the United States. See http://www.epeat.net for registration status in your country.				
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Desktop model is based on a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.				
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz		
Normal Operation (Short	12.86 W	12.52 W	12.45 W		
idle)	. = . 30				



Normal Operation (Long idle)	11.72 W	11.69 W	11.82 W	
Sleep	1.09 W	1.08 W	1.09 W	
Off	0.73 W	0.73 W	0.73 W	
	Note: Energy efficiency data listed is for a family . HP computers marked with Environmental Protection Agency (I family does not offer ENERGY STAR for a typically configured PC feature Microsoft Windows® operating syst	the ENERGY STAR® Logo are con EPA) ENERGY STAR® specification ® compliant configurations, then ing a hard disk drive, a high effici	npliant with the applicable U.S. ns for computers. If a model n energy efficiency data listed is	
leat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz	
Normal Operation (Short dle)	44 BTU/hr	43 BTU/hr	43 BTU/hr	
Normal Operation (Long dle)	40 BTU/hr	40 BTU/hr	40 BTU/hr	
Sleep	4 BTU/hr	4 BTU/hr	4 BTU/hr	
Off	2 BTU/hr	2 BTU/hr	2 BTU/hr	
Declared Noise	*NOTE: Heat dissipation is calculate attained for one hour. Sound Power		assuming the service level is	
Jectarea Noise Emissions				
in accordance with SO 7779 and ISO 9296)	(L _{pAm} , decibels)			
Typically Configured – dle	3.1 22			
Fixed Disk – Random writes	3.2		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: 1 USB ports 4 PCIe half-length slot 1 internal M.2 SSD storage (2230 or 2280 connector) 1 internal M.2 WLAN (2230 connector) 1 2.5" internal storage drive bay (HDD/SSD/SED/SSHD) 2 3.5" internal storage drive bay (HDD/SSD/SED/SSHD) 1 9.5mm slim optical drive bay 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 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) directing 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⁽¹⁾) 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 17.9% post-consumer recycled plastic (by wt.) This product is 94.2% recycle-able when properly disposed of at end of life. 		
Packaging Materials	External:	PAPER/Paperboard	1158 g
	Internal:	PLASTIC/Polyethylene Expanded - EPE	184 g
		PLASTIC/Polyethylene low density - LDPE	28 g
	The Plastic	packaging material is made from 75% recycled cont	
		ackaging materials contains at least 47.5% recycled	
	http://www.l Asbe Cert Cert Cade Chloe Chloe Forr Halo Lead Mere Nick hand Ozo Poly Poly Poly Poly Rad	ral Specification for the Environment at hp.com/hpinfo/globalcitizenship/environment/pdf/estos rain Azo Colorants rain Brominated Flame Retardants – may not be use mium orinated Hydrocarbons orinated Paraffins maldehyde ogenated Diphenyl Methanes d carbonates and sulfates d and Lead compounds curic Oxide Batteries rel – finishes must not be used on the external surfated or carried by the user. ne Depleting Substances r/brominated Biphenyls (PBBs) r/brominated Biphenyl Ethers (PBBEs) r/brominated Biphenyl Oxides (PBBOs) r/chlorinated Terphenyls (PCT) r/vinyl Chloride (PVC) – except for wires and cables, a untarily removed from most applications. ioactive Substances utyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide	d as flame retardants in plastics ace designed to be frequently and certain retail packaging has been

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

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

HP EliteDesk 800 G3 Tower Business PC

Eco-Label Certifications	This product has received or is in	the process of being certified to t	the following approvals and may be	
& declarations	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.			
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Desktop model is based on a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.			
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz	
Normal Operation (Short	15.60 W	14.19 W	15.88 W	
idle)	13.00 W	14.13 W	1 J.00 W	



Normal Operation (Long idle)	14.62 W	13.08 W	14.91 W	
Sleep	1.23 W	1.17 W	1.22 W	
Off	0.81 W	0.79 W	0.81 W	
	Note: Energy efficiency data listed is for a family . HP computers marked with Environmental Protection Agency (I family does not offer ENERGY STAR for a typically configured PC featuri Microsoft Windows® operating syst	the ENERGY STAR® Logo are cor EPA) ENERGY STAR® specificatio ® compliant configurations, the ng a hard disk drive, a high effic em.	mpliant with the applicable U.S. ons for computers. If a model n energy efficiency data listed is ciency power supply, and a	
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz	
Normal Operation (Short idle)	53 BTU/hr	49 BTU/hr	54 BTU/hr	
Normal Operation (Long idle)	50 BTU/hr	45 BTU/hr	51 BTU/hr	
Sleep	4 BTU/hr	4 BTU/hr	4 BTU/hr	
Off	3 BTU/hr	3 BTU/hr	3 BTU/hr	
	*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.			
Declared Noise	Sound Power	So	und Pressure	
Emissions	(L _{pAm} , decibels)			
(in accordance with ISO 7779 and ISO 9296)				
Typically Configured – Idle	3.3 22			
Fixed Disk – Random writes	3.5			
Longevity and Upgrading	This product can be upgraded, poss			
	features and/or components contained in the product may include: 1 USB ports 4 PCIe half-length slot 1 internal M.2 SSD storage (2230 or 2280 connector) 1 internal M.2 WLAN (2230 connector) 1 2.5"/2 3.5" internal storage drive (HDD/SSD/SED/SSHD) 1 5.25" external supporting optical drive 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	ly 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 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 IS011469 and IS01043. This product contains 17.8% post-consumer recycled plastic (by wt.) This product is 95.9% recycle-able when properly disposed of at end of life. 		
Packaging Materials	External:	PAPER/Corrugated	1144 g
	Internal:	PLASTIC/Polyethylene Expanded - EPE	288 g
		PLASTIC/Polyethylene low density - LDPE	3 g
	The Plastic		
Material Usage	The Plastic packaging material is made from 75% recycled content. The paper packaging materials contains at least 47.5% 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 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		

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

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

HP EliteOne 800 G3 Touch GPU All-in-One Business PC

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® • EPEAT Gold registered in the United States. See http://www.epeat.net for registration status in your country.		
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Desktop model is based on a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.		
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz



Normal Operation (Short idle)	24.53 W	24.16 W	24.51 W	
Normal Operation (Long idle)	14.37 W	14.76 W	13.88 W	
Sleep	4.30 W	4.20 W	4.33 W	
Off	0.88 W	0.87 W	0.89 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 power supply, and a Microsoft Windows® operating system.			
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz	
Normal Operation (Short idle)	84 BTU/hr	83 BTU/hr	84 BTU/hr	
Normal Operation (Long idle)	49 BTU/hr	50 BTU/hr	47 BTU/hr	
Sleep	14 BTU/hr	14 BTU/hr	15 BTU/hr	
Off	3 BTU/hr *NOTE: Heat dissipation is calculated attained for one hour.	3 BTU/hr ated based on the measured watts	3 BTU/hr s, assuming the service level is	
Declared Noise	Sound Power Sound Pressure			
Emissions	(L _{pAm} , decibels)			
(in accordance with ISO 7779 and ISO 9296)				
Typically Configured – Idle	2.9		20	
Fixed Disk – Random writes	2.9		20	
Longevity and Upgrading Batteries	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: • 6 USB ports • 1 Type-C USB port - 15W • 1 SD4.0 card reader • 2 memory slots • 1 M.2 Wireless module slot • 2 M.2 storage slots • 1 2.5" internal bay (HDD/SSD/SED/SSHD) • 1 9.5mm external supporting optical drive This battery(s) in this product comply with EU Directive 2006/66/EC			
	Batteries used in the product do Mercury greater the1ppm by Cadmium greater than 20pp Battery size: CR2032 (coin cell) Battery type: Lithium	weight		



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 41.9%post-consumer recycled plastic (by wt.) This product is 98.0 % recycle-able when properly disposed of at end of life. 		
Packaging Materials	External:	PAPER/Corrugated	1191 g
	Internal:	PLASTIC/Polyethylene Expanded - EPE	556 g
		PLASTIC/Polyethylene low density - LDPE	94 g
	The Plastic		1 3
			t.
Material Usage	The Plastic packaging material is made from 80% recycled content. The paper packaging materials contains at least 80% 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 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		

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

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

HP EliteOne 800 G3 Non Touch GPU All-in-One Business PC

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® • EPEAT□ Gold registered in the United States. See http://www.epeat.net for registration status in your country.			
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Desktop model is based on a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.			
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz	
Normal Operation (Short idle)	24.53 W	24.16 W	24.51 W	



Normal Operation (Long idle)	14.37 W	14.76 W	13.88 W
Sleep	4.30 W	4.20 W	4.33 W
Off	0.88 W	0.87 W	0.89 W
	family . HP computers mark Environmental Protection A family does not offer ENERO	ed with the ENERGY S gency (EPA) ENERGY GY STAR® compliant c Teaturing a hard disk	AR® compliant product if offered within the model STAR® Logo are compliant with the applicable U.S. STAR® specifications for computers. If a model onfigurations, then energy efficiency data listed is a drive, a high efficiency power supply, and a
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	84 BTU/hr	83 BTU/hr	84 BTU/hr
Normal Operation (Long idle)	49 BTU/hr	50 BTU/hr	47 BTU/hr
Sleep	14 BTU/hr	14 BTU/hr	15 BTU/hr
Off	3 BTU/hr	3 BTU/hr	3 BTU/hr
Declared Noise Emissions (in accordance with	*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour. Sound Power (Lwad, bels) Sound Pressure (Lpam, decibels)		
ISO 7779 and ISO 9296)			
Typically Configured – Idle	2.9		20
Fixed Disk – Random writes	2.9		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: • 6 USB ports • 1 Type-C USB port - 15W • 1 SD4.0 card reader • 2 memory slots • 1 M.2 Wireless module slot • 2 M.2 storage slots • 1 2.5" internal bay (HDD/SSD/SED/SSHD) • 1 9.5mm external supporting optical drive		
Batteries	This battery(s) in this produce Batteries used in the produce Mercury greater the 1 pp Cadmium greater than 2 Battery size: CR2032 (coin coin the sattery type: Lithium	et do not contain: om by weight 20ppm by weight	ective 2006/66/EC

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 41.9%post-consumer recycled plastic (by wt.) This product is 98.0 % recycle-able when properly disposed of at end of life. 		
Packaging Materials	External:	PAPER/Corrugated	1191 g
	Internal:	PLASTIC/Polyethylene Expanded - EPE	556 g
		PLASTIC/Polyethylene low density - LDPE	94 g
	The Plastic		1 3
			t.
Material Usage	The Plastic packaging material is made from 80% recycled content. The paper packaging materials contains at least 80% 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 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		

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

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

HP EliteOne 800 G3 Non-Touch All-in-One Business PC Healthcare

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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® • TCO Certified EDGE • EPEAT [□] Gold registered in the United States. See http://www.epeat.net for registration status in your country.						
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Desktop model is based on a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.						
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz				
Normal Operation (Short idle)	24.53 W 24.16 W 24.51W						
Normal Operation (Long idle)	14.37 W	14.76 W	13.88 W				



Sleep	4.30 W	4.20 W	4.33 W				
Off	0.88 W	0.87 W	0.89 W				
	Note: Energy efficiency data listed is f model family . HP computers ma applicable U.S. Environmental P computers. If a model family do energy efficiency data listed is f efficiency power supply, and a M	arked with the ENERGY STAR® rotection Agency (EPA) ENERG es not offer ENERGY STAR® co or a typically configured PC fe	Logo are compliant with the GY STAR® specifications for Impliant configurations, then aturing a hard disk drive, a high				
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz				
Normal Operation (Short idle)	84 BTU/hr	83 BTU/hr	84 BTU/hr				
Normal Operation (Long idle)	49 BTU/hr	50 BTU/hr	48 BTU/hr				
Sleep	15 BTU/hr	14 BTU/hr	15 BTU/hr				
Off	3 BTU/hr	3 BTU/hr	3 BTU/hr				
Declared Noise Emissions	*NOTE: Heat dissipation is calcul is attained for one hour. Sound Power	lated based on the measured	watts, assuming the service level Sound Pressure				
(in accordance with ISO 7779 and ISO 9296)	(L _{WAd} , bels)		(L _{pAm} , decibels)				
Typically Configured – Idle	3.0		19				
Fixed Disk – Random writes	3.0		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: • 6 USB ports • 2 memory slots • 1 M.2 2230 for WLAN • 2 M.2 2280 for NVMe SSD storage • 1 2.5" internal bay support • 1 5.25" 9.5mm-slim ODD 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 co Batteries used in the product do Mercury greater the1ppm b Cadmium greater than 20pp Battery size: CR2032 (coin cell) Battery type: Lithium	not contain: y weight	66/EC				

Additional Information	direct This I Equip This I Drink This I see w Plast and I!	product is in compliance with the Restrictions of Hazardous tive - 2011/65/EC. HP product is designed to comply with the Waste Electrical and the Product is designed to comply with the Waste Electrical and the Product is in compliance with California Proposition 65 (Stating Water and Toxic Enforcement Act of 1986). Product is in compliance with the IEEE 1680 (EPEAT standardown) standardown. Product seems weighing over 25 grams used in the product are med 501043. Product contains 41.6% post-consumer recycled plastic (by product is 98% recycle-able when properly disposed of at expressions.	and Electronic te of California; Safe ard at the gold level, arked per ISO11469 wt.)							
Packaging Materials	External:	PAPER/Corrugated	1191 g							
	Internal:	PLASTIC/Polyethylene Expanded - EPE	556 g							
		PLASTIC/Polyethylene low density - LDPE	94 g							
	The Plastic pa	The Plastic packaging material is made from 80% recycled content.								
		ckaging materials contains at least 80% recycled content. loes not contain any of the following substances in excess o								
	http://www.hp Asbes Certa Certa Cadm Chlor Chlor Form Halog Lead Lead Merco Nicke handl Ozon Polyb Polyb Polyc Polyc Radio	in Azo Colorants in Brominated Flame Retardants – may not be used as flam	ne retardants in plastics ned to be frequently in retail packaging has							

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_Desi gn_ISO_14K_Certificate.pdf and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

- ENERGY STAR® certified models available
- 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
- Low halogen (chassis, all internal components and modules)*
- TAA compliant models available



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



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

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)*

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 Operating: 5000m

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

*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.

SERVICE AND SUPPORT

On-site Warranty ¹: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day ² service for parts and labor and complimentary limited technical support. ³ 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. ⁴ To choose the right level of service for your HP product, visit HP Care Pack Central: www.hp.com/go/cpc

NOTE 1: Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.

NOTE 2: 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.

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

NOTE 4: 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.



Technical Specifications – Graphics

GRAPHICS

Intel® HD Graphics (int	egrated)							
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)							
Memory	Additional memory is alloca	ted for graphics as needed us	size of 128MB, 256MB or 512MB sing Intel's Dynamic Video Memory en graphics and system memory					
Maximum Graphics Memory	Microsoft Windows 7	Windows 8.1	Windows 10					
	Up to 1.7GB	Up to 1.8GB	>4 GB					
	Note: the actual amount of rabove depending upon your		an be less than the amounts listed					
Maximum Color Depth	32 bits/pixel							
Graphics/Video API Support	playback and enhare experience	rel® Clear Video Technology Hocement features that improvenscode HD content of high definition content inclinage quality with sharper, moveration (DXVA) support for ac C1/MPEG2/HEVC HW Decode r 2.0, 1.0 vs 8.1, Windows 10, Linux OS	uding Blu-ray Disc ore colorful images ccelerating video processing					

Supported Display Resolutions and Refresh Rates

Note: other resolutions may be available but are not recommended as they may not have been tested and qualified by HP. For All in One platforms, resolutions higher than the integrated panel resolution are not supported on the integrated panel.

Resolution	Refresh Rate	VGA	DisplayPort™ 1.2	ІМОН	Standard
640 x 480	60, 75, 85	Х	Х	Χ	VESA DMT, CVT 0.31M3
720 x 400	70	Х	Х	Х	IBM VGA
800 x 600	60, 75, 85	Х	Х	Χ	VESA DMT, CVT0.48M3



Technical Specifications – Graphics

1024 x 768	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.79M3
1152 x 864	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.83MA
1280 x 720	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.92M9, CEA-770.3
1280 x 768	60, 60RB, 75, 85	Х	Х	Х	VESA DMT, CVT 0.98M9/0.98M9-R
1280 x 800	60, 75, 85	Х	Х	Х	VESA DMT
1280 x 960	60, 75, 85	Х	Х	Х	VESA DMT
1280 x 1024	60, 75, 85	Х	Х	Х	VESA DMT, CVT 1.31M4
1366 x 768	60, 60RB	Х	Х	Х	VESA DMT
1440 x 900	60, 60RB	Х	Х	Х	VESA DMT
1600 x 900	60, 60RB, 75, 85	Х	Х	Х	VESA DMT
1680 x 1050	60, 60RB, 75	Х	Х	Х	VESA DMT, CVT 1.76MA/1.76MA-R
1920 x 1080	60	Х	Х	Х	VESA DMT, CVT 2.07M9, SMPTE 274M
1920 x 1200	60, 60RB, 75, 85	Х*	Х	Х	DMT, CVT 2.30MA/2.30MA-R
1600 x 1200	60, 75, 85	Х*	Х	Х	VESA DMT, 1.92M3
1920 x 1440	60, 75, 85		Х	Х	VESA DMT, CVT 2.76M3
2048 x 1536	60,75		Х	Х	CVT 3.15M3
2560 x 1440	59.951		Х	Х	CVT 3.69M9-R
2560 x 1600	60, 60RB		Х	Х	VESA DMT, CVT 4.10MA/4.10MA-R
3440 x 1440	60		Х	Х	VESA DMT, CVT 0.31M3
3440 x 1440	75, 85		Х		VESA DMT, CVT 0.31M3
3840 x 2160	24		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	25		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	30		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	50		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	60		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
4096 x 2160	24		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	25		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	30		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	50		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	60		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
1920 x 1080	60		Х	Х	VESA (SMPTE 274M)
1920 x 1080	50		Х	Х	SMPTE 274M
1920 x 1080	30		Х	Х	SMPTE 274M
1920 x 1080	24		Х	Х	SMPTE 274M



Technical Specifications – Graphics

1280 x 720	60	Х	Х	VESA (CEA-770.3)		
1280 x 720	50	Х	Х	SMPTE 296M		
720 x 480	60	Х	Х	MHL (CEA-770.2)		
720 x 576	50	Х	Х	ITU-R BT.1358		
640 x 480	60	Х	Х	CEA (VESA DMT)		
* 60Hz refresh rate only on VGA						

AMD Radeon™ R7 450 4GB PCle x16 Graphics Card

Memory4GB 128-bit wide frame buffer operating at 1125MHz.Controller Clock SpeedAMD® Radeon™ R9 450 GPU operating at 925 MHz

Multi-display Support A maximum of 4 displays are supported by the card. A maximum of 2 legacy displays (Native VGA,

DVI, or displays connected with passive DisplayPort™ 1.2 adapters are considered as legacy)

Graphics / API support DIRECTX 12, Open GL 4.3, Open CL1.2, UVD 3

Output Connectors 1 x Dual-Link DVI-I, 1x DisplayPort™ 1.2; 1x HDMI; Includes DVI to VGA adapter

Supported Display Resolutions and Refresh Rates

Note: other resolutions may be available but are not recommended as they may not have been tested and qualified by HP

						dy not nave been tested and qualined by HP
Resolution	Refresh Rate*	VGA (DVI-VGA	DVI-D	DisplayPort™ 1.2	НОМІ	Standard
640 x 480	60, 75, 85	Х	Х	Х	х	VESA DMT, CVT 0.31M3
720 x 400	70	Х	X	Х	X	IBM VGA
800 x 600	60, 75, 85	Х	Х	Х	Х	VESA DMT, CVT0.48M3
1024 x 768	60, 75, 85	Х	Х	Х	Х	VESA DMT, CVT 0.79M3
1152 x 864	60, 75, 85	Х	Х	Х	Х	VESA DMT, CVT 0.83MA
1280 x 720	60, 75, 85	Х	Х	Х	Х	VESA DMT, CVT 0.92M9, CEA-770.3
1280 x 768	60, 60RB, 75, 85	Х	Х	Х	Х	VESA DMT, CVT 0.98M9/0.98M9-R
1280 x 800	60, 75, 85	Х	Х	Х	Х	VESA DMT
1280 x 960	60, 75, 85	Х	Х	Х	Х	VESA DMT
1280 x 1024	60, 75, 85	Х	Х	Х	Х	VESA DMT, CVT 1.31M4
1366 x 768	60, 60RB	Х	Х	Х	Х	VESA DMT
1440 x 900	60, 60RB	Х	Χ	Х	Х	VESA DMT
1600 x 900	60, 60RB, 75, 85	Х	Х	Х	Х	VESA DMT
1680 x 1050	60, 60RB, 75	Х	Х	Х	Х	VESA DMT, CVT 1.76MA/1.76MA-R
1920 x 1080	60	Х	Х	Х	Х	VESA DMT, CVT 2.07M9, SMPTE 274M
1920 x 1200	60, 60RB, 75, 85	Х	Х	Х	Х	DMT, CVT 2.30MA/2.30MA-R

Technical Specifications – Graphics

1600 x 1200	60, 75, 85	Х	Х	Х	Х	VESA DMT, 1.92M3
1920 x 1440	60, 75, 85	Х	Х	Х	Х	VESA DMT, CVT 2.76M3
2048 x 1536	60,75	Х	Х	Х	Х	CVT 3.15M3
2560 x 1440	59.951		Х	Х	Х	CVT 3.69M9-R
2560 x 1600	60, 60RB		Х	Х	Х	VESA DMT, CVT 4.10MA/4.10MA-R
3840 x 2160	24			Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	25			Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	30		Х	Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	50			Х		CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	60			Х		CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
4096 x 2160	24			Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	25			Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	30			Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	50			Х		CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	60			Х		CVT-RBv1/v2 (8.85M-R), SMPTE 274M
1920 x 1080	60		Х	Х	Х	VESA (SMPTE 274M)
1920 x 1080	50		Х	Х	Х	SMPTE 274M
1920 x 1080	30		Х	Х	Х	SMPTE 274M
1920 x 1080	24		Х	Х	Х	SMPTE 274M
1280 x 720	60		Х	Х	х	VESA (CEA-770.3)
1280 x 720	50		Х	Х	х	SMPTE 296M
720 x 480	60		Х	Х	х	MHL (CEA-770.2)

* >60 refresh rates only for analog (VGA) signaling

AMD Radeon™ RX 460 4GB FH PCIe x16 Graphics Card

Memory2GB 128-bit wide frame buffer operating at 1750MHz.Controller Clock SpeedAMD® Radeon™ RX 460 GPU operating at up to 1.2GHzMulti-display SupportA maximum of 4 displays are supported by the card.

Graphics / API support DIRECTX 12, Open GL 4.5, Open CL 2.0, AMD Video Coding Engine (VCE) 3.4 and AMD Universal

Video Decoder(UVD)

Output Connectors 1 x Dual-Link DVI-D, 1x DisplayPort™ 1.2; 1x HDMI

Supported Display Resolutions and Refresh Rates

Note: other resolutions may be available but are not recommended as they may not have been tested and qualified by HP



Technical Specifications – Graphics

Resolution	Refresh Rate*	DVI-D	DisplayPort™ 1.2	HDMI	Standard
640 x 480	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.31M3
720 x 400	70	Х	Х	Х	IBM VGA
800 x 600	60, 75, 85	Х	Х	Х	VESA DMT, CVT0.48M3
1024 x 768	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.79M3
1152 x 864	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.83MA
1280 x 720	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.92M9, CEA-770.3
1280 x 768	60, 60RB, 75, 85	Х	Х	Х	VESA DMT, CVT 0.98M9/0.98M9-R
1280 x 800	60, 75, 85	Х	Х	Х	VESA DMT
1280 x 960	60, 75, 85	Х	Х	Х	VESA DMT
1280 x 1024	60, 75, 85	Х	Х	Х	VESA DMT, CVT 1.31M4
1366 x 768	60, 60RB	Х	Х	Х	VESA DMT
1440 x 900	60, 60RB	Х	Х	Х	VESA DMT
1600 x 900	60, 60RB, 75, 85	Х	Х	Х	VESA DMT
1680 x 1050	60, 60RB, 75	Х	Х	Х	VESA DMT, CVT 1.76MA/1.76MA-R
1920 x 1080	60	Х	Х	Х	VESA DMT, CVT 2.07M9, SMPTE 274M
1920 x 1200	60, 60RB, 75, 85	Х	Х	Х	DMT, CVT 2.30MA/2.30MA-R
1600 x 1200	60, 75, 85	Х	Х	Х	VESA DMT, 1.92M3
1920 x 1440	60, 75, 85	Х	Х	Х	VESA DMT, CVT 2.76M3
2048 x 1536	60, 75	Х	Х	Х	CVT 3.15M3
2560 x 1440	59.951	Х	Х	Х	CVT 3.69M9-R
2560 x 1600	60, 60 RB	Х	Х	Х	VESA DMT, CVT 4.10MA/4.10MA-R
3840 x 2160	24		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	25		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	30	Х	Х	Χ	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	50		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	60		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M



Technical Specifications – Graphics

4096 x 2160	24		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	25		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	30		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	50		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	60		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
1920 x 1080	60	Х	Х	Х	VESA (SMPTE 274M)
1920 x 1080	50	Х	Х	Х	SMPTE 274M
1920 x 1080	30	Х	Х	Х	SMPTE 274M
1920 x 1080	24	Х	Х	Х	SMPTE 274M
1280 x 720	60	Х	Х	Х	VESA (CEA-770.3)
1280 x 720	50	Х	Х	Х	SMPTE 296M
720 x 480	60	Х	Х	Х	MHL (CEA-770.2)

AMD Radeon™ RX 460 2GB Graphics

Memory 2GB 128-bit wide frame buffer operating at 1.5 GHz.

Controller Clock Speed AMD® Radeon™ RX 460 GPU operating at up to 1.053 GHz

Multi-display Support A maximum of 5 displays are supported by the card including the integrated panel

Graphics / API support DIRECTX 12, Open GL 4.5, Open CL 2.0, , AMD Video Coding Engine (VCE) 3.4 and AMD Universal

Video Decoder(UVD)

Output Connectors 1x DisplayPort™ 1.2; 1x HDMI

DisplayPort™ 1.2 output supports MST and HBR3

DP and HDMI outputs support HDR, HDCP 1.4 and HDCP 2.2

Supported Display Resolutions and Refresh Rates

Note: other resolutions may be available but are not recommended as they may not have been tested and qualified by HP

Resolution	Refresh Rate		DisplayPort™ 1.2	HDMI	Standard
640 x 480	60, 75, 85		Х	Х	VESA DMT, CVT 0.31M3
720 x 400	70		Х	Х	IBM VGA
800 x 600	60, 75, 85		Х	Х	VESA DMT, CVT0.48M3
1024 x 768	60, 75, 85		Х	Х	VESA DMT, CVT 0.79M3
1152 x 864	60, 75, 85		Х	Х	VESA DMT, CVT 0.83MA
1280 x 720	60, 75, 85		Х	Х	VESA DMT, CVT 0.92M9, CEA-770.3

Technical Specifications – Graphics

1280 x 768	60, 60RB, 75, 85		Χ	Х	VESA DMT, CVT 0.98M9/0.98M9-R
1280 x 800	60, 75, 85		Χ	Х	VESA DMT
1280 x 960	60, 75, 85		Χ	Х	VESA DMT
1280 x 1024	60, 75, 85		Χ	Х	VESA DMT, CVT 1.31M4
1366 x 768	60, 60RB		Χ	Х	VESA DMT
1440 x 900	60, 60RB		Х	Х	VESA DMT
1600 x 900	60, 60RB, 75, 85		Х	Х	VESA DMT
1680 x 1050	60, 60RB, 75		Х	Х	VESA DMT, CVT 1.76MA/1.76MA-R
1920 x 1080	60		Х	Х	VESA DMT, CVT 2.07M9, SMPTE 274M
1920 x 1200	60, 60RB, 75, 85		Х	Х	DMT, CVT 2.30MA/2.30MA-R
1600 x 1200	60, 75, 85		Х	Х	VESA DMT, 1.92M3
1920 x 1440	60, 75, 85		Χ	Х	VESA DMT, CVT 2.76M3
2048 x 1536	60, 75		Χ	Х	CVT 3.15M3
2560 x 1440	59.951		Χ	Х	CVT 3.69M9-R
2560 x 1600	60, 60 RB		Χ	Х	VESA DMT, CVT 4.10MA/4.10MA-R
3840 x 2160	24		Χ	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	25		Χ	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	30		Χ	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	50		Χ	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	60		Χ	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
4096 x 2160	24		Χ	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	25		Χ	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	30		Χ	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	50		Χ	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	60		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
1920 x 1080	60		Х	Х	VESA (SMPTE 274M)
1920 x 1080	50		Х	Х	SMPTE 274M
1920 x 1080	30		Х	Х	SMPTE 274M
1920 x 1080	24		Χ	Х	SMPTE 274M
1280 x 720	60		Х	Х	VESA (CEA-770.3)

Technical Specifications – Graphics

1280 x 720	50		Х	Х	SMPTE 296M
720 x 480	60		Х	Х	MHL (CEA-770.2)

NVIDIA® GeForce® GT 730 2GB PCIe x8 DP Graphics Card

Get impressive graphics and high resolution dual-display performance in a low profile, PCI Introduction

Express x8 graphics add-in card based on the NVIDIA® Kepler™ Graphics Processor. Improve your

everyday PC, Web conferencing, and video or photo editing.

Memory 2GB GDDR5 64-bit wide frame buffer operating at 900 MHz

Controller Clock Speed NVIDIA® Kepler™ GPU operating at 902 MHz

Multi-display Support A maximum of 4 displays are supported by the card.

Graphics / API support DIRECTX 12, Open GL 4.3, Open CL1.2, UVD 3

1 x Dual-Link DVI-I, 1x DisplayPort™ 1.2; Includes DVI to VGA adapter

Output Connectors Display Port output is multi-mode capable, support Audio, HBR2 and MST

Supported Display Resolutions and Refresh Rates

Note: other resolutions may be available but are not recommended as they may not have been tested and qualified by HP

	1				1
Resolution	Refresh Rate*	VGA (DVI-VGA adanter)	DVI-D	DisplayPort™ 1.2	Standard
640 x 480	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.31M3
720 x 400	70	Х	Х	Х	IBM VGA
800 x 600	60, 75, 85	Х	Х	Х	VESA DMT, CVT0.48M3
1024 x 768	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.79M3
1152 x 864	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.83MA
1280 x 720	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.92M9, CEA-770.3
1280 x 768	60, 60RB, 75, 85	Х	Х	Х	VESA DMT, CVT 0.98M9/0.98M9-R
1280 x 800	60, 75, 85	Х	Х	Х	VESA DMT
1280 x 960	60, 75, 85	Х	Х	Х	VESA DMT
1280 x 1024	60, 75, 85	Х	Х	Х	VESA DMT, CVT 1.31M4
1366 x 768	60, 60RB	Х	Х	Х	VESA DMT
1440 x 900	60, 60RB	Х	Х	Х	VESA DMT
1600 x 900	60, 60RB, 75, 85	Х	Х	Х	VESA DMT
1680 x 1050	60, 60RB, 75	Х	Х	Х	VESA DMT, CVT 1.76MA/1.76MA-R
1920 x 1080	60	Х	Х	Х	VESA DMT, CVT 2.07M9, SMPTE 274M

Technical Specifications – Graphics

1920 x 1200	60, 60RB, 75, 85	Х	Х	Х	DMT, CVT 2.30MA/2.30MA-R
1600 x 1200	60, 75, 85	Х	Х	Х	VESA DMT, 1.92M3
1920 x 1440	60, 75, 85	Х	Х	Х	VESA DMT, CVT 2.76M3
2048 x 1536	60,75	Х	Х	Х	CVT 3.15M3
2560 x 1440	59.951		Х	Х	CVT 3.69M9-R
2560 x 1600	60, 60RB		Х	Х	VESA DMT, CVT 4.10MA/4.10MA-R
3840 x 2160	24			Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	25			Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	30		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	60			Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
4096 x 2160	24			Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	25			Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	30			Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	60			Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
1920 x 1080	60		Х	Х	VESA (SMPTE 274M)
1920 x 1080	50		Х	Х	SMPTE 274M
1920 x 1080	30		Х	Х	SMPTE 274M
1920 x 1080	24		Х	Х	SMPTE 274M
1280 x 720	60		Х	Х	VESA (CEA-770.3)
1280 x 720	50		Х	Х	SMPTE 296M
720 x 480	60		Х	Х	MHL (CEA-770.2)
720 x 576	50		Х	Х	ITU-R BT.1358
640 x 480	60		Х	Х	CEA (VESA DMT)

^{* &}gt;60 refresh rates only for analog (VGA) signaling

NVIDIA® GeForce® GT 730 1GB PCIe x8 HDMI Graphics Card

Memory 1GB GDDR5 64-bit wide frame buffer operating at 2.5GHz.

Controller Clock Speed NVIDIA® Kepler™ GPU operating at 901 MHz

Multi-display Support A maximum of 2 displays are supported by the card

Graphics / API supportSupports Microsoft DirectX 12, OpenGL 4.4 and OpenCL 2 API, Shade Model 5 and DirectCompute

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Output Connectors 1 x Dual-Link DVI-I; 1x HDMI; Includes DVI to VGA adapter



Technical Specifications – Graphics

Supported Display Resolutions and Refresh Rates

Note: other resolutions may be available but are not recommended as they may not have been tested and qualified by HP

Resolution	Refresh Rate*	VGA (DVI-VGA adanter)	DVI-D	НДМІ	Standard
640 x 480	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.31M3
720 x 400	70	Х	Х	Х	IBM VGA
800 x 600	60, 75, 85	Х	Х	Х	VESA DMT, CVT0.48M3
1024 x 768	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.79M3
1152 x 864	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.83MA
1280 x 720	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.92M9, CEA-770.3
1280 x 768	60, 60RB, 75, 85	Х	Х	Х	VESA DMT, CVT 0.98M9/0.98M9-R
1280 x 800	60, 75, 85	Х	Х	Х	VESA DMT
1280 x 960	60, 75, 85	Х	Х	Х	VESA DMT
1280 x 1024	60, 75, 85	Х	Х	Х	VESA DMT, CVT 1.31M4
1366 x 768	60, 60RB	Х	Х	Х	VESA DMT
1440 x 900	60, 60RB	Х	Х	Х	VESA DMT
1600 x 900	60, 60RB, 75, 85	Х	Х	Х	VESA DMT
1680 x 1050	60, 60RB, 75	Х	Х	Х	VESA DMT, CVT 1.76MA/1.76MA-R
1920 x 1080	60	Х	Х	Х	VESA DMT, CVT 2.07M9, SMPTE 274M
1920 x 1200	60, 60RB, 75, 85	Х	Х	Х	DMT, CVT 2.30MA/2.30MA-R
1600 x 1200	60, 75, 85	Х	Х	Х	VESA DMT, 1.92M3
1920 x 1440	60, 75, 85	Х	Х	Х	VESA DMT, CVT 2.76M3
2048 x 1536	60,75	Х	Х	Х	CVT 3.15M3
2560 x 1440	59.951		Х	Х	CVT 3.69M9-R
2560 x 1600	60, 60RB		Х	Х	VESA DMT, CVT 4.10MA/4.10MA-R
3840 x 2160	24			Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	25			Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	30		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	50				CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	60				CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
4096 x 2160	24			Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M



Technical Specifications – Graphics

4096 x 2160 25 X CVT-RBv1/v2 (8.85M-R), SMPTE 274M 4096 x 2160 30 X CVT-RBv1/v2 (8.85M-R), SMPTE 274M 4096 x 2160 50 CVT-RBv1/v2 (8.85M-R), SMPTE 274M 4096 x 2160 60 CVT-RBv1/v2 (8.85M-R), SMPTE 274M 1920 x 1080 60 X X 1920 x 1080 50 X X 1920 x 1080 30 X X 1920 x 1080 30 X X 1920 x 1080 24 X X 1280 x 720 60 X X X 1280 x 720 50 X X X 720 x 480 60 X X X					
4096 x 2160 50 CVT-RBv1/v2 (8.85M-R), SMPTE 274M 4096 x 2160 60 CVT-RBv1/v2 (8.85M-R), SMPTE 274M 1920 x 1080 60 X X VESA (SMPTE 274M) 1920 x 1080 50 X X SMPTE 274M 1920 x 1080 30 X X SMPTE 274M 1920 x 1080 24 X X SMPTE 274M 1280 x 720 60 X X VESA (CEA-770.3) 1280 x 720 50 X X SMPTE 296M	4096 x 2160	25		Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160 60 CVT-RBv1/v2 (8.85M-R), SMPTE 274M 1920 x 1080 60 X X VESA (SMPTE 274M) 1920 x 1080 50 X X SMPTE 274M 1920 x 1080 30 X X SMPTE 274M 1920 x 1080 24 X X SMPTE 274M 1280 x 720 60 X X VESA (CEA-770.3) 1280 x 720 50 X X SMPTE 296M	4096 x 2160	30		Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
1920 x 1080 60 X X X VESA (SMPTE 274M) 1920 x 1080 50 X X SMPTE 274M 1920 x 1080 30 X X SMPTE 274M 1920 x 1080 24 X X SMPTE 274M 1280 x 720 60 X X VESA (CEA-770.3) 1280 x 720 50 X X SMPTE 296M	4096 x 2160	50			CVT-RBv1/v2 (8.85M-R), SMPTE 274M
1920 x 1080 50 X X X SMPTE 274M 1920 x 1080 30 X X SMPTE 274M 1920 x 1080 24 X X SMPTE 274M 1280 x 720 60 X X VESA (CEA-770.3) 1280 x 720 50 X X SMPTE 296M	4096 x 2160	60			CVT-RBv1/v2 (8.85M-R), SMPTE 274M
1920 x 1080 30 X X X SMPTE 274M 1920 x 1080 24 X X SMPTE 274M 1280 x 720 60 X X VESA (CEA-770.3) 1280 x 720 50 X X SMPTE 296M	1920 x 1080	60	Х	Х	VESA (SMPTE 274M)
1920 x 1080 24 X X X SMPTE 274M 1280 x 720 60 X X VESA (CEA-770.3) 1280 x 720 50 X X SMPTE 296M	1920 x 1080	50	Х	Х	SMPTE 274M
1280 x 720 60 X X X VESA (CEA-770.3) 1280 x 720 50 X X SMPTE 296M	1920 x 1080	30	Х	Х	SMPTE 274M
1280 x 720 50 X X SMPTE 296M	1920 x 1080	24	Х	Х	SMPTE 274M
	1280 x 720	60	Х	Х	VESA (CEA-770.3)
720 × 480 60 X X X MHI (CEA_770.2)	1280 x 720	50	Х	Х	SMPTE 296M
1720 X 400 00 X X MITE (CEA-170.2)	720 x 480	60	Х	Х	MHL (CEA-770.2)

^{* &}gt;60 refresh rates only for analog (VGA) signaling



Technical Specifications – Graphics

AMD Radeon™ RX 480 4GB Graphics Card Graphics Card

Memory 4GB 256-bit wide frame buffer operating at 1950 MHz.

Controller Clock Speed AMD Polaris GPU operating at 1266 MHz

Multi-display Support A maximum of 6 displays are supported by the card.

Graphics /API support DIRECTX 12, Open GL 4.5, Open CL 2.0; AMD Video Coding Engine (VCE) 3.4; AMD Universal

Video Decoder(UVD) 6.3

Output Connectors 3x Display Port, 1x HDMI

Supported Display Resolutions and Refresh Rates

Note: other resolutions may be available but are not recommended as they may not have been tested and qualified by HP

Resolution	Refresh Rate*	DisplayPort™ 1.2	нрмі	Standard
640 x 480	60, 75, 85	Х	Х	VESA DMT, CVT 0.31M3
720 x 400	70	Х	Х	IBM VGA
800 x 600	60, 75, 85	Х	Х	VESA DMT, CVT0.48M3
1024 x 768	60, 75, 85	Х	Х	VESA DMT, CVT 0.79M3
1152 x 864	60, 75, 85	Х	Х	VESA DMT, CVT 0.83MA
1280 x 720	60, 75, 85	Х	Х	VESA DMT, CVT 0.92M9, CEA-770.3
1280 x 768	60, 60RB, 75, 85	Х	Х	VESA DMT, CVT 0.98M9/0.98M9-R
1280 x 800	60, 75, 85	Х	Х	VESA DMT
1280 x 960	60, 75, 85	Х	Х	VESA DMT
1280 x 1024	60, 75, 85	Х	Х	VESA DMT, CVT 1.31M4
1366 x 768	60, 60RB	Х	Х	VESA DMT
1440 x 900	60, 60RB	Х	Х	VESA DMT
1600 x 900	60, 60RB, 75, 85	Х	Х	VESA DMT
1680 x 1050	60, 60RB, 75	Х	Х	VESA DMT, CVT 1.76MA/1.76MA-R
1920 x 1080	60	Х	Х	VESA DMT, CVT 2.07M9, SMPTE 274M
1920 x 1200	60, 60RB, 75, 85	Х	Х	DMT, CVT 2.30MA/2.30MA-R
1600 x 1200	60, 75, 85	Х	Х	VESA DMT, 1.92M3
1920 x 1440	60, 75, 85	Х	Х	VESA DMT, CVT 2.76M3
2048 x 1536	60,75	Х	Х	CVT 3.15M3
2560 x 1440	59.951	Х	Х	CVT 3.69M9-R



Technical Specifications – Graphics

2560 x 1600	60, 60RB	Х	х	VESA DMT, CVT 4.10MA/4.10MA-R
3840 x 2160	24	Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	25	Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	30	Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	50	Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	60	Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
4096 x 2160	24	Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	25	Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	30	Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	50	Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	60	Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
1920 x 1080	60	Х	Х	VESA (SMPTE 274M)
1920 x 1080	50	Х	Х	SMPTE 274M
1920 x 1080	30	Х	Х	SMPTE 274M
1920 x 1080	24	Х	Х	SMPTE 274M
1280 x 720	60	Х	Х	VESA (CEA-770.3)
1280 x 720	50	Х	Х	SMPTE 296M
720 x 480	60	Х	Х	MHL (CEA-770.2)

^{* &}gt;60 refresh rates only for analog (VGA) signaling

NVIDIA® GeForce® GTX 1060 3GB FH PCIe x16 Graphics Card

Memory 3GB GDDR5 192-bit wide frame buffer operating at 4 GHz.

Controller Clock Speed Nvidia Pascal GPU operating at 1506 MHz

Multi-display Support A maximum of 4 displays are supported by the card.

Graphics / API support DIRECTX 12, Open GL 4.5, Open CL1.2,

Output Connectors 1 x Dual-Link DVI-D, 3x DisplayPort™, 1x HDMI

Supported Display Resolutions and Refresh Rates

Note: other resolutions may be available but are not recommended as they may not have been tested and qualified by HP

		DVI-D	DisplayPort™	ІМДН	
Resolution	Refresh Rate*				Standard

Technical Specifications – Graphics

640 x 480	60, 75, 85	Х	Х	x	VESA DMT, CVT 0.31M3
720 x 400	70	Х	Х	Х	IBM VGA
800 x 600	60, 75, 85	Х	Х	Х	VESA DMT, CVT0.48M3
1024 x 768	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.79M3
1152 x 864	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.83MA
1280 x 720	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.92M9, CEA-770.3
1280 x 768	60, 60RB, 75, 85	Х	Х	Х	VESA DMT, CVT 0.98M9/0.98M9-R
1280 x 800	60, 75, 85	Х	Х	Х	VESA DMT
1280 x 960	60, 75, 85	Х	Х	Х	VESA DMT
1280 x 1024	60, 75, 85	Х	Х	Х	VESA DMT, CVT 1.31M4
1366 x 768	60, 60RB	Х	Х	Х	VESA DMT
1440 x 900	60, 60RB	Х	Х	Х	VESA DMT
1600 x 900	60, 60RB, 75, 85	Х	Х	Х	VESA DMT
1680 x 1050	60, 60RB, 75	Х	Х	Х	VESA DMT, CVT 1.76MA/1.76MA-R
1920 x 1080	60	Х	Х	Х	VESA DMT, CVT 2.07M9, SMPTE 274M
1920 x 1200	60, 60RB, 75, 85	Х	Х	Х	DMT, CVT 2.30MA/2.30MA-R
1600 x 1200	60, 75, 85	Х	Х	Х	VESA DMT, 1.92M3
1920 x 1440	60, 75, 85	Х	Х	Х	VESA DMT, CVT 2.76M3
2048 x 1536	60,75	Х	Х	Х	CVT 3.15M3
2560 x 1440	59.951	Х	Х	Х	CVT 3.69M9-R
2560 x 1600	60, 60RB	Х	Х	Х	VESA DMT, CVT 4.10MA/4.10MA-R
3840 x 2160	24		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	25		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	30	Х	Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	50		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	60		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
4096 x 2160	24		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	25		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	30		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	50		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	60		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
1920 x 1080	60	Х	Х	Х	VESA (SMPTE 274M)
1920 x 1080	50	Х	Х	Х	SMPTE 274M
1920 x 1080	30	Х	Х	Х	SMPTE 274M



Technical Specifications – Graphics

1920 x 1080	24	Х	Х	Х	SMPTE 274M
1280 x 720	60	Х	Х	Х	VESA (CEA-770.3)
1280 x 720	50	Х	Х	Х	SMPTE 296M
720 x 480	60	Х	Х	Х	MHL (CEA-770.2)

^{* &}gt;60 refresh rates only for analog (VGA) signaling

NVIDIA® GeForce® GTX 1070 8GB FH PCIe x16 Graphics Card

Memory 8GB GDDR5 256-bit wide frame buffer operating at 4 GHz.

Controller Clock Speed Nvidia Pascal GPU operating at 1506 MHz

Multi-display Support A maximum of 4 displays are supported by the card.

Graphics / API support DIRECTX 12, Open GL 4.5, Open CL1.2,

Output Connectors 1 x Dual-Link DVI-D, 3x DisplayPort™, 1x HDMI

Supported Display Resolutions and Refresh Rates

Note: other resolutions may be available but are not recommended as they may not have been tested and qualified by HP

		DVI-D	DisplayPort™	нрмі	
Resolution	Refresh Rate*				Standard
640 x 480	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.31M3
720 x 400	70	Х	Х	Х	IBM VGA
800 x 600	60, 75, 85	Х	Х	Х	VESA DMT, CVT0.48M3
1024 x 768	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.79M3
1152 x 864	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.83MA
1280 x 720	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.92M9, CEA-770.3
1280 x 768	60, 60RB, 75, 85	Х	Х	Х	VESA DMT, CVT 0.98M9/0.98M9-R
1280 x 800	60, 75, 85	Х	Х	Х	VESA DMT
1280 x 960	60, 75, 85	Х	Х	Х	VESA DMT
1280 x 1024	60, 75, 85	Х	Х	Х	VESA DMT, CVT 1.31M4
1366 x 768	60, 60RB	Х	Х	Х	VESA DMT
1440 x 900	60, 60RB	Х	Х	Х	VESA DMT
1600 x 900	60, 60RB, 75, 85	Х	Х	Х	VESA DMT
1680 x 1050	60, 60RB, 75	Х	Х	Х	VESA DMT, CVT 1.76MA/1.76MA-R



Technical Specifications – Graphics

1920 x 1080	60	Х	Х	Х	VESA DMT, CVT 2.07M9, SMPTE 274M
1920 x 1200	60, 60RB, 75, 85	Х	Х	Х	DMT, CVT 2.30MA/2.30MA-R
1600 x 1200	60, 75, 85	Х	Х	Х	VESA DMT, 1.92M3
1920 x 1440	60, 75, 85	Х	Х	Х	VESA DMT, CVT 2.76M3
2048 x 1536	60,75	Х	Х	Х	CVT 3.15M3
2560 x 1440	59.951	Х	Х	Х	CVT 3.69M9-R
2560 x 1600	60, 60RB	Х	Х	Х	VESA DMT, CVT 4.10MA/4.10MA-R
3840 x 2160	24		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	25		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	30	Х	Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	50		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	60		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
4096 x 2160	24		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	25		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	30		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	50		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	60		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
1920 x 1080	60	Х	Х	Х	VESA (SMPTE 274M)
1920 x 1080	50	Х	Х	Х	SMPTE 274M
1920 x 1080	30	Х	Х	Х	SMPTE 274M
1920 x 1080	24	Х	Х	Х	SMPTE 274M
1280 x 720	60	Х	Х	Х	VESA (CEA-770.3)
1280 x 720	50	Х	Х	Х	SMPTE 296M
720 x 480	60	Х	Х	Х	MHL (CEA-770.2)
		l			

^{* &}gt;60 refresh rates only for analog (VGA) signaling

NVIDIA® GeForce® GTX 1080 8GB FH PCIe x16 Graphics Card

Memory 8GB GDDR5X 256-bit wide frame buffer operating at 5 GHz.

Controller Clock Speed Nvidia Pascal GPU operating at 1607 MHz

Multi-display Support A maximum of 4 displays are supported by the card.

Graphics / API support DIRECTX 12, Open GL 4.5, Open CL1.2,

Output Connectors 1 x Dual-Link DVI-D, 3x DisplayPort™ 1.2, 1x HDMI



Technical Specifications – Graphics

Supported Display Resolutions and Refresh Rates

Note: other resolutions may be available but are not recommended as they may not have been tested and qualified by HP

Resolution	Refresh Rate*	DVI-D	DisplayPort™ 1.2	ндмі	Standard
640 x 480	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.31M3
720 x 400	70	Х	Х	Х	IBM VGA
800 x 600	60, 75, 85	Х	Х	Х	VESA DMT, CVTO.48M3
1024 x 768	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.79M3
1152 x 864	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.83MA
1280 x 720	60, 75, 85	Х	Х	Х	VESA DMT, CVT 0.92M9, CEA-770.3
1280 x 768	60, 60RB, 75, 85	Х	Х	Х	VESA DMT, CVT 0.98M9/0.98M9-R
1280 x 800	60, 75, 85	Х	Х	Х	VESA DMT
1280 x 960	60, 75, 85	Х	Х	Х	VESA DMT
1280 x 1024	60, 75, 85	Х	Х	Х	VESA DMT, CVT 1.31M4
1366 x 768	60, 60RB	Х	Х	Х	VESA DMT
1440 x 900	60, 60RB	Х	Х	Х	VESA DMT
1600 x 900	60, 60RB, 75, 85	Х	Х	Х	VESA DMT
1680 x 1050	60, 60RB, 75	Х	Х	Х	VESA DMT, CVT 1.76MA/1.76MA-R
1920 x 1080	60	Х	Х	Х	VESA DMT, CVT 2.07M9, SMPTE 274M
1920 x 1200	60, 60RB, 75, 85	Х	Х	Х	DMT, CVT 2.30MA/2.30MA-R
1600 x 1200	60, 75, 85	Х	Х	Х	VESA DMT, 1.92M3
1920 x 1440	60, 75, 85	Х	Х	Х	VESA DMT, CVT 2.76M3
2048 x 1536	60,75	Х	Х	Х	CVT 3.15M3
2560 x 1440	59.951	Х	Х	Х	CVT 3.69M9-R
2560 x 1600	60, 60RB	Х	Х	Х	VESA DMT, CVT 4.10MA/4.10MA-R
3840 x 2160	24		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	25		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	30	Х	Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	50		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
3840 x 2160	60		Х	Х	CVT-RBv1/v2 (8.29M9-R), SMPTE 274M
4096 x 2160	24		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M



Technical Specifications – Graphics

4096 x 2160	25		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	30		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	50		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
4096 x 2160	60		Х	Х	CVT-RBv1/v2 (8.85M-R), SMPTE 274M
1920 x 1080	60	Х	Х	Х	VESA (SMPTE 274M)
1920 x 1080	50	Х	Х	Х	SMPTE 274M
1920 x 1080	30	Х	Х	Х	SMPTE 274M
1920 x 1080	24	Х	Х	Х	SMPTE 274M
1280 x 720	60	Х	Х	Х	VESA (CEA-770.3)
1280 x 720	50	Х	Х	Х	SMPTE 296M
720 x 480	60	Х	Х	Х	MHL (CEA-770.2)
				1	

^{* &}gt;60 refresh rates only for analog (VGA) signaling

Technical Specifications – Hard Disk and Solid State Storage

HARD DISK AND SOLID STATE STORAGE

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

Flexible implementation:

- RAID 0 (Striping)
- RAID 1 (Mirroring)
- Configurable email alerts
- RAID management software
- DPS Self-Test can be executed on physical hard drives while in RAID mode.
- The RAID Setup Utility (accessed through CTRL-R) can be protected by the F10 Setup password.

NOTE:

- HP tests and supports RAID 0.
- RAID 1 is the only RAID configuration offered via factory configurations. The pre-configured systems:
 - Are only available on the SFF and TWR form factors. The DM form factors do not support RAID as they do not allow for multiple common storage drives.
 - o Are complete RAID systems and have both drives installed.
 - Have the necessary Option ROM configuration.
 - o Include a preinstalled operating system that is mirrored mode out of the box.

HP 1 TB 7.2K SATA 6.0Gb/s 2.5" Hard Disk Drive						
Capacity	1,000,204,886,016 by	ytes				
Rotational Speed	7,200 rpm					
Interface	SATA 6 Gb/s	SATA 6 Gb/s				
Buffer Size	32 MB					
Logical Blocks	1,953,525,168					
Carlo Time (to a include	Single Track:	2.0 ms				
Seek Time (typical reads, includes controller overhead, including controller)	Average:	12 ms				
including settling)	Full-Stroke:	25 ms				
Height (nominal)	0.374 in/9.5 mm					
Middle (no minut)	Media diameter: 2.5 in/63.5 mm					
Width (nominal)	Physical size: 2.75 in/70 mm					
Operating Temperature	41° to 131° F (5° to	41° to 131° F (5° to 55° C)				



Technical Specifications – Hard Disk and Solid State Storage

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

HP 500 GB 7.2K SATA 6.0Gb/s 2.5" Hard Disk Drive*						
Capacity	500,107,862,016 bytes	5				
Rotational Speed	7,200 rpm					
Interface	SATA 6 Gb/s	SATA 6 Gb/s				
Buffer Size	16 MB					
Logical Blocks	976,773,168					
Cook Time (topical yands	Single Track:	2.0 ms				
Seek Time (typical reads, includes controller overhead, including settling)	Average:	12 ms				
including setting/	Full-Stroke:	25 ms				
Height (nominal)	0.267 in/6.8 mm					
Width (nominal)	Media diameter: 2.5 in/63.5 mm					
Width (nominal)	Physical size: 2.75 in/70 mm					
Operating Temperature	41° to 131° F (5° to 55° C)					

500GB* 7.2K rpm SATA 6.0Gb/s 3.5" Hard Disk Drive					
Formatted Capacity	500,107,862,016 b	500,107,862,016 bytes			
Spindle Speed	7,200 rpm	7,200 rpm			
Interface	Serial ATA 3.0 (6.0 (Serial ATA 3.0 (6.0 Gb/s)			
Buffer Size	16 MB	16 MB			
Logical Blocks	976,773,168	976,773,168			
	Single Track:	2.0 ms			
Seek Time (average)	Average:	11 ms			
	Full-Stroke:	21 ms			



Technical Specifications – Hard Disk and Solid State Storage

Height (nominal)	1 in/2.54 cm	
hate to L. ()	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)	

HP 1 TB* 7.2K rpm SATA 6.0Gb/s 3.5" Hard Disk Drive*				
Formatted Capacity	1,000,204,886,016 bytes	1,000,204,886,016 bytes		
Rotational Speed	7,200 rpm			
Interface	Serial ATA 3.0 (6.0 Gb/s)	Serial ATA 3.0 (6.0 Gb/s)		
Buffer Size	32 MB	32 MB		
Logical Blocks	1,953,525,168	1,953,525,168		
	Single Track:	2.0 ms		
Seek Time (average)	Average:	11 ms		
Full-Stroke: 21 ms		21 ms		
Height (nominal)	1 in/2.54 cm	1 in/2.54 cm		
Midth (naminal)	Media diameter: 3.5 in/8.89	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)			

^{*} 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.

HP 2 TB* 7.2K rpm SATA 6.0Gb/s 3.5" Hard Disk Drive*			
Formatted Capacity	2 TB		
Rotational Speed	7,200 rpm		
Interface	SATA 6Gb/s NCQ		
Cache, Multisegmented (MB)	64 MB		
Seek Time (average)	Read	<8.5 ms	
Seek Time (average)	Write <9.5 ms		



Technical Specifications – Hard Disk and Solid State Storage

Height	1.028 in/26.11 mm
Width	4.0 in/101.6 mm
Depth	5.787 in/146.99 mm
Weight	1.38 lb/626 g
Operating Temperature	32° to 140° F (0° to 60° C)

*NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) and 36 GB (for Windows 8.1/10) of system disk is reserved for the system recovery software.

HP 500 GB SATA 6G 2.5"	8GB Solid State	Hybrid Drive (SSHD)*		
Formatted Capacity	500 GB	500 GB		
Spindle Speed	5,400 rpm +/- 0.29	%		
Drive Type	Solid State Hybrid	Drive (SSHD) technology with NAND Flash		
Interface	SATA 6 Gb/s			
Cache Buffer	64 MB	64 MB		
NAND Flash Commercial Multilevel Cell (cMLC)	8 GB			
Number of Sectors	976,773,168	976,773,168		
/	Single Track:	2.0 ms		
Seek Time (typical reads)	Average: 12 ms			
Height	0.268 +/008 in (6	0.268 +/008 in (6.8 +/- 0.2 mm)		
Width	2.750 +/- 0.010 in	2.750 +/- 0.010 in (69.85 +/- 0.25 mm)		
Length	3.951 +0.008 / -0.010 in (100.35 +0.20 / -0.25 mm)			
Weight	0.209 lb/95 g (max)			
Operating Temperature	41° to 131° F (5° to	41° to 131° F (5° to 55° C)		



HP 1 TB* SATA 6G 2.5'	' 8GB Solid State	Hybrid Drive (SSHD)*		
Formatted Capacity	1 TB			
Spindle Speed	5,400 rpm +/- 0.2%			
Drive Type	Solid State Hybrid Dr	ive (SSHD) technology with NAND Flash		
Interface	SATA 6 Gb/s			
Cache Buffer	64 MB	64 MB		
NAND Flash Commercial Multilevel Cell (cMLC)	8 GB			
Number of Sectors	976,773,168	976,773,168		
Cook Time (Amelical mode)	Single Track:	2.0 ms		
Seek Time (typical reads)	Average:	12 ms		
Height	0.374 +/008 in (9.5	0.374 +/008 in (9.5 +/- 0.2 mm)		
Width	2.750 +/- 0.010 in (69.85 +/- 0.25 mm)			
Length	3.951 +0.008 / -0.010 in (100.35 +0.20 / -0.25 mm)			
Weight	0.254 lb/115 g (max)			
Operating Temperature	32° to 140° F (0° to 60° C)			
		TD = 1 trillian butas. Actual formanted annuality is loss. He to 10 CD		

^{*} For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) and 36 GB (for Windows 8.1/10) of system disk is reserved for the system recovery software.

HP 1-TB SATA 6G 3.5" 8GB Solid State Hybrid Drive (SSHD)*				
Formatted Capacity	1 TB			
Spindle Speed	7,200 rpm	7,200 rpm		
Drive Type	Solid State Hybrid D	Solid State Hybrid Drive (SSHD) technology with NAND Flash		
Interface	Serial ATA (SATA)	Serial ATA (SATA)		
Cache Buffer	64 MB	64 MB		
NAND Flash Multilevel Cell (MLC)	8 GB	8 GB		
Number of Sectors	1,953,525,168	1,953,525,168		
Seek Time (typical reads)	Single Track:	2.0 ms		

Technical Specifications – Hard Disk and Solid State Storage

	Average:	11 ms
Height	0.783 in / 2.01 cm	
Width	4 in / 10.2 cm	
Length	5.79 in / 14.7 cm	
Weight	0.88 lb/400 g	
Operating Temperature	41° to 131° F (5° to 55° (C)

500GB* 2.5" FIPS 140-2 SED Solid State Drive*			
Formatted Capacity	500 GB		
Architecture	Self-Encrypting (SED) Solid State Drive with SATA interface.		
Interface	Serial ATA (6.0 Gb/s)		
Form Factor	2.5 inch		
Height	6.80 mm ± 0.20		
Width	69.85 mm ± 0.25		
Length	100.35 mm ± 0.25/0.20		
Weight (typical)	<95 g (0.209 lb)		
Bandwidth Performance	Sustained data transfer rate OD 100 MB/s max		
	I/O data-transfer rate 600 MB/s max		
Power	Spinup (max): 1.00A Power consumption: Idle, active: 0.70W Sleep 0.18W		
Environmental	Operating Temperature:		32° to 140° F (0° to 60° C)
(all conditions, non-condensing)	Relative Humidity:		5% to 95%

Technical Specifications – Hard Disk and Solid State Storage

	Shock:	Maximum 400 G/2 ms
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256GB* TLC SED SSD 2.5'	'FIPS Drive*		
Unformatted Capacity	256 GB		
Architecture	Self-Encrypting (SED) Sol	id State Drive with SA	ΓA interface.
Interface	Serial ATA (6.0 Gb/s)		
Form Factor	2.5 inch		
Height	7 mm		
Width	69.85 mm		
Length	100.45 mm		
Weight (typical)	10 g (0.022 lb) max		
Bandwidth Performance	Sequential read (128KB transfer)	530	
	Sequential write (128KB transfer)	500	
	Random read (4KB transfer)	55,000	
	Random write (4KB transfer)	ite (4KB 83,000	
Power	SATA Power consumption	Sleep Typical: 2mw Idle, average: 55mw Active, average: 70mW Active maximum (128KB transfer): 3000 mW	
	Operating Temperatu	ıre	32° to 158° F (0° to 70° C)

Technical Specifications – Hard Disk and Solid State Storage

Environmental (all conditions, non-condensing)	Relative Humidity	5% to 95%
	Non-operating Shock	1500 G/0.5ms
	Non-operating Vibration	5-800Hz @ 3.10G

512GB* TLC SED SSD 2.5" FIPS Drive*				
Unformatted Capacity	512 GB	512 GB		
Architecture	Self-Encrypting (SED) Sol	lid State Drive with SATA interface.		
Interface	Serial ATA (6.0 Gb/s)			
Form Factor	2.5 inch			
Height	7 mm			
Width	69.85 mm	69.85 mm		
Length	100.45 mm	100.45 mm		
Weight (typical)	10 g (0.022 lb) max	10 g (0.022 lb) max		
Bandwidth Performance	Sequential read (128KB transfer)	5 5 1 5 1		
	Sequential write (128KB transfer)	500		
	Random read (4KB transfer)	92,000		
	Random write (4KB transfer)	1 83 000		
Power	SATA Power consumption			



Technical Specifications – Hard Disk and Solid State Storage

		Active, average: 70mW Active maximum (128KB transfer): 4000 mW	
Environmental (all conditions, non-condensing)	Relative Humidity		32° to 158° F (0° to 70° C)
(all conditions, non-conditions,			5% to 95%
			1500 G/0.5ms
	Non-operating Vibrat	ion	5-800Hz @ 3.10G

256GB Turbo Drive G2 TLC Solid State Drive			
Unformatted Capacity	256 GB		
Architecture	Solid State Drive with TLC NAND Flash and PCIE interface. Complies with NVMe Standard Power Saving Modes: L1 substates support Multi Queue support		
Interface	PCI-E Gen3 x 4		
Form Factor	M.2 2280		
Height	3.73 mm		
Width	22.00 ± 0.15 mm		
Length	80.00 ± 0.15 mm		
Weight	Up to 8 g		
Bandwidth Performance	Sustained Sequential Read: Up to 2600 MB/s		
	Sustained Sequential Write: Up to 1000 MB/s		
Power	Active: Typical 6.1W; Power consumption: Idle: Typical 80mW L1.2: Typical 5mW		



Mean Time Between Failure (MTBF)	1,500,000 hours		
Environmental (all conditions, non-condensing)	Operating Temperature:	32° to 158° F (0° to 70° C)	
	Relative Humidity:	5% to 95%	
	Shock:	1,500 G/0.5 ms	

512GB Turbo Drive G2 TLC So	olid State Drive		
Unformatted Capacity	512 GB		
Architecture	Solid State Drive with TLC NAND Flash and PCIE interface. Complies with NVMe Standard Power Saving Modes: L1 substates support Multi Queue support		
Interface	PCI-E Gen3 x 4		
Form Factor	M.2 2280		
Height	3.73 mm		
Width	22.00 ± 0.15 mm		
Length	80.00 ± 0.15 mm		
Weight	Up to 8 g		
Bandwidth Performance	Sustained Sequential Read:	Into 2600 MB/s	
	Sustained Sequential Write: Up to 1200 MB/s		
Power	Active: Typical 6.1W; Power consumption: Idle: Typical 80mW L1.2: Typical 5mW		! ;
Mean Time Between Failure (MTBF)	1,500,000 hours		
Environmental	Operating Temperature: Relative Humidity:		32° to 158° F (0° to 70° C)
(all conditions, non-condensing)			5% to 95%

	Shock:	1,500 G/0.5 ms	

Unformatted Capacity	1 TB		
	Solid State Drive with TLC NAND Flash and PCIE interface.		
Architecture	Complies with NVMe Sta	ndard	
	Power Saving Modes: L1	substates support	
	Multi Queue support		
nterface	PCI-E Gen3 x 4		
Form Factor	M.2 2280		
Height	3.73 mm		
Width	22.00 ± 0.15 mm		
ength	80.00 ± 0.15 mm		
Weight	Up to 8 g		
Bandwidth Performance	Sustained Sequential Read:	Up to 2600 MB/s	
	Sustained Sequential Write: Up to 1400 MB/s		
		Active: Typical 6.1W	;
Power	Power consumption:	Idle: Typical 80mW	
	L1.2: Typical 5mW		
1ean Time Between Failure (MTBF)	1,500,000 hours		
nvironmental	Operating Temperature:		32° to 158° F (0° to 70° C
all conditions, non-condensing)	Relative Humidity:		5% to 95%
	Shock:		1,500 G/0.5 ms

Unformatted Capacity	500GB			
Architecture	Self-Encrypting (SED) Solid St	ate Drive with 25nm MLC NAND Flash and SATA interface		
Interface	Serial ATA 2.0 (3.0 Gb/s)			
NAND Flash	25nm MLC NAND Flash			
Height	.275 in/7mm			
Width	2.75 in/69.85 mm			
Length	3.95 in/100.5 mm			
Weight	0.161 lb (73 g)			
Bandwidth Performance	Sustained Sequential 128k Read:	Up to 450 MB/s		
	Sustained Sequential 128k Write:	Up to 260 MB/s		
	Random 4k Read: Up to 46K IOPs Random 4k Write: Up to 56K IOPs			
Latency	Read: 55 µs			
	Write:	55 μs		
Power	SATA power consumption:	160 mW (active average); <85 mW (idle average)		
Useful Drive Life	72TB written, up to 40GB/day	for 5 years		
	Operating Temperature: 32° to 158° F (0° to 70° C)			
Environmental (all conditions, non-condensing)	Relative Humidity: 5% to 95%			
	Shock: 1,500 G/1 ms			

Technical Specifications – Hard Disk and Solid State Storage

*NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) and 36 GB (for Windows 8.1/10) of system disk is reserved for the system recovery software.

Hufamattad Canadita	256 GB	256 GB			
Unformatted Capacity	500,118,192 (User Addr	essable Sectors)			
Architecture	Self-Encrypting (SED) So	olid State Drive with NAI	ND Flash and SATA interface.		
Aichitecture	Trusted Computing Grou	up (TCG) OPAL 2.0 comp	liant encrypted solid state drive		
Interface	Serial ATA (6.0 Gb/s)				
Form Factor	2.5 inch				
Height	6.80 mm ± 0.20				
Width	69.85 mm ± 0.25				
Length	100.20 mm ± 0.25				
Typical Weight	37.4 g				
Bandwidth Performance	Sustained Sequential Read:	Up to 520 MB/s			
	Sustained Sequential Write:	Up to 460 MB/s			
Power	Power consumption:	Active: 3.891W; Idle	: 0.085W		
Mean Time Between Failure (MTBF)	1,500,000 hours				
Environmental (all conditions, non-condensing)	Operating Temperature:		32° to 158° F (0° to 70° C)		
au conditions, non-condensing)	Relative Humidity:		5% to 95%		
	Shock: 1,500 G/0.5 ms				

*NOTE: For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) and 36 GB (for Windows 8.1/10) of system disk is reserved for the system recovery software.

512 GB SATA 2.5" TLC SED SSD Opal 2 Drive*



Technical Specifications – Hard Disk and Solid State Storage

Unformatted Capacity	512 GB 1,000,215,216 (User Addressable Sectors)				
Architecture	1	Self-Encrypting (SED) Solid State Drive with NAND Flash and SATA interface. Trusted Computing Group (TCG) OPAL 2.0 compliant encrypted solid state drive			
Interface	Serial ATA (6.0 Gb/s)				
Form Factor	2.5 inch				
Height	7 mm ± 0.20				
Width	69.85 mm ± 0.25				
Length	100.20 mm ± 0.25				
Typical Weight	37.4 g				
Bandwidth Performance	Sustained Sequential Up to 515 MB/s Read:				
	Sustained Sequential Write: Up to 490 MB/s				
Power	Maximum active power: ≤4,400mW Power consumption: Average power: 70mW Slumber low power mode: 42mW – 52mW				
Mean Time Between Failure (MTBF)	Up to 1,750,000 hours				
Environmental	Operating Temperature: 0°C to 70°C (32°F to 158°F)		0°C to 70°C (32°F to 158°F)		
(all conditions, non-condensing)	Non-operating temperature and storage		-55°C to +85°C (-67°F to 185°F)		
	Operating and non-operating shock 1,500 G/0.5 ms				

512GB Turbo Drive G2 TLC OPAL2.0 SED Solid State Drive		
Unformatted Capacity 512 GB		



Architecture	Solid State Drive with TLC NAND Flash and PCIE interface. Complies with NVMe Standard Power Saving Modes: L1 substates support Multi Queue support TCG OPAL2.0 compliance		
Interface	PCI-E Gen3 x 4		
Form Factor	M.2 2280		
Height	3.73 mm		
Width	22.00 ± 0.15 mm		
Length	80.00 ± 0.15 mm		
Weight	Up to 8 g		
Bandwidth Performance	Sustained Sequential Up to 2200 MB/s Read:		
	Sustained Sequential Write: Up to 1000 MB/s		
Power	Active: Typical 6.1W; Power consumption: Idle: Typical 40mW L1.2: Typical 5mW		V;
Mean Time Between Failure (MTBF)	1,500,000 hours		
Environmental	Operating Temperature: 32° to 158°		32° to 158° F (0° to 70° C)
(all conditions, non-condensing)	Relative Humidity:		5% to 95%
	Shock: 1,500 G/0.5 ms		1,500 G/0.5 ms

128GB SATA 2.5" Value (Non-SED) Solid State Drive	
Unformatted Capacity	128 GB
Architecture	TLC NAND Flash
Interface	SATA 3.2 (6.0 Gb/s)



Technical Specifications – Hard Disk and Solid State Storage

Form Factor	2.5 inch		
Dimensions (W x D x H)	6.98 x 10.05 x 0.7 cm		
Weight	31g		
Bandwidth Performance	Sustained Sequential Read:	Up to 510 MB/s	
	Sustained Sequential Write:	Up to 330 MB/s	
	Random Read:	Up to 38K IOPs	
	Random Write:	Up to 70K IOPs	
Power	DC power requirement:	5 VDC 5%-100 mV ripple p-p	
	Total power 50mW (active); 20mW (idle) consumption:		W (idle)
Useful Drive Life	72TB written, up to 40GB/day for 5 years		
Environmental	Operating Temperature: 32° to 158° F (0° to 70° C)		32° to 158° F (0° to 70° C)
(all conditions, non-condensing)	Relative Humidity:		5% to 95%
	Shock: 1,500 G/0.5 ms		1,500 G/0.5 ms

256GB SATA 2.5" Value (Non-SED) Solid State Drive		
Unformatted Capacity	ed Capacity 256 GB	
Architecture	TLC NAND Flash	
Interface	SATA 3.2 (6.0 Gb/s)	
Form Factor	2.5 inch	
Dimensions (W x D x H)	6.98 x 10.05 x 0.7 cm	
Weight	31g	



Technical Specifications – Hard Disk and Solid State Storage

Bandwidth Performance	Sustained Sequential Read:	Up to 510 MB/s	
	Sustained Sequential Write:	Up to 330 MB/s	
	Random Read:	Up to 38K IOPs	
	Random Write:	Up to 70K IOPs	
Power	DC power requirement:	5 VDC 5%-100 mV ripple p-p	
	Total power consumption:	50mW (active); 20m	w (idle)
Useful Drive Life	72TB written, up to 40GB/day for 5 years		
Environmental	Operating Temperature:		32° to 158° F (0° to 70° C)
(all conditions, non-condensing)	Relative Humidity:		5% to 95%
	Shock:		1,500 G/0.5 ms

256GB SATA 2.5" TLC Solid State Drive		
Formatted Capacity	256 GB	
Architecture	Solid State Drive with SATA interface; ATA 8 Compliant and SATA 2.6 compliant	
Interface	Serial ATA 3 (6.0 Gb/s)	
Form Factor	2.5 inch	
Height	7 mm ± 0.20	
Width	69.85 mm ± 0.25	
Length	100.2 mm ± 0.25	
Weight (typical)	36.5 g (+2)	

Data Transfer Rate	Sequential Read	Up to 500 MB/s	
(128k Sequential)	Sequential Write	Up to 455 MB/s	
Power Watts	Power consumption (avg):	Read: 95 mW Write: 95 mW Standby: 70 mW DEVSLP: <7 mW	
Environmental (all conditions, non-condensing)	Operating Temperature:		32° to 158° F (0° to 70° C)
(all conditions, non-condensing)	Relative Humidity:		5% to 95%
	Shock (2 m Sec half-sine):		1500 G peak 0.5ms (operating)

512 GB SATA 2.5" TLC Solid State Drive*				
Formatted Capacity	512 GB	512 GB		
Architecture	Solid State Drive with SA	ATA interface; ATA 8 Co	mpliant and SATA 2.6 compliant	
Interface	Serial ATA 3 (6.0 Gb/s)			
Form Factor	2.5 inch			
Height	7 mm ± 0.20			
Width	69.85 mm ± 0.25	69.85 mm ± 0.25		
Length	100.2 mm ± 0.25	100.2 mm ± 0.25		
Weight (typical)	36.5 g (+2)			
Data Transfer Rate (128k Sequential)	Sequential Read	Sequential Read Up to 500 MB/s		
(120k Sequential)	Sequential Write	Up to 455 MB/s		
Power Watts	Read: 95 mW Power consumption (avg): Standby: 70 mW DEVSLP: <7 mW			
	Operating Temperature	:	32° to 158° F (0° to 70° C)	



Technical Specifications – Hard Disk and Solid State Storage

Environmental (all conditions, non-condensing)	Relative Humidity:	5% to 95%
	Shock (2 m Sec half-sine):	1500 G peak 0.5ms (operating)



Technical Specifications – Optical Disk Drives

HP 9.5mm G3 800/600 Tower DVD-Writer HP 9.5mm G3 8/6/4 SFF G4 400 Microtower DVD-Writer

HP 9.5mm AIO 800 G3 Slim DVD-Writer

TP 3.5IIIIII AIU 600 G	J Julii D A D-AA1 i Cei			
Height	9.5 mm height	9.5 mm height		
Orientation	Either horizontal or vertical			
Interface type	SATA/ATAPI	SATA/ATAPI		
Disc recording capacity	Up to 8.5 GB DL or 4.7 GB sta	andard		
Dimensions (W \times D \times H)	5.04 x 5.0 in x 0.37 (128 x 12	27 x 9.5 mm) without bezel		
Weight (max)	0.31 lb (140 g)			
	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		
Other Media	M disc	DVD media for storage preservation		
Access time	Random	DVD-ROM: 170 ms (typical), CD-ROM: 170 ms (typical)		
(typical reads, including	Full Stroke	DVD-ROM: 320 ms (typical), CD-ROM: 320 ms (typical)		
settling)	Stop Time	6 seconds (typical)		
	Source	Slimline SATA DC power receptacle		
	DC Power Requirement	5 VDC ± 5%-100 mV ripple p-p		
Power				
	DC Current	5 VDC (< 1000 mA typical, 1600 mA maximum)		





Technical Specifications – Optical Disk Drives

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

HP 9.5mm G3 800/600 Tower DVD-ROM Drive HP 9.5mm G3 800/600/400 SFF G4 400 Microtower DVD-ROM Drive HP 9.5mm AIO 800 G3 Slim DVD-ROM Drive

Height	9.5mm		
Orientation	Either horizontal or vertical		
Interface type	SATA/ATAPI		
Dimensions (W \times D \times H)	5.04 x 5.0 x 0.37 in (128 x 127 x	9.5 mm) without bezel	
Weight (max)	Up to 0.31 lb (140g) without be	zel	
	DVD+R/-R/+RW/ Up to 8X -RW/+R DL /-R DL		
Read speeds	DVD-ROM	Up to 8X	
	CD-ROM, CD-R	Up to 24X	
	CD-RW	Up to 24X	
Access time	Random	DVD-ROM: 170 ms (typical), CD-ROM: 170 ms (typical)	
(typical reads, including settling)	Full Stroke	DVD-ROM: 320 ms (typical), CD-ROM: 320 ms (typical)	
	Source	Slimline SATA DC power receptacle	
Power	DC Power Requirement	5 VDC ± 5%-100 mV ripple p-p	
	DC Current	5 VDC - <1000 mA typical, < 1600 mA maximum	
	Temperature	41° to 122° F (5° to 50° C)	
Environmental (all conditions	Relative Humidity	10% to 80%	
non-condensing)	Maximum Wet Bulb Temperature (operating)	84° F (29° C)	



Technical Specifications – Memory

System Memory Support

The HP EliteDesk 800 G3 Business PC supports DDR4 protocols with two independent, 64-bit wide channels each accessing one or two DIMMs.

- Two channels of non-ECC DDR4 unbuffered dual in-line memory modules (UDIMM) or DDR4 unbuffered small outline dual in-line memory modules (SO-DIMM) with a maximum of two DIMMs per channel
- Single-channel and dual-channel memory organization modes
- Data burst length of eight for all memory organization modes
- Memory data transfer rates of up to 2400 MT/s; actual supported data transfer rate determined by the configured processor.
- 64-bit wide channels
- DDR4 system memory I/O voltage of 1.2V
- Theoretical maximum memory bandwidth of:
 - o 21.3 GB/s in dual-channel mode assuming 1333 MT/s
 - 25.6 GB/s in dual-channel mode assuming 1600 MT/s
 - o 34.0 GB/s in dual-channel mode assuming 2133 MT/s
 - o 38.4 GB/s in dual-channel mode assuming 2400 MT/s

Platform Memory Support

• The Small Form Factor (SFF) and Microtower (MT) platforms support up to four (4) industry-standard DDR4-SDRAM DIMMs.

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

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.





Technical Specifications - Networking and Communications

NETWORKING AND COMMUNICATIONS

Intel® I219LM Gigabit	Network Connection LOM (standard)	
Connector	RJ-45	
System Interface	PCIe + SMBus	
Controller	Intel® I219LM Gigabit Ethernet Controller	
Data rates supported	Supports operation at 10/100/1000 Mb/s data rates	
IEEE Compliance	IEEE 802.3 Ethernet interface for 1000BASE-T, 100BASETX, and 10BASET applications (802.3ab, 802.3u, and 802.3i, respectively). EEE 802.3az support [Low Power Idle (LPI) mode] IEEE 802.3u auto-negotiation conformance	
Performance	Jumbo Frames (up to 9 kB) 802.1Q & 802.1p Receive Side Scaling (RSS) Two Queues (Tx & Rx)	
Power	 Ultra Low Power at cable disconnect (<1 mW) enables platform support for connected standby Reduced power consumption during normal operation and power down modes Integrated Intel® Auto Connect Battery Saver (ACBS) Single-pin LAN Disable for easier BIOS implementation Fully integrated Switching Voltage Regulator (iSVR) Low Power Link-Up (LPLU) 	
MAC/PHY Interconnect	 PCIe-based interface for active state operation (SO state) SMBus-based interface for host and management traffic (Sx low power state) 	
Management Interface	MDC/MDIO management interface	
Security & Manageability	• Intel® vPro™ support with appropriate Intel® chipset components	

Intel® Ethernet I210-T1 Gigabit Network Card		
Connector	RJ-45	
System Interface	PCI Express x1	
Controller	Intel® I210 Gigabit Ethernet Controller	
Memory	Integrated Dual 48K configurable transmit receive FIFO Buffers	
Data rates supported	10/100/1000 Mbps	





IEEE Compliance	802.1P 802.1Q 802.2 802.3 802.3AB 802.3u 802.3x flow control			
Bus architecture	PCI-E 2.1			
Data path width	X1, 250 MB/s, Bi-directional inte	X1, 250 MB/s, Bi-directional interface		
Data transfer mode	Bus-master DMA			
Hardware certifications	FCC, B, CE, TUV-c, TUVus Mark C	FCC, B, CE, TUV-c, TUVus Mark Canada and United States, TUV-GS Mark for European Union		
Power requirement	Aux 3.3 V, 3.0 Watts in 1000 bas	Aux 3.3 V, 3.0 Watts in 1000 base-T and 1.0 Watts in 100 Base-T		
Boot ROM support	Yes			
	10BASE-T (half-duplex) 10 Mbps			
	10BASE-T (full-duplex) 20 Mbps			
Network Transfer Rate	100BASE-TX (half-duplex) 100 Mbps			
	100BASE-TX (full-duplex) 200 Mbps			
	1000BASE-T (full-duplex) 2000 Mbps (actual rate limited by PCI Bus)			
Environmental	Operating Temperature:	32° to 131°F (0° to 55° C)		
	Operating Humidity:	85% at 131° F (55° C)		
Management	WOL, PXE, DMI, WFM 2.0			

Intel® 8265 802.11ac 2x2 WiFi + Bluetooth® M.2 Combo Card* (802.11AC Wave 2 supported)			
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		
	Note:		
	The FCC has declared as of January 1, 2015 products that utilize		
	passive scanning on channel 12/13 and are capable of transmitting		
	must fully comply with requirements of 15.247 or otherwise		
	disable those channels.		
	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		

	Note: Indonesia no support this band)
Data Rates	802.11b: 1, 2, 5.5, 11 Mbps
Data Nates	• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
	the state of the s
	802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz) 802.11ac MCS MCS
	 802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, and 80MHz)
Modulation	·
Modulation	Direct Sequence Spread Spectrum
Security ¹	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
Security	 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: +16dBm minimum
	802.11g: +14dBm minimum
	• 802.11a:+14dBm minimum
	802.11n HT20(2.4GHz): +14dBm minimum
	802.11n HT40(2.4GHz): +12dBm minimum
	802.11n HT20(5GHz): +14dBm minimum
	802.11n HT40(5GHz): +12dBm minimum
Power Consumption	Transmit: 2.0 W (max)
Power Consumption	Receive: 1.6 W (max)
	Idle mode (PSP): 180 mW (WLAN Associated)
	Idle mode: 50 mW (WLAN unassociated)
	Connect Standby: 10 mW (WLAN+BT)
	Radio disabled: 30 mW
Power Management	ACPI and PCI Express compliant power management
1 one Hanagement	802.11 compliant power saving mode
Receiver Sensitivity ³	802.11b, 1Mbps : -94dBm maximum
,	802.11b, 11Mbps : -86dBm maximum
	802.11g, 6Mbps : -88dBm maximum
	802.11g, 54Mbps : -74dBm maximum
	802.11a, 6Mbps : -88dBm maximum
	802.11a, 54Mbps : -74dBm maximum
	802.11n, MCS07 : -69dBm maximum
	802.11n, MCS15 : -66dBm maximum
	802.11ac, 1SS, MCS-0 : -86dBm maximum
	802.11ac, 1SS, MCS-9 : -61dBm maximum
	802.11ac, 2SS, MCS-0: -83dBm maximum
	802.11ac, 2SS, MCS-9 : -58dBm maximum
Antenna type	High efficiency antenna with spatial diversity, mounted in the
	display enclosure
	Two embedded dual band 2.4/5 GHz antennas are provided to the
	card to support WLAN MIMO communications and Bluetooth®
	communications



Ţ					
Form Factor	PCI-Express M.2 M	iniCard			
Dimensions	Type 2230: 2.3 x 22.0 x 30.0 mm				
	0r				
	Type 1630 : 2.3 x 1	16.0 x 30.0 mm			
Weight	Type 2230 : 2.8g				
	0r	Type 1630 : 2g 3.3v +/- 9%			
Operating Voltage	3.3v +/- 9%				
Temperature	Operating	14° to 158° F (-	·		
	Non-operating	–40° to 176° F			
Humidity	Operating	-	on-condensing)		
	Non-operating	5% to 95% (no			
Altitude	Operating	0 to 10,000 ft (· •		
	Non-operating	0 to 50,000 ft			
LED Activity	LED Amber – Radi				
1. Check latest software/dr					
2. Maximum output power i					
3. Receiver sensitivity is me			802.11b (CKK modulation) and a	
packet error rate of 10%					
HP Integrated Module with Blueto	oth® 4.0/4.1/4.2 Wire	less Technology			
Bluetooth® Specification	4.0/4.1/4.2 Complia	ant			
Frequency Band	2402 to 2480 MHz				
Number of Available Channels	Legacy : 0~79 (1 Mi	Hz/CH)			
Trainisci of Italianicis	BLE: 0~39 (2 MHz/				
Data Rates and Throughput			ut up to 2 17 Mbpc		
Data Kates and Timougnput	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps BLE : 1 Mbps data rate; throughput up to 0.2 Mbps				
			· · · · · · · · · · · · · · · · · · ·		
		us Connection O	riented links up to 3, 64 k	bps,	
	voice channels				
Transmit Power		The Bluetooth® component shall operate as a Class II Bluetooth®			
			wer of +4 dBm for BR and	EDR.	
Receiver Sensitivity	Modulation	0.01% BER	0.001% BER		
	GFSK	-80 dBm	-70 dBm		
	π/4-DQPSK	-80 dBm	-70 dBm		
	8DPSK	-80 dBm	-70 dBm		
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	BLE Up to 99 ft (30 m)			
Electrical Interface	USB 2.0 compliant				
Bluetooth® Software Supported	Microsoft Windows	Bluetooth® Soft	ware		
Link Topology	i nerosore vinaovis	Diactoon. Son	vva. c		
Electrical Interface	Point to Point, Mult	ingint Pico Nets	un to 7 slaves		
Bluetooth® Software Supported		-			
Security	rutt Support of Blue	Full support of Bluetooth® Security Provisions			
Power Management	Microsoft Windows	ACDI and IICR D	us Sunnort		
Power Management			•	ting	
Certifications		Self-configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff			
Security	All necessary regulatory approvals for supported countries,				
		including:			
Certifications	FCC (47 CFR) Part 1	5C, Section 15.24	1/ & 15.249		
Bluetooth® Profiles Supported					

Technical Specifications - Networking and Communications

	Power Management	ETS 300 328, ETS 300 826
	Certifications	Low Voltage Directive IEC950
		UL, CSA, and CE Mark
		UL, CSA, and CE Mark
		Serial Port Profile (SPP)1.2
		Service Discovery Application Profile (SDAP)
		Dial-Up Networking (DUN)1,1
	Certifications	Generic Object Exchange Profile (GOEP)1,2
	Bluetooth® Profiles Supported	Object Push Profile (OPP)1,2
	btuetootii 1101ites supporteu	Hard Copy Cable Replacement (HCRP)1,2
		Personal Area Networking Profile (PAN)1.0
		Human Interface Device Profile (HID)1.0
		Hands Free Profile (HFP) 1.5/1.6
		Advanced Audio Distribution Profile (A2DP) 1.3
		Audio Video Remote Control Profile (AVRCP) 1.3/1.4
	Bluetooth® V4.1/V4.2 support	V4.1: ESR5/6/7 compliant
	feature	V4.2: ESR8 compliant, LE Secure Connection – Basic

*Wireless access point and internet access required. 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.

Intel® 7265 802.11ac 2x2 D	ualBand Combo PCIe x1 Card
Wireless LAN Sta	andards 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
	Note:
	The FCC has declared as of January 1, 2015 products that utilize
	passive scanning on channel 12/13 and are capable of
	transmitting must fully comply with requirements of 15.247 or
	otherwise disable those channels.
	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
	Note: Indonesia no support this band)
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		
Fioducation	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 WPA2-F3K, WFA2-F3K, TKIF, dilu AL3.		
	• 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: +16dBm minimum		
output i owei	• 802.11g: +14dBm minimum		
	802.11g : +14dBit millimum 802.11a : +14dBm minimum		
	· · · · · · · · · · · · · · · · · · ·		
	802.11n HT20(5GHz): +12dBm minimum 803.11n HT40(5GHz): +12dBm minimum		
	802.11n HT40(5GHz): +12dBm minimum		
Day and Carray Alland	• 802.11ac 80MHz(5GHz): +11dBm minimum		
Power Consumption	Transmit: 2.0 W (max)		
	Receive: 1.6 W (max) Idle mode (PSP): 180 mW (WLAN Associated)		
	Idle mode: 60 mW (WLAN unassociated)		
	Radio disabled: 30 mW		
Power Management	ACPI and PCI Express compliant power management		
1 one i lanagement	802.11 compliant power saving mode		
Receiver Sensitivity ³	802.11b, 1Mbps : -94dBm maximum		
	802.11b, 11Mbps : -86dBm maximum		
	802.11g, 6Mbps : -88dBm maximum		
	802.11g, 54Mbps : -74dBm maximum		
	802.11a, 6Mbps : -86dBm maximum		
	802.11a, 54Mbps : -72dBm maximum		
	802.11n, MCS07 : -69dBm maximum		
	802.11n, MCS15 : -66dBm maximum		
	802.11ac, 1SS, MCS-0: -86dBm maximum		
	802.11ac, 1SS, MCS-9: -61dBm maximum		
	802.11ac, 2SS, MCS-0 : -83dBm maximum		
	802.11ac, 2SS, MCS-9: -58dBm maximum		
Antenna type	High efficiency antenna with spatial diversity, mounted in the		
	display enclosure Two embedded dual band 2.4/5 GHz antennas are provided to the		
	card to support WLAN MIMO communications and Bluetooth®		
	communications		
Form Factor	PCI-Express M.2 MiniCard		
Dimensions	Type 2230 : 2.3 x 22.0 x 30.0 mm		
Dimensions	Or		
	Type 1630 : 2.3 x 16.0 x 30.0 mm		
Weight	Type 2230 : 2.8g		
	Or		
	Type 1630 : 2g		



	Operating Voltage	3.3v +/- 9%			
	Temperature	Operating	14° to 158° F (–10° to 70° C)		
	remperature	Non-operating 14 to 136 F (-10 to 70 t) Non-operating -40° to 176° F (-40° to 80° C)		·	
	Humidity	Operating	10% to 90% (non-condensing)		
	numurcy	Non-operating	5% to 95% (nor		
	Altitude	Operating	0 to 10,000 ft (3		
		Non-operating	0 to 50,000 ft (•	
	LED Activity	LED Amber – Radio OFF; LED White – Radio ON			
	4. Check latest software/dri	ver release for updates on supported security features.			
	Maximum output power r				
	6. Receiver sensitivity is me			02.11b (CKK modulati	ion) and
I	a packet error rate of 10%				
	HP Integrated Module with Bluetooth® 4.2 Wireless Technology				
	Bluetooth® Specification 4.2 Compliant				
	Frequency Band	2402 to 2480 MHz			
	Number of Available Channels	79 (1 MHz) availabl	e channels		
	Data Rates and Throughput	3 Mbps data rate; t	hroughput up to 2	2.17 Mbps	
		Synchronous Conn	ection Oriented lir	nks up to 3, 64 kbps, vo	oice
		channels			
		Asynchronous Con	nection Less links	2178.1 kbps/177.1 kb	ps
		asymmetric or 130	6.9 kbps symmet	ric	
	Transmit Power	The Bluetooth® co	mponent shall ope	erate as a Class II Blue	tooth®
		device with a maxii	mum transmit pov	ver of +4 dBm for BR a	ınd EDR.
	Receiver Sensitivity	Modulation	0.01% BER	0.001% BER	
		GFSK	-80 dBm	-70 dBm	
		π/4-DQPSK	-80 dBm	-70 dBm	
		8DPSK	-80 dBm	-70 dBm	
	Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW			
		Selective Suspend	17 mw		
	Range	Up to 33 ft (10 m)			
	Electrical Interface	USB 2.0 compliant			
	Bluetooth® Software Supported	Microsoft Windows Bluetooth® Software			
	Link Topology				
	Electrical Interface	Point to Point, Mult	-		
	Bluetooth® Software Supported Security	Full support of Blue	Full support of Bluetooth® Security Provisions		
		Microsoft Windows	ACDL and HCD Du	ic Cupport	
	Power Management Power Management	Microsoft Windows			orating
	Certifications	modes, including S		conservation in all op	eraung
	Security			or supported countries	-
	Security	including:	αιοί γ αμμί υναίς Ιί	or supported countries	ο,
	Certifications	FCC (47 CFR) Part 1	5C Section 15 24	7 & 15 249	
	Bluetooth® Profiles Supported	rec (47 crit) rait i	JC, Jection 13.24	7 & 13.243	
	• • • • • • • • • • • • • • • • • • • •	Power Management ETS 300 328, ETS 300 826 Certifications Low Voltage Directive IEC950			
	Cer ciricacion3				
		UL, CSA, and CE Mark			
	Certifications	Serial Port Profile (SPP) ¹ Service Discovery Application Profile (SDAP)			
	Bluetooth® Profiles Supported	Dial-Up Networking (DUN) ^{1,2}			
			:p) 1,2		
1		Generic Object Exchange Profile (GOEP) ^{1,2}			

Technical Specifications - Networking and Communications

Object Push Profile (OPP) ^{1,2}	
· · · · · · · · · · · · · · · · · · ·	
· · ·	
	Object Push Profile (OPP) ^{1,2} File Transfer Profile (FTP) Synchronization Profile (SYNC) Hard Copy Cable Replacement (HCRP) ^{1,2} Personal Area Networking Profile (PAN) ^{1,2} Human Interface Device Profile (HID) ^{1,2} FAX Profile (FAX) Basic Imaging Profile (BIP) ² Headset Profile (HSP) Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP)

Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac		
Interoperability	Wi-Fi certification	٦	
Frequency Bands	802.11b/g/n	2.402 – 2.482 GHz	
		Note: The FCC has declared as of January 1, 2015 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.	
	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 Note: Indonesia only supports 5.725 - 5.825 GHz (CH149 - CH161)	
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 ~ MCS7, (1SS) (20MHz, 40MHz, and 80MHz) 		
Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM		

Technical Specifications - Networking and Communications

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	1 Check latest software/driver release for updates on supported security features. Ad-hoc (Peer to Peer)	
Models	Infrastructure (Access Point Required)	
Roaming	802.11r Fast Roaming	
Output Power ²	 802.11b: +16dBm minimum 802.11g: +14dBm minimum 802.11a: +14dBm minimum 802.11n HT20(2.4GHz): +14dBm minimum 802.11n HT40(2.4GHz): +12dBm minimum 802.11n HT20(5GHz): +14dBm minimum 802.11n HT40(5GHz): +12dBm minimum 802.11ac 80MHz(5GHz): +11dBm minimum 	
	² Maximum output power may vary by country according to local regulations.	
Power Consumption	Transmit: 2.0 W (max) Receive: 1.6 W (max) Idle mode (PSP): 180 mW (WLAN Associated) Idle mode: 50 mW (WLAN unassociated) Connect Standby: 10 mW (WLAN+BT) Radio disabled: 5 mW	
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode	
Receiver Sensitivity ³	802.11b, 1Mbps: -94dBm maximum 802.11b, 11Mbps: -86dBm maximum 802.11g, 6Mbps: -88dBm maximum 802.11g, 54Mbps: -74dBm maximum 802.11a, 6Mbps: -88dBm maximum 802.11a, 54Mbps: -74dBm maximum 802.11a, 54Mbps: -74dBm maximum 802.11n, MCS07: -69dBm maximum 802.11n, MCS15: -66dBm maximum 802.11ac, 1SS, MCS-0: -86dBm maximum 802.11ac, 2SS, MCS-0: -83dBm maximum 802.11ac, 2SS, MCS-9: -58dBm maximum 802.11ac, 2SS, MCS-9: -58dBm maximum	





Technical Specifications - Networking and Communications

	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).		
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth® communications		
Form Factors	PCI-Express M.2 MiniCard		
Dimensions	Type 2230: 2.3 x 22.0 x 30.0 mm Or Type 1630: 2.3 x 16.0 x 30.0 mm		
Weight	Type 2230 : 2.8g Or Type 1630 : 2g		
Operating Voltage	3.3v +/- 9%		
Temperature	Operating: Non-operating:	14° to 158° F (-10° to 70° C) -40° to 176° F (-40° to 80° C)	
Humidity	Operating: Non-operating:	10% to 90% (non-condensing) 5% to 95% (non-condensing)	
Altitude	Operating: Non-operating:	0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)	
LED Activity	LED Amber – Radio OFF; LED White – Radio ON		

^{*} Wireless access point and Internet service required and not included. Availability of public wireless access points limited.

HP Integrated Module with Bluetooth $^{\circ}$ 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)





Technical Specifications - Networking and Communications

Transmit Power	The Bluetooth® com transmit power of +			ooth® device with a maximum
Receiver Sensitivity	Modulation	0.01% BER	0.001% BER	7
Legacy	GFSK	-80 dBm	-70 dBm	1
	π/4-DQPSK	-80 dBm	-70 dBm	
	8DPSK	-80 dBm	-70 dBm	
Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 1			
Range	Legacy Up to 33 ft (BLE Up to 99 ft (30 r			
Electrical Interface	USB 2.0 compliant			
Bluetooth® Software Supported Link Topology	Microsoft Windows	Bluetooth® Softwa	re	
Electrical Interface Bluetooth® Software Supported Security	Point to Point, Multipoint Pico Nets up to 7 slaves			
	Full support of Blue	Full support of Bluetooth® Security Provisions		
Power Management Certifications	Microsoft Windows ACPI, and USB Bus Support			
	Self-configurable to optimize power conservation in all operating modes, including S Hold, Park, and Sniff		rating modes, including Standby,	
Security	All necessary regula	All necessary regulatory approvals for supported countries, including:		
Certifications Bluetooth® Profiles Supported	FCC (47 CFR) Part 15C, Section 15.247 & 15.249			
Power Management Certifications	ETS 300 328, ETS 30	ETS 300 328, ETS 300 826		
	Low Voltage Directiv	ve IEC950		
Certifications	UL, CSA, and CE Mar	UL, CSA, and CE Mark		
Bluetooth® Profiles Supported	Serial Port Profile (S Service Discovery Ap Dial-Up Networking Generic Object Exch Object Push Profile Hard Copy Cable Rep	oplication Profile (S (DUN) ^{1,2} ange Profile (GOEP (OPP) ^{1,2} olacement (HCRP) ^{1,})1,2 2	
	Personal Area Netw	orking Profile (PAN)1,2	



Technical Specifications - Networking and Communications

	Human Interface Device Profile (HID) ^{1,2} Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP)
	Audio Video Remote Control Profile (AVRCP)
Bluetooth® V4.1/V4.2 support	V4.1: ESR5/6/7 compliant
feature	V4.2: ESR8 compliant, LE Secure Connection – Basic.



Technical Specifications - Audio

AUDIO DM/SFF/TWR

High Definition Audio			
Туре	Integrated		
HD Stereo Codec	Conexant CX20632		
Audio I/O Ports	Headset connector supports a CTIA style headset and is re-taskable as a Line-in, Line-out, Microphone-in or Headphone-out port		
	All ports are 3.5mm and support stereo (see above tables for system configurations)		
Internal Speaker Amplifier	2W class D mono amplifier for the internal speaker only. External speakers must be powered externally.		
Multi-streaming Capable	Playback multi-streaming can be enabled in the audio control panel to allow independent audio streams to be sent to/from the front and rear jacks or integrated speaker.		
Sampling	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 Mono Speaker	Yes		

AUDIO All-in-One

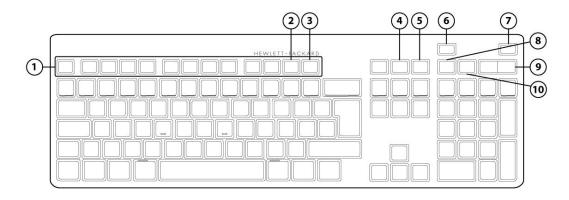
High Definition Audio AIO			
Туре	Integrated		
HD Stereo Codec	Conexant 2-channel CX5001 codec		
Audio I/O Ports	Side Headset connector supports a CTIA style headset and is re-taskable as a Line-in, Line-out, Microphone-in or Headphone-out port		
	Side Headphone port		
	Rear Line-Out		
All ports are 3.5mm and support stereo (see above tables for system configura			
Internal Speaker Amplifier	2.2W per channel Class D amplifier for the internal speaker only. External speakers must be powered externally.		
Multi-streaming Capable	Multi-streaming can be enabled in the audio control panel		
Sampling	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 Stereo Speakers	Yes		





Input/Output Devices

HP Conferencing Keyboard



1.	Function Keys		6.	End/Decline a Call
2.	F11 Lync or Skype for Business Contact list *		7.	Answer a Call
3.	F12 Lync or Skype for Business Calendar **		8.	Microphone Mute
4.	Share Screen		9.	Volume Up/Down
5.	Stop Webcam		10.	Audio Mute
*M	licrosoft Lync 2013, or Skype f	or Business, or Microsoft Outlook 2013	Conta	nct list
**M	licrosoft Lync 2013, or Skype f	or Business, or Microsoft Outlook 2013	Calen	dar
Dimensions (H x L x W)		0.85 x 17.34 x 6.10 in (2.16 x 44.05 x 15.50 cm)		
Weight		24.69 oz. (700 g)		
Connectivity USB cable		USB cable		
Key	/S	110 (US) Layout, 111 (EU) Layout – d	epenc	ling upon country
Feature Summary		Full-size ultra-quiet keyboard with numerical pad and 12 function keys One-touch simplicity for Microsoft Lync or Skype for Business calls with dedicated keys and LED light indicators		
Call in progress –Green Microphone Mute – Orange Audio Mute – Orange		Microphone Mute – Orange		



	Stop Webcam – Orange		
Other Call control keys	End/Decline Call Volume up and down rocker key		
Microsoft Lync/Outlook	Fn+F12 – Lync or Skype for Business Calendar will open. If Lync or Skype for Business is not available will bring Outlook Calendar * Fn+F11 – Lync or Skype for Business Contact will open. If Lync or Skype for Business is not available will bring Outlook Contact list * * Fn+11 and Fn+12 function keys are not supported in Microsoft Windows 8.x Metro mode		
Functions Keys	Fn+F10 – System Settings Fn+F9 – Devices Fn+F8 – Search Fn+F7 – Blank Fn+F6 – Up Brightness Adjustment Fn+F5 – Down Brightness Adjustment Fn+F4 – Display Options Fn+F3 – File Explorer Fn+F2 – System Lock Fn+F1 – System Sleep		
System requirements	Available USB port Windows 7, Windows 8.x, and Windows 10 Server: Microsoft Lync Server 2010 or 2013 and Skype for Business Server 2015 Client: Microsoft Lync 2013 version 15.0.46xx or newer or Skype for Business Notes: • Limited support for Microsoft Lync 2010, Microsoft Lync 2013 Basic and Microsoft Metro Mode • Screen brightness functions supported in select HP systems		
Approvals EMC Product Safety	FCC; CE; ACA(C-tick); EAC UL, CE Mark		

HP USB PS/2 Washable Keyboard			
Physical Characteristics	Keys	104 (US) Layout, 105 (EU) layout - depending upon country	
	Dimensions (L x W x H)	17.67x 6.62 x 1.38 in (449 x 168 x 35 mm)	
	Weight	1.7 lb (0.77 kg) minimum	
	Operating voltage	+ 5VDC ±5%	
Electrical	Power consumption	50-mA maximum (with three LEDs ON)	
Electricat	System interface	USB Type A plug connector	
	ESD	CE level 4, 15-kV air discharge	





	EMI - RFI	Conforms to FCC rules for a Class B computing device	
	Microsoft® PC 99 - 2001	Functionally compliant	
	Keycaps	Stepped -profile design	
	Switch actuation	55-g nominal peak force with tactile feedback	
	Switch life	20 million keystrokes	
Mechanical	Switch type	Contamination-resistant switch membrane	
riechanicat	Key-leveling mechanisms	For all double-wide and greater-length keys	
	Cable length	7 ft (2.2 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	4° to 149° F (-20° to 65° C)	
	Operating humidity	10% to 95% (non-condensing at ambient)	
	Non-operating humidity	0% to 95% (non-condensing at ambient)	
Environmental	Operating shock	40 g, six surfaces	
Elivirolililelitat	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)	42 in (107 cm) on concrete, 16-drop sequence	
Approvals	UL, cUL, FCC, CE, TUV GS, VCCI, B	SMI, C-Tick, KCC, USB-IF, WHQL, EN/IEC 60601-1, IP66/NEMA4X	
Ergonomic compliance	ANSI HFS 100, ISO 9241-4, and TUVGS		

HP USB Business Slim Smartcard Keyboard		
	Keys	104, 105, 109 layout (depending upon country
Physical Characteristics	Dimensions (W x D x H)	5.68 x 0.78 x 17.34 in (14.45 x 1.98 x 440.6 cm)
	Weight	1.32 lb (0.6± 0.1 kg)
Electrical	Operating voltage	5V
	Power consumption	200 mA
	System interface	USB Interface
	ESD	Air 12.5kV / Contact 8kV
	EMI - RFI	under 3dB
	Microsoft PC 99 - 2001	Conforms to FCC rules for a Class B computing device
Mechanical	Keycaps	Low-profile design
	Switch actuation	60±15g nominal peak force with tactile feedback
	Switch life	10 million keystrokes (Life tester)



	Switch type	Contamination-resista	nt switch membrane
	Key-leveling mechanisms	For all double-wide an	d greater-length keys
	Cable length	6 ft (1.8 m)	
	Acoustics	43-dBA maximum soui	nd 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)	
	Non-operating humidity	20% to 80% (non-condensing at ambient)	
	Operating shock	40 g, six surfaces	
Environmental	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	
	Support	All ISO 7816 smart card	ds
	Interface	Reads from and writes to all ISO7816-1, 2, 3, 4 memory and microprocessor smart cards (T=0, T=1)	
	Chipset	IDENTIVE CLOUD 2190	
	Standard APIs supported	PC/SC, EMV2000, CT-API	
	Power	USB Port	
		Short circuit detection	(protects smart card and reader)
		Power supply compliar mA)	nt with ISO7816 and EMV (5V, 60
SmartCard Function		Supports 3-V and 5-V	cards
	Power consumption	100-mA maximum draw	
	Communication	From card	9600 bps to 330,000 bps
		From computer	12 Mbps (USB transfer speed)
	Landing mechanism	Contact device	Friction contact
		Card insertions rating	Up to 100,000 insertion cycles
	Interface modes	CCID protocol	
	Reader performance interface	USB connection	
	Electro-magnetic standards	Europe	2004/108/EC
	_	USA	USAFCC part 15
Approvals	CE Marking; TUV; EAC; FCC; cULus/CSAus; ICES; RCM; VCCI; KCC; BSMI		
Ergonomic Compliance	ISO 9241-410, TUV GS		
Kit Contents	Keyboard, I/O Security and Documentation CD, warranty card		

HP USB Business Slim Keyboard		
	Keys	104, 105, 106, 107, 109 layout (depending upon country)
Physical characteristics	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)





	1	
	Weight	1.32 lb (0.6± 0.08 kg)
	Operating voltage	+ 4.4 – 5.25VDC
	Power consumption	50-mA maximum (with 5 VDC power supplied and three LEDs ON)
	System interface	USB Type A plug connector
Electrical	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
	Microsoft® PC 99 - 2001	Functionally compliant
	Keycaps	Low-profile design
	Switch actuation	60±12.5g nominal peak force with tactile feedback
	Switch life	10 million keystrokes (Life tester)
Mechanical	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, 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 PS/2 Business Slim Keyboard		
	Keys	104, 105, 106, 107, 109 layout (depending upon country)
Physical Characteristics	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 (600± 80 g)
	Operating voltage	+ 4.4 – 5.25VDC
	Power consumption	50-mA maximum (with 5 VDC power supplied and three LEDs ON)
	System interface	PS/2 6-pin mini din connector
	ESD	Contact Discharge: 2, 4,6,8KV Air Discharge: 2, 4, 8,10,12.5KV
Electrical	EMI - RFI	Conforms to FCC rules for a Class B computing device
Lecti itui	Microsoft PC 99 - 2001	Functionally compliant
	Keycaps	Low-profile design
	Switch actuation	60±12.5g 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	-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	N/A
Environmental	Non-operating shock	65 inch 2.9 ms, six surface; 30g 266 inch/second; 50g 266 inch/second six surface
	Operating vibration	2-g peak acceleration
	Non-operating vibration	Starting at 5 Hz, vary the frequency of vibration from 5 to 500 Hz and back to 5 Hz at a Logarithmic sweep rate of 1 octave per minute.
	Drop (out of box)	26 in (66 cm) on carpet, six-drop sequence
	Drop (in box)	29.93 in (76 cm) on concrete, 16-drop sequence
Approvals	UL, FCC, CE Mark, TUV, TUV GS, VCCI, BSMI, C-Tick, KC	
Ergonomic compliance	ANSI HFS 100, ISO 9241-4, and TUVGS	

HP USB (Grey) Busi	ness Slim Keyboard	1
Physical characteristics	Keys	104, 105, 106, 107, 109 layout (depending upon country)
	Dimensions (L x W x H)	17.19 x 5.41 x 0.82 in (43.68±1.5 x 13.76±1.0 x 2.1 ±1.0 cm)
	Weight	1.32 lb (0.6± 0.08 kg)
Electrical	Operating voltage	+ 4.4 – 5.25VDC
	Power consumption	100-mA maximum (with 5 VDC power supplied and three LEDs ON)
	System interface	USB Type A plug connector
	ESD	Contact Discharge: 4, 6, 8 KV
	EMI – RFI	Air Discharge: 8, 10, 12 KV / 15 KV
	Microsoft PC 99 – 2001	Conforms to FCC rules for a Class B computing device; Functionally compliant
Mechanical	Keycaps	Low-profile design
	Switch actuation	Rubber dome + membrane





	Switch life	10 million
	Switch type	Rubber dome
	Key-leveling mechanisms	Link bar
	Cable length	For all double-wide and greater-length keys
	Microsoft PC 99 – 2001	Yes
Environmental	Acoustics	55-dBA maximum sound pressure level
	Operating temperature	10°C to 50°
	Non-operating temperature	-30°C to 90°
	Operating humidity	10% to 90% (non-condensing at ambient)
	Non-operating humidity	60% 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	FCC; CE; VCCI; BSMI; KC; EAC; RCM; TUV-GS; UL; RoHS; WEEE	
Ergonomic compliance	ANSI HFS 100; ISO 9241-4; and TUVGS	

HP Wireless Business Slim Keyboard and Mouse			
Keyboard	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)	
Reyboard	Weight – Without Two AA Alkaline Batteries	1.23 lb (560± 80 g)	
	Dimensions (H x L x W)	1.46 x 4.53 x 2.47 in (37 x 115 x 62.9 mm)	
Mouse	Weight – Without Two AA Alkaline Batteries	0.15 lb (67 g)	
	Dimensions (H x L x W)	0.33x 1.79 x 0.72 in (8.4 x 45.5 x 18.4 mm)	
Receiver	Weight	0.21 oz (5.9 g)	
Ketelvei	Cable Length – Minimum	6 ft (1.8 m)	
	Range	32.8 ft (10 m)	
	Available USB port for the receiver CD-ROM Drive		
*This system may require upgraded and/or separately purchased hardward drive to install the Windows 7 software and take full advantage of Windows See http://www.microsoft.com/windows/windows-7/ for details.		ware and take full advantage of Windows 7 functionality.	
Approvals	Product Safety	UL; CSA /TUV (Europe only); CE Mark; CB Report	
Approvals	Ergonomics	ANSI; ISO (Europe only); GS Mark (Germany only)	





	EMC	FCC; CE; ACA (-tick); BSMI; KC ; VCCI
	CE Mark	EN 55022:2010; EN 55024; EN 301489-1; EN 61000
	Design Guidelines for PCs	PC 99 – connector overmold colors; PC 2001 – full functionality
	Telecom	All local telecom requirements and approvals for intended markets
	USA	FCC Title 47 CFR, Par 15, Subpart C; other local requirements
	Country Support	US, Belgium, Switzerland, Spain, Denmark, Netherlands, France, Germany, Italy, Portugal, Sweden, Norway, Finland, UK, Poland, Czech Republic, Turkey, Greece, Austria, Bulgaria, Cyprus, Estonia, Hungary, Ireland, Latvia, Lithuania, Luxemburg, Malta, Romania, Slovakia, Slovenia, Vietnam, HK, Australia, NZ, Malaysia, Singapore, Indonesia, Philippines, Thailand, Canada, China, Japan, Korea, Taiwan, India, Venezuela, Ecuador, Russia, Ukraine, Israel, Croatia, United Arab Emirates, Peru, Brazil, Chile, Argentina, Mexico, South Africa, and up to 193 countries worldwide.
Environmental	Keyboard contains 25% post-consumer recycled plastic material.	

HP PS/2 Mouse				
Dimensions (H x L x W)	1.46 x 2.48 x 4.53 in (3.70 x 6.29 x 11.50 cm)			
Weight	3.53 oz (100g; +10g/- 5 g)			
	Operating temperature	-32° to 104°F (0° to 40° C)		
	Non-operating temperature	-4° to 140°F (-20° to 60° C)		
	Operating humidity	10% to 90% (non condensing at ambient)		
	Non-operating humidity	10% to 90% (non condensing at ambient)		
Environmental	Operating shock	40 g, 6 surfaces		
	Non-operating shock	80 g, 6 surfaces		
	Operating vibration	2 g peak acceleration		
	Non-operating vibration	4 g peak acceleration		
	Drop (out of box)	80 cm height onto asphalt tile over concrete or equivalent, 5-drop in 5 direction except the cable face		
	Operating voltage	5 VDC ± 10%		
Electrical	Power consumption	100mA		
	System consumption	PS/2 mini-din connector		





	ESD	CE level 4, 15 kV air discharge			
	EMI-RFI	Conforms to FCC rules for a Class B computing device			
	Microsoft PC99 - 2001	Functionally compliant			
	Resolution	800 DPI			
	Tracking speed	10 in/s (25.4 cm/s) maximum			
	Acceleration	±15%			
	Switch actuation	65±20 gf			
Mechanical	Switch life	3,000,000 operations (using Hasco modified tester)			
	Switch type	Low force micro-switches			
	Tracking mechanism life	80 km			
	Cable length	6 ft (1.8 m)			
	Microsoft PC99 - 2001	Mechanically compliant			
	Width	6 mm			
	Diameter	22.5 ± 0.2 mm			
6	Maximum rotation force	50 gf-cm			
Scroll wheel	Switch type	Light force micro-switch			
	Switch life	1 million operations			
	Mechanical life	Minimum 200,000 revolutions			
Regulatory Approvals	UL/cUL, FCC, CE Mark, TUV/GS,	UL/cUL, FCC, CE Mark, TUV/GS, VCCI, KCC, BSMI, C-Tick			
HP USB 1000dpi L	aser Mouse				
Dimensions (H x L x W)	1.47 x 4.53 x 2.47 in (37.3 x 11	1.47 x 4.53 x 2.47 in (37.3 x 114.97 x 62.86 mm)			
Weight	3.360 oz (102g)	3.360 oz (102g)			
Cable length	70.9 in (180 cm)				
System requirements	Available USB port				
Environmental	Operating Temperature	32° to 104° F (0° to 40° C)			
	Non-operating Temperature	-4° to 140° F (-20° to 60° C)			
	Operating Humidity	10% to 90% (non-condensing at ambient)			
Mechanical	Resolution	1000dpi			
	Tracking Speed	45 cm/sec			
	Cable Length	70.9 in (180 cm)			
HP USB PS/2 Wash	able Mouse				
Dimensions (H x L x W) 1.56 x 2.44 x 4.61 in (3.95 x 6.21 x 11.7 cm)					
Jeight 4.44 oz (126 g)					
Environmental	Operating temperature -32° to 1	04°F (0° to 40° C)			



Technical Specifications – Input/Output Devices

	Non-operating temperature	-4° to 140°F (-20° to 60° C)
	Operating humidity	10% to 90% (non-condensing at ambient)
	Non-operating humidity	10% to 90% (non condensing at ambient)
	Operating shock	40 g, 6 surfaces
	Non-operating shock	80 g, 6 surfaces
	Operating vibration	2 g peak acceleration
	Non-operating vibration	4 g peak acceleration
	Drop (out of box)	80 cm height onto asphalt tile over concrete or equivalent, 5-drop in 5 direction except the cable face
Electrical	Operating voltage	5 VDC ± 10%
	Power consumption	100mA
	System consumption	PS/2 mini-din connector
	ESD	CE level 4, 15 kV air discharge
	EMI-RFI	Conforms to FCC rules for a Class B computing device
	Microsoft® PC99 – 2001	Functionally compliant
Mechanical	Resolution	400 ± 20% DPI
	Tracking speed	10 in/s (25.4 cm/s) maximum
	Acceleration	100 in/s/s (2.54 m/s/s)
	Switch actuation	61 g nominal peak force
	Switch life	3,000,000 operations (using Hasco modified tester)
	Switch type	Low force micro-switches
	Tracking mechanism life	155 mi (250 km) at average speed of 10 in/s
	Cable length	6 ft (1.8 m)
	Microsoft PC99 – 2001	Mechanically compliant
Scroll wheel	Width	8 mm
	Diameter	1.01 in (25.6 mm)
	Maximum rotation speed	48 rats/sec
	Switch type	Light force micro-switch
	Switch life	1 million operations
	Mechanical life	Minimum 200,000 revolutions
Regulatory approvals	Compliant	UL, CSA, FCC, CE Mark, TUV, TUV GS, VCCI, BSMI, C-Tick, MIC

HP USB Hardened Mouse



Mouse Type	Wired optical mouse	Wired optical mouse				
Interface	USB 2.0	USB 2.0				
Dimensions (H x L x W)	114.97 x 62.92 x 37.3 mm (+/-0.3 mm) (11.49 x 6.29 x 1.46 in)					
Weight	92 g (+/-10 g) (3.2 oz)					
Cable length	1.8 M					
Tracking	X-Y Positioning	X-Y Wheel Resolution	1000 DPI			
		Tracking Speed	Up to 30 in/sec in either X or Y direction			
	Z Axis Wheel	Z Wheel Revolution	24 counts per revolution			
		Tracking Speed	0 ~ 120 rpm			
Environmental	Operating temperature	0° - 40°C				
	Non-operating temperature	-40° - 65°C				
	Operating humidity	90%				
	Agency Approvals	CE FCC RCM VCCI EMC EAC BSMI UL ICES-003 Class B KCC TUV/GS				
Electrical	Input Voltage & Current		DC / 100 mA			
	Power Consumption	Under nominal 5 VDC power supplied, max current consumption is 100mA with tracking speed up to 30 in/sec				
Color	Black	Black				
System requirements	Windows 10, Windows 8.	1 32/64bit, W	indows 7 32/64bit			

HP Grey V2 Mouse				
Dimensions (H x L x W)	1.46 x 4.53 x 2.48 in (3.72 x 11	1.46 x 4.53 x 2.48 in (3.72 x 11.5 x 6.29 cm) ±1 mm		
Weight	3.53 oz (100g; +10g/- 5 g)	3.53 oz (100g; +10g/- 5 g)		
	Operating temperature	50° to 122°F (10° to 50° C)		
	Non-operating temperature	-22° to 140°F (-30° to 60° C)		
Environmental	Operating humidity	10% to 90% (non condensing at ambient)		
	Non-operating humidity	20% to 80% (non condensing at ambient)		





	Operating shock	40 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	4.75~5.25 Vdc			
Electricat	Power consumption (typical)	10mA			
	Connector	USB 2.0			
	Туре	3D mouse (3 keys and wheel)			
	Resolution	800 DPI			
Mechanical	Sensor	PixArt vendor Optical USB mouse sensor. DIP			
	Tracking speed	30 inch/sec (max)			
	Tracking acceleration	8G(max), 1G=9.8m/s2			
	Cable length	6 ft (1.8 m)			
Color	Grey				
Regulatory Approvals	FCC, CE, ICES, C-TICK, VCCI, KCC, BSMI, ISO9241, Part 4, Computer Work Station Ergonomics compliance, IEC 801-2, IEC 1000-4-2, EN 55024:1998 + A1:2001 + A2:2003, European Standard EN 55022: 2006 Class B, CE Mark				

HP USB Mouse				
Dimensions (H x L x W)	2.5 x 4.5 x 1.5 in (63.5	2.5 x 4.5 x 1.5 in (63.5 x 114.3 x 38.1 mm)		
Weight	0.22 lb (99.79 g)	0.22 lb (99.79 g)		
Color	Black	Black		
Connector	USB	USB		
Mechanical	Resolution	Resolution 800 DPI sensitivity		
	Buttons	Buttons Two primary buttons and clickable scroll wheel		

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.
- 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
- BIOS recovery files are maintained on the local OS drive when updating with HP BIOS Update and Recovery utility (HPBIOSUPDREC)
- 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
- Green Pull Tabs (SFF), 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)
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	Detects errors in Read/Write buffers on HDD cache RAM
drives	Interface in F10 setup provides confirmation of SMART IV support.





After-Market Options (availability may vary by region)

After Market Options

Business Monitors (sample list)*	SFF/MT	<u>DM</u>	<u>AiO</u>	Part Number
HP EliteDisplay E272q 27-inch QHD Monitor	Х	Х		M1P04AA
HP EliteDisplay E242 24-inch Monitor	Х	Х		M1P02AA
HP EliteDisplay E232 23-inch Monitor	Х	Х		M1N98AA
*Additional models are available.				
Communication Devices	SFF/MT	<u>DM</u>	<u>AiO</u>	Part Number
Intel® Ethernet I210 - T1 Gbe NIC	Х			E0X95AA
Intel® 7265 802.11ac 2x2 DualBand Combo PCIe x1 Card	Х			N4G85AA
Graphics Solutions	SFF/MT	<u>DM</u>	AiO	Part Number
NVIDIA® GeForce® GT 730 2GB DP PCIe x8 Card	Χ			Z9H51AA
AMD® Radeon™ R7 450 4GB PCIe x16 Card	MT Only			Z9H52AA
HP UHD USB Graphics Adapter	Χ	Х	Х	N2U81AA
HP DisplayPort™ 1.2 Cable Kit	Χ	Х	Х	VN567AA
HP DisplayPort™ 1.2 To DVI-D Adapter	Χ	Χ	Х	FH973AA
HP DisplayPort™ 1.2 To VGA Adapter	Χ	Х	Х	AS615AA
HP DisplayPort™ 1.2 To HDMI 4k Adapter	Χ	Х	Х	K2K92AA
HP DVI to DVI Cable	Χ	Х	Х	DC198A
HP (Bulk) 700mm DisplayPort™ 1.2 Cable Kit		Χ		V8Y77A6
HP USB-C to VGA Adapter (when Type-C Port is installed)	Χ	Х		N9K76AA
HP USB-C to HDMI Adapter (when Type-C Port is installed)	Χ	Х		N9K77AA
HP USB-C to DisplayPort™ 1.2 Adapter (when Type-C Port is installed)	Х	Х		N9K78AA
Data Storage Drives	SFF/MT	<u>DM</u>	AiO	Part Number
HP 500GB 7200PRM SATA 6.0Gb/s 3.5" Hard Drive	Х			QK554AA
HP 1TB 7200rpm SATA 6Gb/s 3.5" Hard Drive	Х			QK555AA
HP 256GB SATA TLC Solid State Drive	Х	Х	Х	P1N68AA
HP 512GB Turbo Drive G2 TLC M.2 SSD Drive	Х	Х	Х	X8U75AA
HP 9.5mm Slim Removable SATA 500GB	Х		Х	T7G14AA
HP 256GB SATA Non-SED Solid State Drive	Х	Х	Х	W0U55AA
HP 9.5mm G3 800/600 Tower DVD Writer	MT Only			1CA52AA
HP 9.5mm G3 8/4 SFF G4 400 SFF/MT DVD Writer	SFF Only			1CA53AA
HP 9.5mm AIO 800 G3 Slim DVD Writer			AiO Only	Z9H62AA
				<u> </u>
Input Devices	SFF/MT	<u>DM</u>	<u>AiO</u>	Part Number
HP Conferencing Keyboard	Χ	Х	Х	K8P74AA



After-Market Options (availability may vary by region)

	1 1		11	1
HP USB Business Slim Keyboard	X	Х	Х	N3R87AA
HP PS/2 Business Slim Keyboard	Х			N3R86AA
HP Wireless Business Slim Keyboard and Mouse**	Х	Х	Х	QY449AA
HP USB Business Slim Grey Keyboard (EMEA only)	X	Х	Х	Z9H49AA
HP USB Business Slim Smart Card CCID Keyboard	Х	Х	Х	Z9H48AA
HP USB PS/2 Washable Keyboard and Mouse Kit**	Х	Х	Х	BU207AA
HP USB Grey V2 Mouse (EMEA only)	Х	X	Х	Z9H74AA
HP USB Business Slim Keyboard and Mouse (China Only)	Х	Х	Х	Z9H50AA
HP USB Hardened Mouse	Х	Х	Х	P1N77AA
HP PS/2 Mouse	Х			QY775AA
HP USB Mouse	Х	Х	Х	QY777AA
HP USB 1000dpi Laser Mouse	Х	Х	Х	QY778AA
** Keyboard contains 25% post-consumer recycled plastic material				
Desktop Mini Accessories	SFF/MT	<u>DM</u>	AiO	Part Number
HP Desktop Mini DVD Super Multi-Writer ODD Expansion Module		Х		K9Q83AA
HP Desktop Mini 500GB HDD/ I/O Expansion Module		Х		K9Q82AA
HP Desktop Mini Rack Mount Tray Kit		Х		G1K21AA
HP Desktop Mini Security/Dual VESA Sleeve		Х		G1K22AA
HP Desktop Mini 65W Power Supply Kit		Х		L2X04AA
HP Desktop Mini 90W Power Supply Kit		Х		L4R65AA
HP Desktop Mini Vertical Chassis Stand		Х		G1K23AA
HP Desktop Mini Port Cover Kit		Х		1ZE52AA
HP Desktop Mini I/O Expansion Module		Х		K9Q84AA
HP Integrated Work Center Desktop Mini/Thin Clients		Х		G1V61AA
HP Single Monitor Arm		Х	Х	BT861AA
HP Quick Release Kit		Х	Х	EM870AA
HP PC Mounting Bracket for Monitors		Х		N6N00AT
System Memory	SFF/MT	<u>DM</u>	<u>AiO</u>	Part Number
HP 4GB DDR4-2400 DIMM	Х			Z9H59AA
HP 8GB DDR4-2400 DIMM	Х			Z9H60AA
HP 16GB DDR4-2400 DIMM	Х			Z9H57AA
HP 4GB DDR4-2400 SODIMM		Х	Х	Z9H55AA
HP 8GB DDR4-2400 SODIMM		Х	Х	Z9H56AA
HP 16GB DDR4-2400 SODIMM		Х	Х	Z9H53AA
Multimedia Devices	SFF/MT	DM	AiO	Part Number
HP Business Headset v2	X	X	<u> </u>	T4E61AA
HP USB Business Speakers v2	X	X	^	N3R89AA
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After-Market Options (availability may vary by region)

Security Devices	SFF/MT	<u>DM</u>	<u>AiO</u>	Part Number
HP 800 G3 SFF Solenoid Lock and Hood Sensor	SFF only			1CA50AA
HP 800 G3 TWR Solenoid Lock and Hood Sensor	Tower only			J6L42AA
HP Business PC Security Lock v2 Kit	X			N3R93AA
HP Keyed Cable Lock 10mm Kit	X	Χ	Х	T1A62AA
HP Dual Head Keyed Cable Lock Kit	X	Χ	Х	T1A64AA
Stands and Accessories	SFF/MT	<u>DM</u>	<u>AiO</u>	Part Number
HP (10 Set) 600/800 G3 Tower Bezel Support Kit	Tower only			Z9H63A6
HP (10) 400 G4 600/800 G3 SFF G4 MT Bezel Support Kit	SFF only			Z9H64A6
HP Single Monitor Arm	X	Χ	Х	BT861AA
HP EliteOne G3 800 AIO Recline Stand			Х	Z9H67AA
HP EliteOne G3 800 AIO Adjustable Height Stand			Х	Z9H66AA
LANDESK Software (e-delivery)	SFF/MT	<u>DM</u>	<u>AiO</u>	Part Number
Contact your HP representative for available options.				N/A



After-Market Options (availability may vary by region)

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Change Log

Date	Version History	Action	Description of Change	
January 25, 2017	From v1 to v2	Launch	QS launched	
February 13, 2017	From v2 to v3	Update	Controller Clock Speed Updated from Graphics Section	
February 20, 2017	From v3 to v4	Added	Added All-in-One models	
February 28, 2017	From v4 to v5	Update	Bays section updated (disclaimer added)	
March 2, 2017	From v5 to v6	Update	Accessories Updated (accessory added), Environmental Sec updated	
March 8, 2017	From v6 to v7	Added	Added Environmental Data for AiO models	
March 9, 2017	From v7 to v8	Update	Weight and Dimensions updated, After market section updated (added accessory)	
March 10, 2017	From v8 to v9	Update	Standard features and configurable components section updated	
March 14, 2017	From v9 to v10	Update	Accessories updated	
March 16, 2017	From v10 to v11	Update	Display specs updated	
March 22, 2017	From v11 to v12	Update	Environmental Section Updated	
April 5, 2017	From v12 to v13	Update	Graphics section updated	
April 7, 2017	From v13 to v14	Update	OS section updated (note added)	
April 17, 2017	From v14 to v15	Update	Ports section updated	
April 27, 2017	From v15 to v16	Update	Graphics section updated	
May 10, 2017	From v16 to v17	Update	DESKTOP MINI ACCESSORIES (optional) section updated	
June 1, 2017	From v17 to v18	Update	Title updated	
July 6, 2017	From v18 to v19	Update	SFF and TWR factors: Ports USB 2.0 & USB 3.1 Gen1 information updated	
July 13, 2017	From v19 to v20	Update	Desktop Mini Accessories AMO section: P3R65AA deleted; 1ZE52AA added; I/O Ports — Internal ports section: Internal SATA storage connector(s) SFF changed from 4 to 3;	
July 20, 2017	From v20 to v21	Update	Audio All-in-One section updated	
July 21, 2017	From v21 to v22	Update	Environmental disclaimer updated	
July 25, 2017	From v22 to v23	Update	"256GB Turbo Drive G2 TLC OPAL 2.0 SED Solid State Drive" section removal updated	
August 9, 2017	From v23 to v24	Update	Dimensions & weight section updated	
August 25, 2017	From v24 to v25	Update	Dimensions & weight section updated	
September 5, 2017	From v25 to v26	Update	Environmental for 800 G3 SFF and 800 G3 TWR added individually	
October 5, 2017	From v26 to v27	Update	DisplayPort ™ version updated in the whole document	
October 10, 2017	From v27 to v28	Update	Footnotes on "Software components and applications with windows" section fixed	
October 16, 2017	From v28 to v29	Update	"Multi-unit packaging" and "Shipping weight" added to Weights and dimensions table	
October 17, 2017	From v29 to v30	Update	GTX 1070 and GTX 1060 graphic cards added	
October 18, 2017	From v30 to v31	Update	Environmental Data table for 400 G3 Non-touch AiO Business PC added (5 Gbit/s data speed) added to each USB 3.1 Gen1 Port in all call outs	
October 31, 2017	From v31 to v32	Update	Power Supply section updated	
December 4, 2017	From v32 to v33	Update	I/O Ports section updated	
January 3, 2018	From v33 to v34	Update	Power factor information table added to Power supply section	



HP EliteDesk 800 G3 and HP EliteOne 800 G3 Business Desktops PCs

QuickSpecs

Change Log

January 24, 2018	From v34 to v35	Update	HP Desktop Mini Lock Box removed from the Accessories section
February 27, 2018	From v35 to v36	Update	Updated image for SFF
March 8, 2018	From v36 to v37	Update	Footnote added to Ports-Standard section

