HP EliteDesk 800 G8 Desktop Mini PC

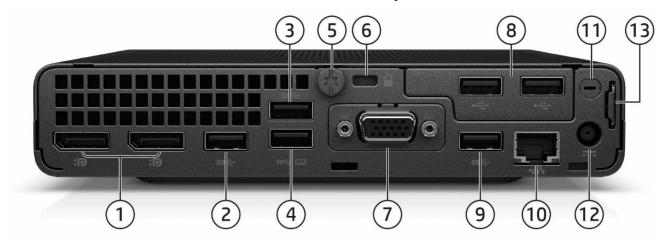


- 1. Type-C® SuperSpeed USB 20Gbps signaling rate port (charge support up to 5V/3A)
- 2. Type-A SuperSpeed USB 10Gbps signaling rate port
- 3. Type-A SuperSpeed USB 5Gbps signaling rate port (charge support up to 5V/1.5A)
- 4. Combo Audio Jack with CTIA and OMTP headset support
- 5. Dual-state power button
- 6. Hard drive activity light



Overview

HP EliteDesk 800 G8 Desktop Mini PC



- (2) Dual-Mode DisplayPort™ 1.4 (DP++)
- 2. Type-A SuperSpeed USB 5Gbps signaling rate port
- Type-A SuperSpeed USB 5Gbps signaling rate port (Supporting wake from S4/S5 with keyboard/mouse connected and enabled in BIOS)
- Type-A SuperSpeed USB 10Gbps signaling rate port (Supporting wake from S4/S5 with keyboard/mouse connected and enabled in BIOS)
- 5. Cover release thumbscrew
- 6. Standard cable lock slot (10 mm)
- 7. (1) Flex Port 1, choice of:
 - HDMI 2.0b
- Fiber NIC (100Mbps and 1Gbps)1
- VGA
- Serial²
- DisplayPort[™] 1.4
 Thunderbolt 3¹
- Type-C[™] SuperSpeed USB 10Gbps signaling rate port w/ DisplayPort[™] Alt Mode and 100W Power Intake
- Intel® I225-LM 2.5 Gigabit Network Connection LOM (non-vPro)
- Dual Type A SuperSpeed USB 5Gbps signaling rate port

- 8. (1) Flex Port 2, choice of:
 - VR Ready NVIDIA GTX 1660 Ti discrete GPU
 - Dual Type-A Hi-Speed USB 480Mbps signaling rate port
 - Serial
 - Second external antenna
- 9. Type-A SuperSpeed USB 10Gbps signaling rate port
- 10. RJ45 network connector
- 11. External WLAN antenna opening
- 12. Power connector
- 13. Retractable Padlock loop

Not Shown

Slots

- (1) Internal M.2 2230 connector for WLAN
- (2) Internal M.2 SSD storage 2280 connector

Bays

(1) 2.5- inch SATA drive Bay (not available on discrete graphics sku)

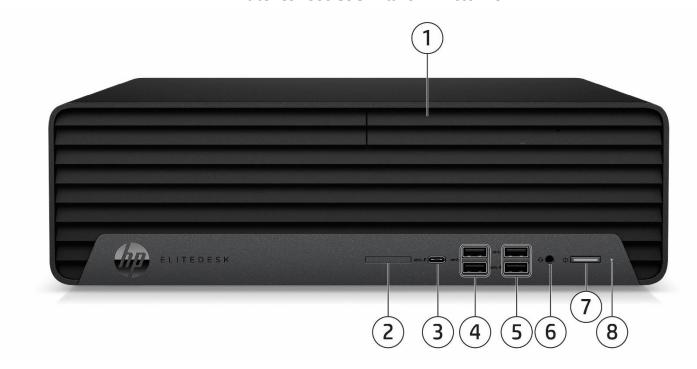
Mounting

Support for

- VESA Sleeve StandaloneQuick Release Bracket
- B300/B500 Mounting bracket
- Integrated Work Center Stand
- 1. Fiber NIC (100Mbps and 1Gbps) cards would not be available in some selected Europe countries and Korea.
- 2. Sold separately or as an optional feature.



HP EliteDesk 800 G8 Small Form Factor PC



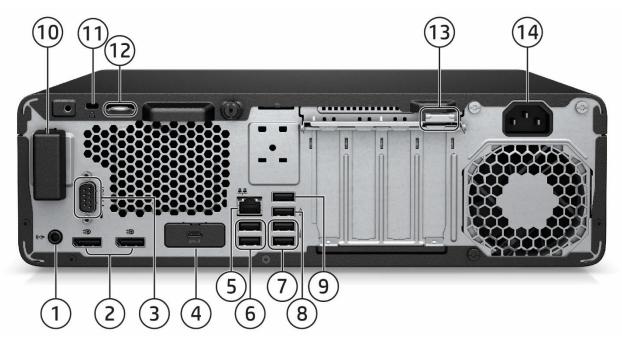
- 1. Slim optical drive (optional)
- 2. SD 4 Card Reader (optional)
- 3. Type-C[®] SuperSpeed USB 20Gbps signaling rate port (charge support up to 5V/3A)
- 4. (2) Type A SuperSpeed USB 10Gbps signaling rate port
- 5. (2) Type A SuperSpeed USB 5Gbps signaling rate port (1 with charge support up to 5V/1.5A)
- 6. Combo Audio Jack with CTIA and OMTP headset support
- 7. Dual-state power button
- 8. Hard drive activity light

Not Shown

- (2) PCI Express x16 graphics connectors (one wired as x4)
- (2) PCI Express x1
- (3) M.2 (1 as M.2 2230 socket for WLAN/BT and 2 as M.2 2280 socket for storage)

Overview

HP EliteDesk 800 G8 Small Form Factor PC



- 1. Audio line-out connector
- 2. (2) Dual-Mode DisplayPort™ 1.4a (DP++)
- 3. Optional Serial port (shown here installed)
- 4. Optional port, choice of (shown here USB-C® installed):

Serial

- DisplavPort™
 - Displayedit
- HDMI 2.0b
- VGA
- Dual Type-A SuperSpeed USB 5Gbps signaling rate port
- USB-C® SuperSpeed 10Gbps signaling rate port (Alt Mode DP 1.4 with 15W output)
- 5. RJ45 network connector
- 6. (2) Type A Hi-Speed USB 480 Mbps signaling rate port with wake from S4/S5
- 7. (2) Type A SuperSpeed USB 10Gbps signaling rate port

- 8. (1) Type A SuperSpeed USB 5Gbps signaling rate port
- 9. (1) Type A Hi-Speed USB 480 Mbps signaling rate port
- Internal WLAN antenna cover (optional, shown here not installed)
- 11. Standard cable lock slot
- 12. Intrusion sensor/hood lock (optional, shown here not installed)
- 13. Integrated keyboard/mouse wire hoop
- 14. Power cord connector

Not shown

Optional Ports

Thunderbolt™ 3 port card¹

PS/2 & serial port card (connected to the mainboard via a flyer cable)¹

Parallel port1

1. Each of the legacy port options would occupy one rear slot.

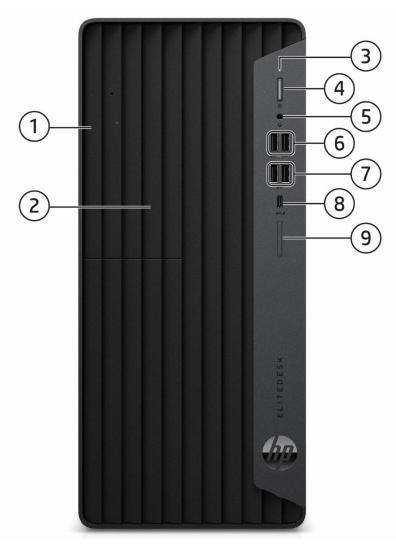
Bays

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



Overview

HP EliteDesk 800 G8 Tower PC



- 1. Slim optical drive (optional)
- 2. External 5.25-inch Half-Height Drive Bay (optional)
- 3. Hard drive activity light
- 4. Dual-state power button
- 5. Combo Audio Jack with CTIA and OMTP headset support
- 6. (2) Type-A SuperSpeed USB 10Gbps signaling rate port
- 7. (2) Type A SuperSpeed USB 5Gbps signaling rate port (1 with charge support up to 5V/1.5A)
- 8. Type-C® SuperSpeed USB 20Gbps signaling rate port (charge support up to 5V/3A)
- 9. SD card 4.0 reader (optional)

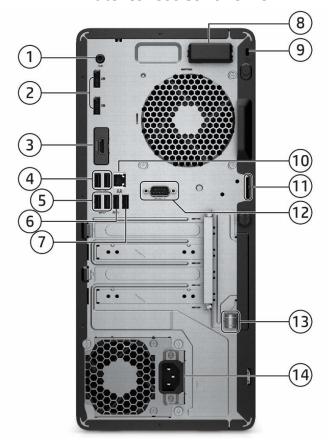
Not Shown

Slots

(2) PCI Express x16 graphics connectors (one wired as x4) (3) M.2 (1 as M.2 2230 socket for WLAN/BT and 2 as M.2 2280 socket for storage)

Overview

HP EliteDesk 800 G8 Tower PC



- Audio line-out jack connector 1.
- (2) Dual-Mode DisplayPort™ 1.4 (DP++) 2.
- Flex port, choice of (shown here HDMI installed): 3.
 - DisplayPort™ 1.4

 - HDMI 2.0b
 - VGA
- Dual Type-A SuperSpeed USB
- 5Gbps signaling rate port
- USB-C® SuperSpeed USB 10Gbps signaling rate port (USB-C® option has alt mode DisplayPort™ 1.4 and 15W output)
- (2) Type A Hi-Speed USB 480 Mbps signaling rate port with 13. Integrated keyboard/mouse wire hoop wake from S4/S5

Serial

- (2) Type A SuperSpeed USB 10Gbps signaling rate port 5.
- (1) Type A SuperSpeed USB 5Gbps signaling rate port 6.
- 7. (1) Type A Hi-Speed USB 480 Mbps signaling rate port
- 8. Internal WLAN antenna (optional, shown here installed)
- 9. Standard cable lock slot
- 10. RJ-45 (network) jack
- 11. Intrusion sensor/hood lock (optional, shown here not installed)
- 12. Serial port (optional, shown here not installed)
- 14. Power cord connector

Not shown **Optional ports**

Thunderbolt[™] 3 card¹

PS/2 & serial port card (connected to mainboard via a flyer cable) 1

Parallel Port1

1. Each of the legacy options will occupy one rear slot.

Bays

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



HP EliteOne 800 G8 24 & 27 All-in-One PC Touch/Non-Touch

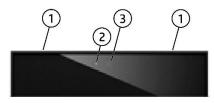


1. Camera (optional)

2. Speakers (optional)

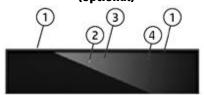
HP EliteOne 800 G8 24 & 27 All-in-One PC Touch/Non-Touch

5MP Pop-up Webcam (optional)



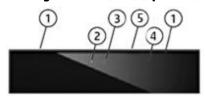
- 1. Dual Microphones
 - 2. Webcam Light
 - 3. SMP Webcam

5MP Pop-up Webcam +IR Sensor (optional)



- 1. Dual Microphones
 - 2. Webcam Light
- 3. IR/5MP Webcam 4. IR Light

5MP Pop-up Webcam +IR Sensor + Time of Flight Sensor (TOF) (optional)



- 1. Dual Microphones
 - 2. Webcam Light
- 3. IR/5MP Webcam 4. IR Light
 - 5. TOF Sensor

Dual Facing 5MP Pop-up Webcam Webcam +IR Sensor (optional)



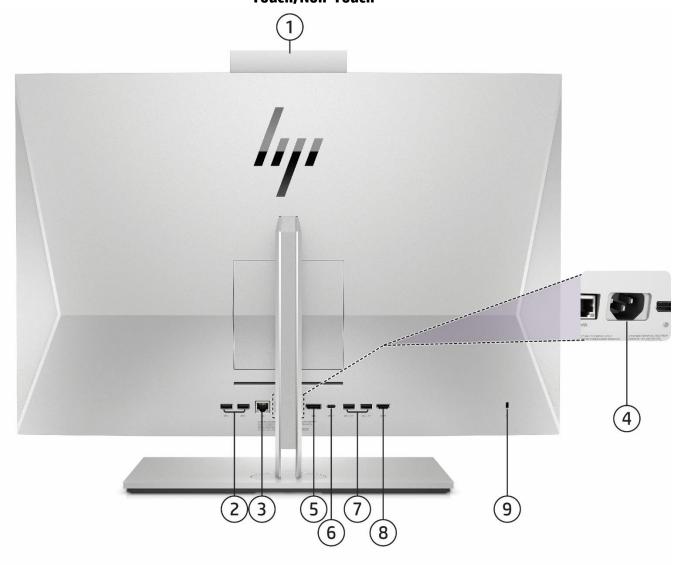
- 1. Dual Microphones
 - 2. Webcam Light
- 3. IR/5MP Webcam
 - 4. IR Light

HP EliteOne 800 G8 24 & 27 All-in-One PC Touch/Non-Touch



- 1. Type-A SuperSpeed USB 10Gbps signaling rate port (charge support up to 5V/3A)
- 2. Type-C® SuperSpeed USB 10Gbps signaling rate port (charge support up to (5V/3A)
- 3. Combo Audio Jack with CTIA and OMTP headset Support

HP EliteOne 800 G8 24 & 27 All-in-One PC Touch/Non-Touch



Rear components and rear ports

- 1. Camera (optional)
- 2. Type-A SuperSpeed USB 10Gbps signaling rate port (x2)
- 3. RJ-45 network connector/jack
- 4. Power Connector
- Dual-Mode DisplayPort™1.4 (DP++)

- Type-C[®] SuperSpeed USB 10Gbps signaling rate port (charge support up to (5V/3A)
- 7. Type-A SuperSpeed USB 5Gbps signaling rate port (x2)
- 8. HDMI-in 2.0a connector
- 9. Standard cable lock slot

HP EliteOne 800 G8 24 & 27 All-in-One PC Touch/Non-Touch



- 1. Dual-State Power button
- 2. OSD control buttons
- 3. SD card reader 4.0 (optional)

Bottom

- 3. SD card reader 4.0 (optional)
- 4. Fingerprint Sensor (optional)

Not shown

Slots

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

(2) internal M.2 PCIe x4 connector for optional m.2 SSD

VESA

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



Features

AT A GLANCE

- Choice of four form factors: Tower, Small Form Factor, Desktop Mini and All-In-One
- HP developed and engineered UEFI V2.7 BIOS supporting security, manageability and software image stability
- Intel® Q570 chipset supporting Intel® 11th generation Core™ processors, featuring integrated Intel® UHD Graphics and Intel® vPro® Technology (available with Core i5-11500 and above processors) ^{1,2}
- Support for three (3) M.2 Storage slots (All-in-One)
- Intel® Optane™ Memory H10 with Solid State Storage
- Intel® UHD graphics with optional discrete graphics configure systems to up to 7 monitors (TWR, SFF and DM 35W Processors only)
- Intel® Ethernet Connection I219LM GbE LOM integrated network connection
- Intel[®] Wi-Fi 6 + BT5.1 (802.11AX 2x2)
- DDR4 Synchronous Dynamic Random Access Memory (SDRAM) (Transfer rates up to 3200 MT/s)
- Support for up to 7 monitors via two standard DisplayPort™ 1.4 ports, a configurable Flex I/O port for video options and a
 discrete graphics card on TWRs, SFFs and DMs. All-in-One supports up to two additional monitors via DisplayPort™ or
 Type-C® USB in alternate mode.
- Configurable FlexPort which provides the following choices: HDMI 2.0b, Serial, VGA, DisplayPort™ 1.4, or USB Type-C® with DisplayPort™ 1.4 (USB Type-C® with DisplayPort™ 1.4 with Power Delivery [PD] on DMs), Thunderbolt 3 (PCIe card on TWR, SFF), Thunderbolt 3 with USB4.0 (port on DM and will be ready in post launch), and Dual USB Type-A for (TWRs, SFFs and DMs). See Ports section for port availability by platform. FlexPort not supported on All-in-One.
- 2nd FlexPort available for configuration on the HP EliteDesk G8 Desktop Minis with the following ports: mini-DisplayPorts and micro-HDMI (when configured with discrete graphic card), Serial, Dual USB Type-A, and 2nd external antenna.
- Configurable NVIDIA® GeForce®VR ready discrete graphics card with (3) mini-DisplayPorts and (1) micro-HDMI video port for DM³ to support up to (7) monitors with minimum 4K resolution and option to connect up to (3) monitors with 5K resolution via graphics card.
- Configurable AMD® Radeon, NVIDIA® GeForce® and NVIDIA® Quadro® VR ready discrete graphics on TWR 3
- Compatibility with HP Mini-In-One 24 Display (800 G8 DM with 100W USB-C +PD option card)
- Compatible with HP Reverb G2 VR Headset (TWR, DM)
- Models can be configured with multiple data drives in a RAID array
- Audio by Bang & Olufsen (All-in-One)
- Integrated Low Blue Light Panels on All-in-One (excludes 23.8" Touch Models)
- Enhanced Security with HP Security Suite (Refer to Security Section for details)
- ENERGY STAR® certified. EPEAT® 2019 registered where applicable. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit http://www.epeat.net for more information.
- CCC, CECP and SEPA Certified (TWR/SFF/DM/All-in-One)
- TCO Edge for All-in-One
- TCO (TWR/SFF/DM)
- PC chassis and all internal components and modules are manufactured with low halogen content⁴
- Dust filter available for following platforms (DM with 35W processor, SFFs and TWR)
- 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
- Compliance with CE (Class B) / FCC (Class B) / UL (UL60950-1 /UL62368-1) / CSA (CSA C22.2 No.60950-1-07 / CSA C22.2 No. 62368-1-14) / ICES-003 / CCC / VCCI (Class B) / KCC (Class B)
- 1. Multi core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- 2. Some functionality of vPro technology, such as Intel Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependent on 3rd party software providers. Compatibility of this generation of Intel vPro technology-based hardware with future "virtual appliances" is yet to be determined.
- 3. VR-ready as optional feature, specific configuration to support: 800 TWR: Nvidia GeForce 3070 card;800 DM: Nvidia GTX 1660Ti card.
- 4. External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.





Features

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

PRODUCT NAME

HP EliteDesk 800 G8 Tower PC

HP EliteDesk 800 G8 Small Form Factor PC

HP EliteDesk 800 G8 Desktop Mini PC

HP EliteOne 800 G8 24 All-in-One PC

HP EliteOne 800 G8 27 All-in-One PC

OPERATING SYSTEM

Preinstalled Windows 11 Pro¹

Windows 11 Pro Education¹

Windows 11 Home - HP recommends Windows 11 Pro for business1

Windows 11 Home Single Language - HP recommends Windows 11 Pro for business¹ Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement)¹

Windows 10 Pro^{1,2}

Windows 10 Pro Education^{1,2}

Windows 10 Home - HP recommends Windows 11 Pro for business^{1,2}

Windows 10 Home Single Language - HP recommends Windows 11 Pro for business^{1,2}

FreeDOS

Web-supported only Windows 10 Pro (Windows 10 Enterprise available with a Volume Licensing Agreement)^{1,3}

- 1. Device comes with Windows 10 and a free Windows 11 upgrade or may be preloaded with Windows 11. Upgrade timing may vary by device. Features and app availability may vary by region. Certain features require specific hardware (see Windows 11 Specifications).
- 2. 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 is automatically updated and enabled. High speed interneet and Microsoft account required. ISP fees apply and additional requirements may apply over time for updates. See http://www.windows.com.
- 3. This system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery 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.

NOTE: HP tested Windows 10, version 1909 on this platform. For testing information on newer versions of Windows 10, please see https://support.hp.com/document/c05195282.

CHIPSET

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® Q570	<u>X</u>	<u>X</u>	<u>x</u>	<u>x</u>



Features

PROCESSORS

Intel® 11 th Generation Core™ Processors	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® Core™ i9-11900 Processor with Intel® UHD Graphics 750 (2.5GHz, up to 5.2 GHz with Intel® Turbo Boost Technology¹, 16MB cache, 8 cores) 65W ^{2.3} Supports Intel® vPro® Technology⁴		х	х	х
Intel® Core™ i9-11900T Processor with Intel® UHD Graphics 750 (1.5GHz, up to 4.9GHz with Intel® Turbo Boost Technology¹, 16MB cache, 8 cores) 35W ^{2.3} Supports Intel® vPro® Technology⁴	х			
Intel® Core™ i7-11700 processor with Intel® UHD Graphics 750 (2.5 GHz, up to 4.9 GHz with Intel® Turbo Boost Technology¹, 16 MB cache, 8 cores) 65W ^{2.3} Supports Intel® vPro® Technology⁴	х	x	х	х
Intel® Core™ i7-11700T Processor with Intel® UHD Graphics 750 (1.4 GHz, up to 4.6 GHz with Intel® Turbo Boost Technology¹,16MB cache, 8 cores) 35W ^{2.3} Supports Intel® vPro® Technology⁴	Х			
Intel® Core™ i5-11600 processor with Intel® UHD Graphics750 (2.8 GHz, up to 4.8 GHz with Intel Turbo Boost Technology¹, 12 MB cache, 6 cores) 65W ^{2.3} Supports Intel® vPro® Technology⁴	Х	х	х	x
Intel® Core™ i5-11600T processor with Intel® UHD Graphics 750 (1.7GHz, up to 4.1 GHz with Intel Turbo Boost Technology¹, 12 MB cache, 6 cores) 35W ^{2.3} Supports Intel® vPro® Technology⁴	Х			
Intel® Core™ i5-11500 processor with Intel® UHD Graphics 750 (2.7GHz, up to 4.6 GHz with Intel Turbo Boost Technology¹, 12 MB cache, 6 cores) 65W ^{2.3} Supports Intel® vPro® Technology⁴	х	х	х	х
Intel® Core™ i5-11500T processor with Intel® UHD Graphics 750 (1.5GHz, up to 3.9 GHz with Intel Turbo Boost Technology¹, 12 MB cache, 6 cores) 35W ^{2.3} Supports Intel® vPro® Technology⁴	Х			
Intel® Core™ i5-11400 processor with Intel® UHD Graphics 730 (2.6 GHz, up to 4.4 GHz with Intel Turbo Boost Technology¹, 12 MB cache, 6 cores) 65W ^{2.3}	х	Х	Х	х
Intel® Core™ i5-11400T processor with Intel® UHD Graphics 730 (1.3GHz, up to 3.7 GHz with Intel Turbo Boost Technology¹, 12 MB cache, 6 cores) 35W ^{2.3}	Х			

^{1.} Intel® Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software and overall system. See http://www.intel.com/technology/turboboost for more information.



^{2.} Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a configuration measurement of higher performance.

^{3.} Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system.

^{4.} For full Intel® vPro® functionality, Windows 10 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See http://intel.com/vpro.

Features

GRAPHICS

Integrated Intel® Graphics	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® UHD Graphics 750 (integrated in 11 th gen Core i9/i7/i5-11500 and above)	X	X	Х	Х
Intel® UHD Graphics 730 (integrated in 11 th gen Core i5-11400 & i5- 11400T)	Х	Х	X	х

Optional Discrete Graphics Solutions	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
NVIDIA® GeForce® RTX 3070 8GB FH 3DP+HDMI Graphics Card LHR ¹			Х	
NVIDIA® Quadro P2200 5GB 4DP Graphics Card			Х	
NVIDIA® Quadro P1000 4GB 4mDP Graphics Card			Х	
NVIDIA® Quadro P620 2GB 4mDP Graphics Card		Х	Х	
NVIDIA® Quadro P400 2GB w/ 2mDP to DVI Graphics Card		X	Х	
NVIDIA® Quadro P400 2GB w/ 2mDP to DP Graphics Card		X	Х	
NVIDIA® GeForce® GTX 1660Ti 6GB 1m HMDI, 3m DP Graphics Card²	X			
AMD® Radeon™ RX 5300 3GB NGC Graphics Card				
AMD® Radeon™ RX 550X 4GB FH DP+HDMI Graphics Card¹		X	Х	
AMD® Radeon™ R7 430 2GB DP+VGA³		X	Х	
AMD® Radeon™ R7 430 2GB 2DP³		X	Х	

^{1.} Requires 550W chassis. LHR 25 MH/s ETH hash rate (est.).

NOTE: The TWR can support a single discrete graphics card up to 300W with a 550W Power Supply.

oters and Cables	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP DisplayPort™ Cable	Х	X	X	Х
HP DisplayPort™ to DVI-D Adapter	Х	Х	Х	Х
HP DisplayPort™ to HDMI True 4K Adapter	Х	X	X	Х
HP DisplayPort™ to VGA Adapter	Х	Х	Х	Х
HP USB to Serial Port Adapter	Х	X	Х	Х
HP USB-C® to HDMI 4K Adapter		X	X	Х
HP USB-C® to DisplayPort Adapter				Х
HP DVI Cable				Х
HP HDMI Standard Cable Kit (HDMI)				Х
50cm USB-C Cable (100W power delivery)	Х			

^{2.} Only available on the Desktop Mini with a 35W Processor and supports (3) Mini DP 1.4 Ports and (1) Micro —HDMI 2.0 port in order to drive up to 7 displays directly on the Desktop Mini.

^{3.} Not available in all regions.

Features

STORAGE

3.5 inch SATA Hard Disk Drives (HDD)	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
500GB 7200RPM 3.5in SATA HDD		X	X	
1TB 7200RPM 3.5in SATA HDD		X	X	
2TB 7200RPM 3.5in SATA HDD		Х	Х	

2.5 inch SATA Hard Disk Drives (HDD)	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
500GB 7200RPM 2.5in SATA HDD	X	X	X	
1TB 7200RPM 2.5in SATA HDD	X	X	X	
2TB 5400RPM 2.5in SATA HDD	X	X	X	
500GB 7200RPM 2.5in Self Encrypted OPAL2 SATA HDD*	X	Х	X	
500GB 7200RPM 2.5in Self Encrypted Federal Information Processing Standard SATA HDD*	Х	Х	Х	

^{*} Storage DriveLock does not work with Self Encrypting or Optane based storage

PCIe NMVe Solid State Drives (SSD)	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
256GB M.2 2280 PCIe NVMe SSD	Х	Х	X	Х
512GB M.2 2280 PCIe NVMe SSD	Х	Х	Х	Х
128GB M.2 2280 PCIe NVMe Three Layer Cell SSD				
256GB M.2 2280 PCIe 3NVMe Three Layer Cell SSD	Х	X	X	Х
256GB M.2 2280 PCIe 4NVMe Three Layer Cell SSD	Х	X	X	Х
512GB M.2 2280 PCIe 3 NVMe Three Layer Cell SSD	Х	X	X	Х
512GB M.2 2280 PCIe 4 NVMe Three Layer Cell SSD	Х	X	X	Х
1TB M.2 2280 PCIe 3 NVMe Three Layer Cell SSD	Х	Х	X	Х
1TB M.2 2280 PCIe 4 NVMe Three Layer Cell SSD	Х	Х	X	Х
2TB M.2 2280 PCIe 3 NVMe Three Layer Cell SSD	Х	X	X	Х
2TB M.2 2280 PCIe 4NVMe Three Layer Cell SSD	X	X	X	Х
256GB M.2 2280 PCIe NVMe Self Encrypted OPAL2 Three Layer Cell SSD*	Х	X	Х	Х
512GB M.2 2280 PCIe NVMe Self Encrypted OPAL2 Three Layer Cell SSD*	Х	X	Х	Х
256GB Intel® Optane™ Memory H10 with Solid State Storage*,**	Х	X	X	Х
512GB Intel® Optane™ Memory H10 with Solid State Storage*,**	Х	X	Х	Х

NOTE* Storage DriveLock does not work with Self Encrypting or Optane based storage.

NOTE** Intel® Optane™ H10 memory system acceleration does not replace or increase the DRAM in your system. Requires 8th Gen or higher Intel® Core™ processor, BIOS version with Intel® Optane™ supported, Windows 10 64-bit, and an Intel® Rapid Storage Technology (Intel® RST) driver.



Features

Optio	cal Disc Drives	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
	HP 9.5mm Slim DVD-ROM Drive ¹		X	X	
	HP 9.5mm Slim DVD Writer Drive ¹		Х	Х	

^{1.} HD-DVD disks 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.

Media Card Reader	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u> AiO</u>
SD 4.0 with 5-in-1 Interface (Supports SD, SDXC, SDHC, UHS-I, UHS-II)		Х	Х	Х

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

MEMORY

Memory Type	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
DDR4-3200, 64 GB, 2 SODIMM	Х			X
DDR4-3200 (Transfer rates up to 3200 MT/s), 64 GB, 4 DIMM		X		
DDR4-3200 (Transfer rates up to 2933 MT/s), 128 GB, 4 DIMM		X	X	

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

NOTE: Memory modules support data transfer rates up to 3200 MT/s; actual data rate is determined by the system configured.

NOTE: When more than one memory slot is populated, symmetric configurations are required for 2 DIMMs per channel. Mix of different data transfer rates or memory rank mix within the same channel is not allowed.

NOTE: All memory slots are customer accessible / upgradeable.

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.





Features

NETWORKING/COMMUNICATIONS

Ether	net (RJ-45)	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
	Intel® I219-LM 1 Gigabit Network Connection LOM (vPro)	X	X	X	Х
	Intel® I225-T1 2.5 Gigabit Network Connection LOM (optional)	Х	Х	Х	

Wireless ¹	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® Wi-Fi 6 AX201 + BT5.1 (802.11AX 2x2 vPro, supporting gigabit data rate²)	Х	Х	Х	X
Intel® Wi-Fi 6 AX201 + BT5.1 (802.11AX 2x2 non-vPro, supporting gigabit data rate²)	Х	Х	Х	
Realtek RTL8852AE 802.11ax 2x2 Wi-Fi® 6 + BT5.2	X	X	X	
Realtek RTL8822CE 802.11ac 2x2 Wi-Fi® + BT5				Х

^{1.} Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 (802.11ax) is backwards compatible with prior 802.11 specs.

KEYBOARDS AND POINTING DEVICES

Keyboards	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP USB 320K Keyboard	Х	X	X	X
HP USB Business Slim Wired SmartCard CCID Keyboard	X	X	X	X
HP Business Slim PS/2 Wired Keyboard		X	X	
HP 125 Wired Keyboard	X	X	X	X
HP 125 AntiMic USB Wired Keyboard ¹	Х	X	X	X
HP USB PS/2 Washable Wired Keyboard	X	X	Х	X

Keyboard and Mouse Combo	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP Wireless Keyboard and Mouse Business Slim Keyboard	Х	Х	Х	X
HP USB Wired Keyboard and Mouse Premium Keyboard X X X		Х	X	
HP Wireless Keyboard and Mouse Premium Keyboard	X	Х	Х	X

use	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP Wired 320M Mouse	X	X	Х	Х
HP PS/2 Mouse		X	Х	
HP USB Fingerprint Reader Wired Mouse	X	X	Х	Х
HP USB PS/2 Washable Wired Mouse	X	X	Х	Х
HP Wired 125 Mouse	X	X	Х	Х
HP Wired 128 Laser Mouse	X	X	Х	Х
HP Wired 125 Antimicrobial Mouse	X	X	Х	Х

^{1.} Availability may vary by country



^{2.} Wi-Fi 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.

Features

SECURITY

	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
TPM 2.0 endpoint security controller (Infineon SLB9670) shipped with Windows 10. Common Criteria EAL4+ Certified. FIPS 140-2 Level 2 Certified.	х	х	х	х
Solenoid Lock & Intrusion Sensor (optional)		X	X	
Intrusion Sensor for DM/AiO (integrated in the PCA, can be enabled/disabled through BIOS)	X			X
Support for chassis cable lock devices	X (10 mm barrel or smaller)	х	x	х
Support for chassis padlocks devices	X	X	X	
HP Fingerprint Sensor (optional)				X
SATA port disablement (via BIOS)	X	X	X	
Serial, USB enable / disable (via BIOS)	X	X	X	Х
Serial, parallel, USB enable / disable (via BIOS)	Х	X	X	X
Optional USB Port Disable at factory (user configurable via BIOS)	X	X	X	Х
Removable media write/boot control	Х	X	X	X
Power-on password (via BIOS)	X	X	X	X
Setup password (via BIOS)	X	X	Х	X



Features

PORTS

Ports – Internal Ports	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
PCI Express 4.0 x16		1	1	N/A
PCI Express 3.0 x16				
PCI Express 3.0 x16 (wired as x4)		1	1	
PCI Express 3.0 x4				
PCI Express 3.0 x1		2	2	
SATA port		4	4	N/A
Internal SATA storage connector	1			N/A
M.2 PCIe	(1) M.2 PCIe3 x1 2230 (for WLAN) (1) M.2 PCIe4 x4 2280 (for storage) (1) M.2 PCIe3 x4 2280 (for storage)	(1) M.2 PCIe 3 x1 2230 (for WLAN) (1) M.2 PCIe 4 x4 2280 (for storage) (1) M.2 PCIe 3 x4 2280 (for storage) ¹	_	(1) M.2 2230/2280 for WLAN (2) M.2 2280 for NVMe SSD One Attached to CPU PCIe Gen 4.0 Two attached to PCH PCIe Gen 3.0

1. M.2 SSD attached to CPU is PCIe Gen 4, the other two M.2 are PCIe Gen 3. **NOTE**: For Desktop Mini with M.2 Storage config, there will be no SATA drive bracket. If you plan to use or upgrade the storage with any 2.5" SATA drive, please select a DM SATA Drive Bracket (available as both factory configured and after market option).

ndard User Accessible Ports	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Type-A Hi-Speed USB 480Mbps signaling rate port		3 (rear)	3(rear)	
Type-A SuperSpeed USB 5 Gbps signaling rate port	1 (front) 2 (rear)	2 (front,1 fast charging) 1 (rear)	2 (front, 1 fast charging) 1 (rear)	2 rear
Type-A SuperSpeed USB 10 Gbps signaling rate port	1 (front) 2 (rear)	2 (front) 2 (rear)	2 (front) 2 (rear)	2 rear 1 side
Type-C® SuperSpeed USB 10 signaling rate Gbps port				1 rear 1 side
Type-C® SuperSpeed USB 20Gbps signaling rate port	1 (front)	1 (front)	1 (front)	
Video	2 DisplayPort™ 1.4	2 DisplayPort™ 1.4	2 DisplayPort™ 1.4	1 DisplayPort™ 1.4 (rear) 1 USB Type-C® with alt mode display or 15W output) (rear) 1 HDMI-In (rear)
Audio	1 Combo Audio Jack with CTIA and OMTP headset support (front)	1 Universal Audio Jack with CTIA and OMPT headset support (front); 1 Audio-Line out (rear)	1 Universal Audio Jack with CTIA and OMPT headset support (front); 1 Audio-Line out (rear)	1 CTIA/OMTP UAJ (side)



Features

Flexible Port 1, choice of <u>one</u> of following	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Dual Type-A SuperSpeed USB 5 Gbps signaling rate port	1	1	1	
Type-C® SuperSpeed USB 10Gbps signaling rate port	1 SuperSpeed USB 10Gbps signaling rate port w/ DisplayPort™ Alt Mode and power intake via USB Type-C® Power Delivery up to 100W	1	1	
Thunderbolt™ 3 ²	1 ³	1	1	
Video	1 DisplayPort™ 1.4 <u>or</u> HDMI 2.0b <u>or</u> VGA	1 DisplayPort™ 1.4 <u>or</u> HDMI 2.0b <u>or</u> VGA	1 DisplayPort™ 1.4 <u>or</u> HDMI 2.0b <u>or</u> VGA	
Serial	1 ³	1	1	
Fiber NIC Adapter	(1) 100Mbps NIC			
Fiber NIC Adapter	(1) 1 Gbps NIC			_
RJ-45 Ethernet NIC	(1) 2.5GbE			

- 2. Occupies a PCIe slot on TWR/SFF. Available in Q3, 2021.
- 3. Sold separately or as an optional feature.

(1) Flexible Port 2, choice of \underline{one} of the following:	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>
Type-A USB	2 Hi-Speed USB			
Serial	1			
Discrete Graphics	1			
2 nd External antenna	1			

NOTE: For Desktop Mini with M.2 Storage config, there will be no SATA drive bracket. If you plan to use or upgrade the storage with any 2.5" SATA drive, please select a DM SATA Drive Bracket (available as both factory configured and after market option).

Bays	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
5.25" Half Height (External)			1	
9mm Slim Optical Disc Drive (ODD)		1	1	
SD Card Reader		1	1	1
2.5" Internal Storage Drive	14	1	1	
3.5" Internal Storage Drive		2	2	

4. SATA 2.5" internal storage drive cannot be selected if, discrete graphic card is selected.





Features

USB SPECIFICATION AND MARKETING NAME MAPPING TABLE

Marketing Name	Technical Terminology
Hi-Speed USB 480Mbps signaling rate	USB 2.0
SuperSpeed USB 5Gbps signaling rate	USB 3.2 Gen 1
SuperSpeed USB 10Gbps signaling rate	USB 3.2 Gen 2
SuperSpeed USB 20Gbps signaling rate	USB 3.2 Gen 2x2



Features

SOFTWARE COMPONENTS AND APPLICATIONS WITH WINDOWS

BIOS

HP BIOSphere Gen6¹
HP Secure Erase²
Absolute Persistence Module³
HP Drive Lock & Automatic Drive Lock⁴
BIOS Update via Network
HP Wake on WLAN

HP Desktop Support Utilities

Software

HP Connection Optimizer⁵
HP Easy Clean⁶
myHP
HP Privacy Settings
HP PC Hardware Diagnostics
Touchpoint Customizer for Commercial
HP Notifications
HP Presence Aware⁷
HP Setup Integrated OOBE
HP Support Assistant⁸
HP Noise Cancellation Software
HP QuickDrop⁹
Microsoft Defender
Buy Microsoft Office (sold separately)

Manageability Features

HP Smart Support¹⁰

HP Driver Packs (download)¹¹
HP Client Catalog (download)
HP Image Assistant (download)
HP Manageability Integration Kit for Microsoft System Center Configuration Management Gen4 (download)¹²
Ivanti Management Suite (download)¹³
HP Cloud Recovery¹⁴
HP Client Management Script Library (download)

Security Management

HP Tamper Lock

HP Pro Security Edition (optional)¹⁵
HP Client Security Manager Gen7¹⁶
HP Sure Sense¹⁷
HP Sure Admin¹⁸
HP Sure Click¹⁹
HP Sure Start Gen6²⁰
HP Sure Run Gen4²¹
HP Sure Recover Gen4²²

TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified)

- 1. HP BIOSphere Gen6 requires Windows 10 and is available on select HP Pro and Elite PCs. Features may vary depending on the platform and configurations.
- 2. HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.
- 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



Features

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. Drive Lock is not supported on NVMe drives.
- 5. HP Connection Optimizer requires Windows 10.
- 6. Not available with PS/2 keyboard / mouse.
- 7. HP Presence Aware requires a proximity sensor that is available on select EliteBooks and requires Windows Hello for authentication.
- 8. HP Support Assistant requires Windows and Internet access.
- 9. HP Quick Drop requires Internet access and Windows 10 PC preinstalled with HP QuickDrop app and either an Android device (phone or tablet) running Android 7 or higher with the Android HP QuickDrop app, and /or an iOS device (phone or tablet) running iOS 12 or higher with the iOS HP QuickDrop app.
- 10. HP Smart Support is available to commercial customers through your HP Service Representative and HP Factory Configuration Services; or it can be downloaded at: http://www.hp.com/smart-support. HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights.
- 11. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 12. HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html.
- 13. Ivanti Management Suite subscription required.
- 14. HP Cloud Recovery is available for HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, wired network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: https://support.hp.com/us-en/document/c05115630.
- 15. HP Pro Security Edition is available preloaded on select HP PCs and includes HP Sure Click Pro and HP Sure Sense Pro. 3-year license required. The HP Pro Security Edition software is licensed under the license terms of the HP End User License Agreement (EULA) that can be found at: https://h30670.www3.hp.com/ecommerce/common/disclaimer.do#EN_US as modified by the following: "7. Term. Unless otherwise terminated earlier pursuant to the terms contained in this EULA, the license for the HP Pro Security Edition (HP Sure Sense Pro and HP Sure Click Pro) is effective upon activation and will continue for thirty-six (36) months thereafter ("Initial Term"). At the end of the Initial Term you may either (a) purchase a renewal license for the HP Pro Security Edition from HP.com, HP Sales or an HP Channel Partner, or (b) continue using the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no future software updates or HP Support." HP Pro Security Edition is optimized for the SMB environment and ships pre-configured manageability is optional. The HP Pro Security Edition supports a limited tool set that can be used by the HP Manageability Integration Kit which can be downloaded from http://www.hp.com/go/clientmanagement.

 16. HP Client Security Manager Gen7 requires Windows and is available on the select HP Elite and Pro PCs.
- 17. HP Sure Sense is available on select HP PCs and is not available with Windows 10 Home.
- 18. HP Sure Admin requires Windows 10, HP BIOS, HP Manageability Integration Kit from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store.
- 19. HP Sure Click requires Windows 10. See https://bit.ly/2PrLT6A_SureClick for complete details.
- 20. HP Sure Start Gen6 is available on select HP PCs and requires Windows 10.
- 21. HP Sure Run Gen4 is available on select HP PCs and requires Windows 10.
- 22. HP Sure Recover Gen4 is available on select HP PCs and requires Windows 10 and an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. Network based recovery using Wi-Fi is only available on PCs with Intel Wi-Fi Module.



Features

ENVIRONMENTAL & INDUSTRY

ENERGY STAR® certified models available

ENERGY STAR® certified. EPEAT® 2019 registered where applicable. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit http://www.epeat.net for more information.

Low halogen (chassis, all internal components and modules)1

TAA compliant models available

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

UNIT ENVIRONMENT AND OPERATING CONDITIONS

General Unit Operating Guidelines

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

Temperature Range Operating: 50° to 95° F (10° to 35° C)²

Non-operating: -22° to 149° F (-30° to 65° C)

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

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

Maximum Altitude Operating: 5000m

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

2. 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.





Features

HP EliteDesk 800 Desktop Eco-Label Certifications & declarations	 Mini G8 series 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® ENERGY STAR® certified. EPEAT® 2019 registered where applicable. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit http://www.epeat.net for more information. 				
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the				
Energy Consumption (in accordance with US ENERGY STAR® test method)	Desktop model is based on a "Typically Configured Desktop. 115VAC, 60Hz 230VAC, 50Hz 100VAC, 50Hz				
Normal Operation (Short idle)	7.795 watt	7.923 w	att	7.573 watt	
Normal Operation (Long idle)	6.931 watt	7.02 wa	tt	6.746 watt	
Sleep	0.8199 watt	0.851 w	att	0.7776 watt	
Off	0.6586 watt	0.672 w		0.633 watt	
Heat Biochesticus	NOTE: Energy efficiency data listed is family. HP computers marked with the Environmental Protection Agency (EP not offer ENERGY STAR® certified compC featuring a hard disk drive, a high 6	e ENERGY STAR® Logo a A) ENERGY STAR® speci figurations, then energ efficiency power supply	are compliant with fications for comp y efficiency data li , and a Microsoft	n the applicable U.S. outers. If a model family does isted is for a typically configured Windows® operating system.	
Heat Dissipation*	115VAC, 60Hz	230VAC, 5	OHZ	100VAC, 50Hz	
Normal Operation (Short idle)	26.58095 BTU/hr	27.01743 B	TU/hr	25.82393 BTU/hr	
Normal Operation (Long idle)	23.63471 BTU/hr	23.9382 BTU/hr 23.003		23.00386 BTU/hr	
Sleep	2.795859 BTU/hr	2.90191 B		2.651616 BTU/hr	
Off	2.245826 BTU/hr NOTE: Heat dissipation is calculated b one hour.	2.29152 B ⁻ ased on the measured		2.15853 BTU/hr the service level is attained for	
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power Sound Pressure (L _{pAm} , decibels)				
Typically Configured – Idle	2.7			17	
Fixed Disk – Random writes	2.7 17				
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.				
Batteries	production. 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				



Features

	 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. 			
		ct is in compliance with California Proposition 65 (State of	California; Safe Drinking	
		oxic Enforcement Act of 1986).	_	
		$AR^{ exttt{@}}$ certified. $EPEAT^{ exttt{@}}$ 2019 registered where applicable. E		
		according to IEEE 1680.1-2018 EPEAT®. EPEAT® status va	ries by country. Visit	
		epeat.net for more information.	L	
		rts weighing over 25 grams used in the product are marke		
		ct contains a minimum of 35% post-consumer recycled pla	istic (by wt.); including 10%	
		post-consumer recycled plastic*	- £ 1:£-	
	• This produc	t is 95.1% recycle-able when properly disposed of at end	or lire.	
	*NOTE: Recyc	ed plastic content percentage is based on the definition set in th	e IEEE 1680.1-2018 standard.	
Packaging Materials	External:	PAPER/Corrugated	405 g	
		PAPER/Molded pulp	74 g	
	Internal:	PLASTIC/Polyethylene low density	3 g	



Features

Packaging Usage

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

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

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

End-of-life Management and Recycling

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

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

Global Citizenship Report

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

Eco-label certifications

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

ISO 14001 certificates:

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

and

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





Features

HP EliteDesk 800 Small Form Factor G8 series

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® • ENERGY STAR® certified. EPEAT® 2019 registered where applicable. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit http://www.epeat.net for more information.			
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Desktop model is based on a "Typically Configured Desktop.			
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 5	iOHz	100VAC, 50Hz
Normal Operation (Short idle)	11.855 watt	11.867 w	att	11.861 watt
Normal Operation (Long idle)	10.741 watt	10.789 w	att	10.782 watt
Sleep	0.862 watt	0.866 w	att	0.857 watt
Off	0.759 watt	0.762 w	att	0.755 watt
Heat Dissipation*	NOTE: Energy efficiency data listed is f family. HP computers marked with the Environmental Protection Agency (EPA not offer ENERGY STAR® compliant cor configured PC featuring a hard disk driv system. 115VAC, 60Hz	ENERGY STAR® Logo a) ENERGY STAR® speci nfigurations, then ener	re compliant with fications for comp gy efficiency data wer supply, and a	n the applicable U.S. outers. If a model family does a listed is for a typically
Normal Operation (Short	115VAC, BURZ	23UVAL, 5	UNZ	TUUVAC, SURZ
idle)	40.42555 BTU/hr	40.46647 B	TU/hr	40.44601 BTU/hr
Normal Operation (Long idle)	36.6268 BTU/hr	36.79049 B		36.76662 BTU/hr
Sleep	2.9394 BTU/hr	2.95306 B		2.92237 BTU/hr
Off	2.5881 BTU/hr	2.59842 B	TU/hr	2.57455 BTU/hr
	NOTE: Heat dissipation is calculated be one hour.	ased on the measured	watts, assuming t	the service level is attained for
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power Sound Pressure (L _{PAm} , decibels)			
Typically Configured – Idle	3.1			20
Fixed Disk–Random writes				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: Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.			
Dattories	This battery(s) in this product comp	ply with EU Directive	2006/66/EC	
Batteries	Batteries used in the product do no Mercury greater the 1 ppm by weigh			
batteries	Batteries used in the product do no Mercury greater the1ppm by weigh Cadmium greater than 20ppm by w Battery size: CR2032 (coin cell)	nt		



Features

	Battery type:	: Lithium	
Additional Information	2011/65/EC. • This HP pro Directive – 20 • This product Water and To • ENERGY ST registration a http://www. • Plastics par • This product ITE-derived p • This product	duct is designed to comply with the Waste Electrical and E	lectronic Equipment (WEEE) California; Safe Drinking ased on US EPEAT® ies by country. Visit d per ISO11469 and ISO1043. stic (by wt.); Including 10% of life.
Dockasina Matariala	External:	- · · · · · · · · · · · · · · · · · · ·	
Packaging Materials	Internal:	PAPER/Corrugated PLASTIC/EPE (Expanded Polyethylene)	1158 g 320 g
	miternat.	PLASTIC/Polyethylene low density	28 q
Material Usage	to the HP Ger http://www.l	minated Flame Retardants — may not be used as flame retail Hydrocarbons of Paraffins yde end Diphenyl Methanes nates and sulfates ead compounds kide Batteries ishes must not be used on the external surface designed to e user. leting Substances nated Biphenyls (PBBs) nated Biphenyl Ethers (PBBEs) nated Biphenyl Oxides (PBBOs) eated Biphenyl (PCB) eated Terphenyls (PCT) hloride (PVC) — except for wires and cables, and certain retail emoved from most applications.	f): ardants in plastics o be frequently handled or



Features

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

HP EliteDesk 800 Tower G8 series

HP EliteDesk 800 Tower G	B series		
Eco-Label Certifications &	This product has received or is in the process of being certified to the following approvals and may		
declarations	be labeled with one or more of these marks:		
	IT ECO declaration		
	US ENERGY STAR®		
	US Federal Energy Management Program (FEMP)		
	 EPEAT[®] Gold registered in the United States. See http://www.epeat.net for registration status in your country. 		
	China Energy Conservation Program (CECP)		
	China State Environmental Protection Administration (SEPA)		
	Taiwan Green Mark		
	Korea Eco-label		
	Japan PC Green label*		
Sustainable Impact	Ocean-bound plastic in Bezel		
Specifications	• 50% post-consumer recycled plastic		
	• 80 Plus® Gold power supplies available		
	• Low halogen		
	Outside Box and corrugated cushions are 100% sustainably sourced and recyclable		
	Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable		
	Recycled Plastic cushions		
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Desktop model is based on a Typically Configured Desktop.		



Features

Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC,	50Hz	100VAC, 60Hz	
Normal Operation (Short idle)	10.982 watt	11.285 watt		10.881 watt	
Normal Operation (Long idle)	9.96 watt	10.203 watt		9.892 watt	
Sleep	0.886 watt	0.888 \		0.884 watt	
Off	0.762 watt	0.764 \	watt	0.759 watt	
	NOTE: Energy efficiency data listed is family. HP computers marked with the Environmental Protection Agency (EPA not offer ENERGY STAR® compliant conconfigured PC featuring a hard disk dri system.	ENERGY STAR® Logo A) ENERGY STAR® spe infigurations, then end	are compliant wit cifications for com ergy efficiency data	h the applicable U.S. puters. If a model family does a listed is for a typically	
Heat Dissipation*	115VAC, 60Hz	230VAC,	50Hz	100VAC, 60Hz	
Normal Operation (Short idle)	37.44862 BTU/hr	38.48185	BTU/hr	37.10421 BTU/hr	
Normal Operation (Long idle)	33.97042 BTU/hr	34.79223	BTU/hr	33.7317 BTU/hr	
Sleep	3.02126 BTU/hr	3.02808 l		3.0144 BTU/hr	
Off	2.59842 BTU/hr	2.60524 [3TU/hr	2.5881 BTU/hr	
	NOTE: Heat dissipation is calculated be one hour.	ased on the measure	d watts, assuming	the service level is attained for	
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L _{WAd} , bels)			Gound Pressure (L _{pAm} , decibels)	
Typically Configured – Idle	3.2			21	
Fixed Disk–Random writes	3.3			22	
Longevity and Upgrading	This product can be upgraded, pos features and/or components conta Spare parts are available throughout production.	ained in the produc	t may include:		
Batteries	This battery(s) in this product com	ply with EU Directiv	ve 2006/66/EC		
	Batteries used in the product do not Mercury greater the1ppm by weigh Cadmium greater than 20ppm by volume Battery size: CR2032 (coin cell) Battery type: Lithium	nt			
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). ENERGY STAR® certified. EPEAT® 2019 registered where applicable. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit http://www.epeat.net for more information Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043 				



Features

	• This produc	ct contains a minimum of 35% post-consumer recycled ploost-consumer recycled ploost-consumer recycled plastic* ct is 95.1% recycle-able when properly disposed of at end	l of life.
	*NOTE: Recycl	led plastic content percentage is based on the definition set in t	he IEEE 1680.1-2018 standard.
Packaging Materials	External:	PAPER/Corrugated	1114 g
		PAPER/Molded Pulp	788 g
Material Usage		PLASTIC/Polyethylene low density - LDPE	44 g
Packaging Usage	http://www. Asbestos Certain Azo Certain Bro Cadmium Chlorinated Formaldeh Halogenate Lead carbo Lead and Lo Mercuric Ox Nickel – fin carried by th Ozone Depl Polybromir Polybromir Polychlorin Polychlorin Polychlorin Polychlorin Tributyl Tir	This product does not contain any of the following substances in excess of regulatory limits (not 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 carried by the user. • Ozone Depleting Substances • Polybrominated Biphenyls (PBBs) • Polybrominated Biphenyl Ethers (PBBEs) • Polybrominated Biphenyl Ethers (PBBEs) • Polybrominated Biphenyl (PCB) • 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	
	 Eliminate the materials. Eliminate the Design paction Maximize the Use readily Reduce size 	nese guidelines to decrease the environmental impact of the use of heavy metals such as lead, chromium, mercury the use of ozone-depleting substances (ODS) in packaging kaging materials for ease of disassembly. The use of post-consumer recycled content materials in packaging materials such as paper and corruge and weight of packages to improve transportation fuel of kaging materials are marked according to ISO 11469 and	and cadmium in packaging materials. ackaging materials. gated materials. efficiency.
End-of-life Management and Recycling	HP Inc. offer recycle your	s end-of-life HP product return and recycling programs in product, please go to: http://www.hp.com/go/reuse-recy ce. Products returned to HP will be recycled, recovered or	many geographic areas. To vcle or contact your nearest



Features

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

Global Citizenship Report

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

Eco-label certifications

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

ISO 14001 certificates:

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

and

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



Features

HP EliteOne 800 G8 23.8-in All-in-One

HP EliteOne 800 G8 23.8-i	T _	C 1 1 .1C1 11	
Eco-Label Certifications & declarations	This product has received or is in the be labeled with one or more of the		following approvals and may
	 IT ECO declaration US ENERGY STAR® 		
		ant Duaguage (FEMD)	
	US Federal Energy Managem Deceded By US EDEAT® receivers	_	10 FDFAT® FDFAT® -+-+
		ation according to IEEE 1680.1-20 www.epeat.net for more inform	
	TCO Certified Edge	//www.epeat.net for more informa-	
	China Energy Conservation P	rogram (CECD)	
		rotection Administration (SEPA)	
	Taiwan Green Mark		
	Korea Eco-label		
	 Japan PC Green label* 		
System Configuration	The configuration used for the Ene	rgy Consumption and Declared No	ise Emissions data for the All-
	in-One PC model is based on a typic		d disk drive, a high efficiency
	power supply, and a Microsoft Wind	dows® operating system.	
Energy Consumption			
(in accordance with US	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
ENERGY STAR® test method)		·	
Normal Operation	+		
(Short idle)	14.97 watt	15.06 watt	14.79 watt
Normal Operation			
(Long idle)	2.36 watt	2.45 watt	2.18 watt
(==::5::5::5::5::5::5::5::5::5::5::5::5::	<u>II</u>		
Sleep	2.4 watt	2.42 watt	2.37 watt
	2.4 watt 0.97 watt NOTE: Energy efficiency data listed is f family. HP computers marked with the Environmental Protection Agency (EPA	ENERGY STAR® Logo are compliant w	ith the applicable U.S.
	0.97 watt NOTE: Energy efficiency data listed is f	0.98 watt or an ENERGY STAR® compliant produ ENERGY STAR® Logo are compliant w) ENERGY STAR® specifications for configurations, then energy efficiency da	0.94 watt ct if offered within the model ith the applicable U.S. nputers. If a model family does ita listed is for a typically
Sleep Off Heat Dissipation*	0.97 watt NOTE: Energy efficiency data listed is f family. HP computers marked with the Environmental Protection Agency (EPA not offer ENERGY STAR® compliant corconfigured PC featuring a hard disk driven.	0.98 watt or an ENERGY STAR® compliant produ ENERGY STAR® Logo are compliant w) ENERGY STAR® specifications for configurations, then energy efficiency da	0.94 watt ct if offered within the model ith the applicable U.S. inputers. If a model family does ita listed is for a typically
Off Heat Dissipation* Normal Operation	0.97 watt NOTE: Energy efficiency data listed is f family. HP computers marked with the Environmental Protection Agency (EPA not offer ENERGY STAR® compliant cor configured PC featuring a hard disk driv system.	0.98 watt or an ENERGY STAR® compliant produ ENERGY STAR® Logo are compliant w) ENERGY STAR® specifications for configurations, then energy efficiency day we, a high efficiency power supply, and	0.94 watt ct if offered within the model ith the applicable U.S. mputers. If a model family does ita listed is for a typically d a Microsoft Windows® operating
Heat Dissipation* Normal Operation (Short idle) Normal Operation	0.97 watt NOTE: Energy efficiency data listed is f family. HP computers marked with the Environmental Protection Agency (EPA not offer ENERGY STAR® compliant cor configured PC featuring a hard disk driv system. 115VAC, 60Hz	0.98 watt or an ENERGY STAR® compliant produ ENERGY STAR® Logo are compliant w b) ENERGY STAR® specifications for configurations, then energy efficiency days, a high efficiency power supply, and 230VAC, 50Hz	0.94 watt ct if offered within the model ith the applicable U.S. mputers. If a model family does ita listed is for a typically d a Microsoft Windows® operating
Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle) Sleep	0.97 watt NOTE: Energy efficiency data listed is f family. HP computers marked with the Environmental Protection Agency (EPA not offer ENERGY STAR® compliant cor configured PC featuring a hard disk driv system. 115VAC, 60Hz 51.0477 BTU/hr 8.0476 BTU/hr	0.98 watt or an ENERGY STAR® compliant produ ENERGY STAR® Logo are compliant w) ENERGY STAR® specifications for configurations, then energy efficiency days, a high efficiency power supply, and 230VAC, 50Hz 51.3546 BTU/hr 8.3545 BTU/hr	0.94 watt ct if offered within the model ith the applicable U.S. inputers. If a model family does it a listed is for a typically dia Microsoft Windows® operating 100VAC, 50Hz 50.4339 BTU/hr 7.4338 BTU/hr 8.0817 BTU/hr
Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle) Sleep	0.97 watt NOTE: Energy efficiency data listed is f family. HP computers marked with the Environmental Protection Agency (EPA not offer ENERGY STAR® compliant cor configured PC featuring a hard disk driv system. 115VAC, 60Hz 51.0477 BTU/hr 8.0476 BTU/hr	0.98 watt or an ENERGY STAR® compliant produ ENERGY STAR® Logo are compliant w) ENERGY STAR® specifications for configurations, then energy efficiency day ve, a high efficiency power supply, and 230VAC, 50Hz 51.3546 BTU/hr 8.3545 BTU/hr	0.94 watt ct if offered within the model ith the applicable U.S. inputers. If a model family does it a listed is for a typically it a Microsoft Windows® operating 100VAC, 50Hz 50.4339 BTU/hr 7.4338 BTU/hr
Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle) Sleep	0.97 watt NOTE: Energy efficiency data listed is f family. HP computers marked with the Environmental Protection Agency (EPA not offer ENERGY STAR® compliant cor configured PC featuring a hard disk driv system. 115VAC, 60Hz 51.0477 BTU/hr 8.0476 BTU/hr	0.98 watt or an ENERGY STAR® compliant produ ENERGY STAR® Logo are compliant w) ENERGY STAR® specifications for configurations, then energy efficiency days, a high efficiency power supply, and 230VAC, 50Hz 51.3546 BTU/hr 8.3545 BTU/hr 3.3418 BTU/hr	0.94 watt ct if offered within the model ith the applicable U.S. mputers. If a model family does ita listed is for a typically dia Microsoft Windows® operating 100VAC, 50Hz 50.4339 BTU/hr 7.4338 BTU/hr 8.0817 BTU/hr 3.2054 BTU/hr
Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off Declared Noise Emissions	0.97 watt NOTE: Energy efficiency data listed is f family. HP computers marked with the Environmental Protection Agency (EPA not offer ENERGY STAR® compliant cor configured PC featuring a hard disk driv system. 115VAC, 60Hz 51.0477 BTU/hr 8.0476 BTU/hr 8.184 BTU/hr 3.3077 BTU/hr	0.98 watt or an ENERGY STAR® compliant produ ENERGY STAR® Logo are compliant w) ENERGY STAR® specifications for configurations, then energy efficiency days, a high efficiency power supply, and 230VAC, 50Hz 51.3546 BTU/hr 8.3545 BTU/hr 3.3418 BTU/hr	0.94 watt ct if offered within the model ith the applicable U.S. mputers. If a model family does ita listed is for a typically dia Microsoft Windows® operating 100VAC, 50Hz 50.4339 BTU/hr 7.4338 BTU/hr 8.0817 BTU/hr 3.2054 BTU/hr
Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with	0.97 watt NOTE: Energy efficiency data listed is f family. HP computers marked with the Environmental Protection Agency (EPA not offer ENERGY STAR® compliant cor configured PC featuring a hard disk driv system. 115VAC, 60Hz 51.0477 BTU/hr 8.0476 BTU/hr 8.184 BTU/hr 3.3077 BTU/hr NOTE: Heat dissipation is calculated ba one hour.	0.98 watt or an ENERGY STAR® compliant produ ENERGY STAR® Logo are compliant w) ENERGY STAR® specifications for configurations, then energy efficiency days, a high efficiency power supply, and 230VAC, 50Hz 51.3546 BTU/hr 8.3545 BTU/hr 3.3418 BTU/hr	0.94 watt ct if offered within the model ith the applicable U.S. inputers. If a model family does it a listed is for a typically dia Microsoft Windows® operating 100VAC, 50Hz 50.4339 BTU/hr 7.4338 BTU/hr 8.0817 BTU/hr 3.2054 BTU/hr
Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with	0.97 watt NOTE: Energy efficiency data listed is f family. HP computers marked with the Environmental Protection Agency (EPA not offer ENERGY STAR® compliant cor configured PC featuring a hard disk driv system. 115VAC, 60Hz 51.0477 BTU/hr 8.0476 BTU/hr 8.184 BTU/hr 3.3077 BTU/hr NOTE: Heat dissipation is calculated ba one hour. Sound Power (Lwad, bels)	0.98 watt or an ENERGY STAR® compliant produ ENERGY STAR® Logo are compliant w) ENERGY STAR® specifications for configurations, then energy efficiency days, a high efficiency power supply, and 230VAC, 50Hz 51.3546 BTU/hr 8.3545 BTU/hr 3.3418 BTU/hr	0.94 watt ct if offered within the model ith the applicable U.S. inputers. If a model family does it a listed is for a typically dia Microsoft Windows® operating 100VAC, 50Hz 50.4339 BTU/hr 7.4338 BTU/hr 8.0817 BTU/hr 3.2054 BTU/hr g the service level is attained for Sound Pressure (LpAm, decibels)
Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle	0.97 watt NOTE: Energy efficiency data listed is f family. HP computers marked with the Environmental Protection Agency (EPA not offer ENERGY STAR® compliant cor configured PC featuring a hard disk driv system. 115VAC, 60Hz 51.0477 BTU/hr 8.0476 BTU/hr 8.184 BTU/hr 3.3077 BTU/hr NOTE: Heat dissipation is calculated bat one hour. Sound Power (LwAd, bels)	0.98 watt or an ENERGY STAR® compliant produ ENERGY STAR® Logo are compliant w) ENERGY STAR® specifications for configurations, then energy efficiency days, a high efficiency power supply, and 230VAC, 50Hz 51.3546 BTU/hr 8.3545 BTU/hr 3.3418 BTU/hr	0.94 watt ct if offered within the model ith the applicable U.S. inputers. If a model family does it a listed is for a typically dia Microsoft Windows® operating 100VAC, 50Hz 50.4339 BTU/hr 7.4338 BTU/hr 8.0817 BTU/hr 3.2054 BTU/hr g the service level is attained for Sound Pressure (L _{pAm} , decibels) 13.6
Off	0.97 watt NOTE: Energy efficiency data listed is f family. HP computers marked with the Environmental Protection Agency (EPA not offer ENERGY STAR® compliant cor configured PC featuring a hard disk driv system. 115VAC, 60Hz 51.0477 BTU/hr 8.0476 BTU/hr 8.184 BTU/hr 3.3077 BTU/hr NOTE: Heat dissipation is calculated ba one hour. Sound Power (Lwad, bels)	0.98 watt or an ENERGY STAR® compliant produ ENERGY STAR® Logo are compliant w) ENERGY STAR® specifications for configurations, then energy efficiency days, a high efficiency power supply, and 230VAC, 50Hz 51.3546 BTU/hr 8.3545 BTU/hr 8.2522 BTU/hr 3.3418 BTU/hr ased on the measured watts, assuming	0.94 watt ct if offered within the model ith the applicable U.S. inputers. If a model family does it a listed is for a typically dia Microsoft Windows® operating 100VAC, 50Hz 50.4339 BTU/hr 7.4338 BTU/hr 8.0817 BTU/hr 3.2054 BTU/hr g the service level is attained for Sound Pressure (L _{pAm} , decibels) 13.6 13.6
Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random writes	NOTE: Energy efficiency data listed is f family. HP computers marked with the Environmental Protection Agency (EPA not offer ENERGY STAR® compliant corconfigured PC featuring a hard disk drivsystem. 115VAC, 60Hz 51.0477 BTU/hr 8.0476 BTU/hr 8.184 BTU/hr 3.3077 BTU/hr NOTE: Heat dissipation is calculated barone hour. Sound Power (LwAd, bels) 2.5 2.5 This product can be upgraded, poss	0.98 watt or an ENERGY STAR® compliant produ ENERGY STAR® Logo are compliant w) ENERGY STAR® specifications for configurations, then energy efficiency days, a high efficiency power supply, and 230VAC, 50Hz 51.3546 BTU/hr 8.3545 BTU/hr 8.2522 BTU/hr 3.3418 BTU/hr ased on the measured watts, assuming	0.94 watt ct if offered within the model ith the applicable U.S. inputers. If a model family does it a listed is for a typically dia Microsoft Windows® operating 100VAC, 50Hz 50.4339 BTU/hr 7.4338 BTU/hr 8.0817 BTU/hr 3.2054 BTU/hr g the service level is attained for Sound Pressure (L _{pAm} , decibels) 13.6 13.6



Features

	1 mSATA1 2.5" into1 5.25" ex	D Type A - 35W slot slot ernal bay supporting up to Two 2.5" hard drives (HDD/SSD/ sternal supporting optical drive are available throughout the warranty period and or for up		
	production.		to 5 years after the end of	
Batteries	Batteries use	s) in this product comply with EU Directive 2006/66/EC ed in the product do not contain: her the1ppm by weight eater than 20ppm by weight		
	Battery type			
Additional Information	 This product is in compliance with the Restrictions of Hazard - 2011/65/EC. This HP product is designed to comply with the Waste Electr (WEEE) Directive – 2002/96/EC. This product is in compliance with California Proposition 65 Water and Toxic Enforcement Act of 1986). ENERGY STAR® certified. EPEAT® 2019 registered where appregistration according to IEEE 1680.1-2018 EPEAT®. EPEAT® www.epeat.net for more information. Plastics parts weighing over 25 grams used in the product and ISO1043. This product contains 51.7% post-consumer recycled plastice 1680.1-2018 standard, criterion 4.2.1.1. This product is 97.8% recycle-able when properly disposed of the standard of the product of the product		ical and Electronic Equipment (State of California; Safe Drinking plicable. Based on US EPEAT® status varies by country. Visit re marked per ISO11469 and c (by wt.) according to IEEE	
Packaging Materials	External:	PAPER/Corrugated	1.488 g	
	Internal:	PLASTIC/Polyethylene Expanded - EPE	1.052 g	
		ackaging material contains at least xx% recycled content.	ed content	
The corrugated paper packaging materials contains at least xx% recycled ROHS Compliance HP Inc. complies fully with materials regulations. We were among the first restrictions in the European Union (EU) Restriction of Hazardous Substant products worldwide through the HP GSE. HP has contributed to the devel legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in elimination of substances of concern. We have supported the inclusion of including PVC, BFRs, and certain phthalates—in future RoHS legislation to		irst companies to extend the ences (RoHS) Directive to our elopment of related n promoting industry-wide of additional substances—		
	and electron We met our v requirement scope of the evolve.		the new EU RoHS ill continue to extend the egulations continue to	
Material Usage	This product	does not contain any of the following substances in excess neral Specification for the Environment at np.com/hpinfo/globalcitizenship/environment/pdf/gse.pd	s of regulatory limits (refer	



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

Features

HP EliteOne 800 G8 27 All-in-One 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® • US Federal Energy Management Program (FEMP) • US EPEAT® registration according to IEEE 1680.1-2019 EPEAT®. Status 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 . • TCO Certified Edge • China Energy Conservation Program (CECP) • China State Environmental Protection Administration (SEPA) • Taiwan Green Mark • Korea Eco-label • Japan PC Green label*			
System Configuration		typically configured	l PC featuring a	Noise Emissions data for the All- hard disk drive, a high efficiency
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 5	50Hz	100VAC, 60Hz
Normal Operation (Short idle)	16.05 watt	16.14 w	att	15.88 watt
Normal Operation (Long idle)	2.23 watt	2.32 wa	att	2.05 watt
Sleep	2.26 watt	2.28 wa	att	2.23 watt
Off	0.93 watt	0.94 wa		0.9 watt
	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, 5	50Hz	100VAC, 60Hz
Normal Operation (Short idle)	54.7305 BTU/hr	55.0374 B	TU/hr	54.1508 BTU/hr
Normal Operation (Long idle)	7.6043 BTU/hr	7.9112 BT	U/hr	6.9905 BTU/hr
Sleep	7.7066 BTU/hr	7.7748 BT		7.6043 BTU/hr
Off	3.1713 BTU/hr	3.2054 BT	U/hr	3.069 BTU/hr
	NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.			
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)			Sound Pressure (L _P Am, decibels)	
Typically Configured – Idle	2.5			15.2
Fixed Disk – Random writes	2.5			15.2
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 MXM 3.0 1 mSATA : 1 2.5" inte 1 5.25" ex 	v slots e half-length slot) Type A - 35W slot	
Batteries	Batteries use	s) in this product comply with EU Directive 2006/66/ ed in the product do not contain: oter the1ppm by weight eater than 20ppm by weight	EC
		CR2032 (coin cell)	
Additional Information	Battery type: Lithium		
Packaging Materials	External:	PAPER/Corrugated	1.510 g
	Internal:	PLASTIC/Polyethylene Expanded - EPE	1.520 g
		packaging material contains at least xx% recycled co	
RoHS Compliance	The corrugated paper packaging materials contains at least xx% recycled content. HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam.		
	We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products.		
	requirement	roluntary objective to achieve worldwide compliance s for virtually all relevant products by July 2013, and commitment to include further restricted substance	we will continue to extend the
	To obtain a c	opy of the HP RoHS Compliance Statement, see: HP I	RoHS position statement.



Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):
	 Asbestos Certain Azo Colorants Certain Brominated Flame Retardants – may not be used as flame retardants in plastics Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins Bis(2-Ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) Dibutyl phthalate (BBP) Diisobutyl phthalate (DIBP) Formaldehyde Halogenated Diphenyl Methanes Lead carbonates and sulfates Lead and Lead compounds Mercuric Oxide Batteries Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user. Ozone Depleting Substances Polybrominated Biphenyls (PBBs) Polybrominated Biphenyl Ethers (PBBEs) Polybrominated Biphenyl (PCB) Polychlorinated Biphenyls (PCB) Polychlorinated Terphenyls (PCT) Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications. Radioactive Substances Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
Packaging Usage	 HP follows these guidelines to decrease the environmental impact of product packaging: Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. Eliminate the use of ozone-depleting substances (ODS) in packaging materials. Design packaging materials for ease of disassembly. Maximize the use of post-consumer recycled content materials in packaging materials. Use readily recyclable packaging materials such as paper and corrugated materials. Reduce size and weight of packages to improve transportation fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management and Recycling	HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.
	The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.



HP, Inc. Corporate Environmental	For more information about HP's commitment to the environment:
Information	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://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842
	and
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf



Features

SERVICE AND SUPPORT

HP EliteDesk 800 G8 Tower PC

On-site Warranty¹: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day² service for parts and labor and includes free support 24 x 7³. Three-year onsite and labor are not available in all countries. Service offers terms up to 5 years by choosing an optional HP Care Pack. To choose the right level of service for your HP product, visit HP Care Pack Central: http://www.hp.com/go/cpc.⁴

- 1. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.
- 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.
- 3. Technical telephone support applies only to HP-configured and third-party HP qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.
- 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.

HP EliteDesk 800 G8 Small Form Factor PC

On-site Warranty¹: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day² service for parts and labor and includes free support 24 x 7³. Three-year onsite and labor are not available in all countries. Service offers terms up to 5 years by choosing an optional HP Care Pack. To choose the right level of service for your HP product, visit HP Care Pack Central: http://www.hp.com/go/cpc.⁴

- 1. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.
- 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.
- 3. Technical telephone support applies only to HP-configured and third-party HP qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.
- 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.

HP EliteDesk 800 G8 Desktop Mini PC

On-site Warranty¹: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day² service for parts and labor and includes free support 24 x 7³. Three-year onsite and labor are not available in all countries. Service offers terms up to 5 years by choosing an optional HP Care Pack. To choose the right level of service for your HP product, visit HP Care Pack Central: http://www.hp.com/qo/cpc.⁴

- 1. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.
- 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.
- 3. Technical telephone support applies only to HP-configured and third-party HP qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.
- 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.



Features

HP EliteOne 800 G8 24 & 27 All-in-One PC

On-site Warranty¹: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day² service for parts and labor and includes free support 24 x 7³. Three-year onsite and labor are not available in all countries. Service offers terms up to 5 years by choosing an optional HP Care Pack. To choose the right level of service for your HP product, visit HP Care Pack Central: http://www.hp.com/go/cpc.⁴

- 1. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.
- 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.
- 3. Technical telephone support applies only to HP-configured and third-party HP qualified hardware and software. Toll-free calling and 24 x 7 support may not be available in some countries.
- 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.

CERTIFICATION AND COMPLIANCE

Energy Efficiency Compliance

ENERGY STAR® certified. EPEAT® 2019 registered where applicable. EPEAT® registration varies by country. See http://www.epeat.net for registration status by country. According to IEEE 1680.1-2018.



Technical Specifications – Processors

PROCESSORS

Intel® 11th Generation Core™ Processors

All HP EliteDesk 800 G8 Business PC models featuring this technology include processors that are part of the Intel® Stable Image Platform Program (SIPP) designed to ensure the stability promise inherent in the value proposition of the HP EliteDesk and EliteOne 800 G8 Business PC.

Intel® Management Engine (ME) v15 – 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 15 includes the following advanced management functions:

- Support for configuration of Intel ME 15.0 capabilities
- No reset after provisioning
- Support for Intel Enterprise Digital Fence
- The Platform Discovery Utility can now discover these additional Intel products:
 - Public Key Infrastructure
- Profile Editor and Profile Editor Plugin Interface
- Required Permissions for Solutions Framework





Technical Specifications – Display Panel Specifications

DISPLAY PANEL SPECIFICATIONS

23.8" diagonal IPS widescreen WLED backlit anti-glare LCD (1920 x 1080) non-touch or optional Projected Capacitive Touch supports up to 10 touch-points

Non-Touch Support HW low blue light feature

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

Refresh Rate 60 Hz @ 1920 x 1080

Aspect ratio 16:9

Pixel pitch (HxV)(mm) 0.2745 x 0.2745

Contrast ratio 1000:1
Brightness* 250nits
Viewing angle (HxV) 178 ° x 178 °

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

Color support Up to 16.7 million colors with the use of FRC technology

Color gamut NTSC 72%
Anti-glare Yes*
Response Time 14ms

Default color temperature Warm (6500K)

NOTE*: Actual brightness will be lower with touchscreen.

27.0" diagonal IPS widescreen WLED backlit anti-glare LCD (2560 x 1440) non Touch Support HW low blue light feature

 Type
 IPS WLED Backlit LCD

 Active area (mm)
 596.736 x 335.664

 Native Resolution (HxV)
 2560 x 1440

Refresh Rate 60 Hz @ 2560 x 1440

Aspect ratio 16:9

Pixel pitch (HxV)(mm) 0.2331 x 0.2331

Contrast ratio 1000:1

Brightness* 250nits

Viewing angle (HxV) 178° x 178°

Backlight lamp life (to half brightness) 30,000 hours minimum **Color support** Up to 16.7 million colors

Color gamutNTSC 72%Anti-glareYes*Response Time14ms

Default color temperature Warm (6500K)

NOTE*: Actual brightness will be lower with touchscreen.



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

^{2.} For All in One only Intel® HD Graphics (integrated).

Technical Specifications – Display Panel Specifications

Adjustable Height Stand:	Height - Vertical/Landscape Adjustment	130mm (±2 mm)
	Portrait Adjustment	No portrait
	Tilt Angle	-5° to +18° (±2°) in landscape and portrait
	Rotation (Swivel)	90° (±1°) (45 left, 45 right)
	Pivot	No pivot
Recline Stand:	Height - Vertical Adjustment	No height
	Tilt Angle	+36.5° to +58° (+/-1.5°)
	Rotation (swivel)	No swivel



Technical Specifications – Graphics

GRAPHICS

HP EliteDesk 800 G8 Desktop Mini PC

Intel® HD Graphics (integrated)

VGA Controller Integrated

DisplayPort™ Multimode capable; supports HDCP, Display Port Audio (2 streams), HBR2 link rates and Multi-

Stream Technology for a maximum of 3 displays connected to any output controlled by Intel®

Graphics

HDMI (optional) Supports HDMI 2.0b features

Supports HDCP 2.3

Supports audio over HDMI

VGA (optional) VGA output

USB-C® DP Alt Mode (optional) DisplayPort over the optional USB-C® module

Memory The actual amount of maximum graphics memory can be >4GB. System memory is allocated

for graphics as needed using Intel's Dynamic Video Memory Technology (DVMT), to provide an

optimal balance between graphics and system memory use.

Maximum Color Depth u Graphics/Video API Support H

up to 16 bits/color HEVC 10b Enc/12b Dec HW

VP9 12b Dec HW

HDR Rec. 2020 DX12

 Max. Resolution (VGA)
 2048 x 1536@60Hz

 Max. Resolution (HDMI)
 4096 x 2160@60Hz

 Max. Resolution (DP)
 4096 x 2160@60Hz

Nvidia® GeFORCE® GTX1660 Ti

Architecture Discrete GPU

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

DisplayPort Maximun pixel clock :1.3 GHz pixels per second

Maximun bandwidth: 25.92 Gbps per connector (FEC Disable)

HDMI Supports HDMI 2.0b features

Supports HDCP 2.2, HDR

Memory 6GByte, 192bit wide GDDR6

Maximum Color Depth up to 12 bits/color

Graphics/Video API Support DirectX 12

OpenGL 4.6

Display Port Support DP1.4(DSC1.2a)

Maximum pixel clock: 1.3 GHz pixels per second

Maximum bandwidth: 25.92 Gbps per connector (FEC Disable)

Max. Resolution (HDMI) 4096 x 2160@60Hz

Max. Resolution (DP) 5120 x 3200@60Hz Example of maximum resolutions with CVT-RB timings

Port Availability (3) Mini DP 1.4 ports and (1) Micro HDMI 2.0 port



Technical Specifications – Graphics

HP EliteDesk 800 G8 Tower PC

Intel® UHD Graphics (integrated)

VGA Controller Integrated

DisplayPort™ 1.4 Multimode capable; supports HDCP, Display Port Audio (2 streams), HBR2 link rates and Multi-

Stream Technology for a maximum of 3 displays connected to any output controlled by Intel®

Graphics

HDMI (optional) Supports HDMI 2.0b features

Supports HDCP 2.3

Supports BT2020 and HDR playback (7th Gen processors only)

VGA (optional) VGA ouput

USB-C® DP Alt Mode (optional) DisplayPort over the optional USB-C® module

Memory The actual amount of maximum graphics memory can be >4GB. System memory is allocated

for graphics as needed using Intel's Dynamic Video Memory Technology (DVMT), to provide an

optimal balance between graphics and system memory use.

Maximum Color Depth up to 16 bits/color

Graphics/Video API Support HEVC 10b Enc/12b Dec HW

VP9 12b Dec HW

HDR Rec. 2020 DX12

 Max. Resolution (VGA)
 2048 x 1536@60Hz

 Max. Resolution (HDMI)
 4096 x 2160@60Hz

 Max. Resolution (DP)
 4096 x 2160@60Hz

NVIDIA® GeForce® RTX 3070 Graphics Card LHR*

 Engine Clock
 1730 MHz

 Memory Clock
 8000 MHz

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

 Memory Type
 256M x 32 GDDR6

 Max. Resolution (HDMI)
 7680x4320@60Hz

 Max. Resolution (DP)
 7680x4320@60Hz

Multi Display Support 4 displays **HDCP Compliance** Yes

Rear I/O connectors (bracket) HDMIx1+ DPx3

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

Total power consumption (W) <220W

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

AMD® Radeon™ RX 550X Graphics Card

Engine Clock 1183MHz
Memory Clock 6 Gbps
Memory Size (width) 4 GB (128-bit)

Memory Type GDDR5

 Max. Resolution (HDMI)
 4096x2160 @ 60Hz

 Max. Resolution (DP)
 5120x2880 @ 60Hz

Multi Display Support 2 displays
HDCP Compliance Yes



^{*}NOTE: LHR 25 MH/s ETH hash rate (est.)

Technical Specifications – Graphics

Rear I/O connectors (bracket) HDMI, DPx2

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

Total power consumption (W) <50W

PCB form-factor with bracket LP (low profile) PCB with FH/LP bracket

NVIDIA® Quadro P620 Graphics Card

Engine Clock1354 MHzMemory Clock2500 MHzMemory Size (width)2GB (128-bit)Memory Type128M x 32 GDDR5Max. Resolution (DP)5120x2880@60Hz

Multi Display Support 4 displays

HDCP Compliance Yes **Rear I/O connectors (bracket)** mDPx4

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

Total power consumption (W) <40W

PCB form-factor with bracket LP PCB with LP bracket

NVIDIA® Quadro P400 Graphics Card

Engine Clock1252 MHzMemory Clock2000 MHzMemory Size (width)2GB (64-bit)Memory Type256M x 32 GDDR5Max. Resolution (DP)5120x2880@60Hz

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

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

Total power consumption (W) <30W

PCB form-factor with bracket LP PCB with LP bracket

AMD® Radeon™ R7 430 Graphics Card

Engine Clock780 MHzMemory Clock1100 MHzMemory Size (width)2 GB (64-bit)Memory Type256M x 32 GDDR5Max. Resolution (HDMI)2048x1536

Max. Resolution (DP) 4096x2160@60Hz

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

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

Total power consumption (W) <50W

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



Technical Specifications – Graphics

AMD® Radeon™ R7 430 Graphics Card

Engine Clock 780 MHz

Memory Clock 1100 MHz

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

Memory Type 256M x 32 GDDR5

Multi Display Support 2 displays

HDCP Compliance yes **Rear I/O connectors (bracket)** DPx2

Max. Resolution (DP)

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

4096x2160@60Hz

Total power consumption (W) <50W

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



Technical Specifications – Graphics

HP EliteDesk 800 G8 Small Form Factor PC

Intel® HD Graphics (integrated)

VGA Controller Integrated

DisplayPort™ 1.4 Multimode capable; supports HDCP, Display Port Audio (2 streams), HBR2 link rates and

Multi-Stream Technology for a maximum of 3 displays connected to any output controlled by

Intel® Graphics

HDMI (optional) Supports HDMI 2.0b features

Supports HDCP 2.3

Supports audio over HDMI

VGA (optional) VGA Output

USB-C® DP Alt Mode (optional) DisplayPort over the optional USB-C® module

Memory The actual amount of maximum graphics memory can be >4GB. System memory is allocated

for graphics as needed using Intel's Dynamic Video Memory Technology (DVMT), to provide

an optimal balance between graphics and system memory use.

Maximum Color Depth up to 16 bits/color

Graphics/Video API Support HEVC 10b Enc/12b Dec HW

VP9 12b Dec HW

HDR Rec. 2020 DX12

 Max. Resolution (VGA)
 2048 x 1536@60Hz

 Max. Resolution (HDMI)
 4096 x 2160@60Hz

 Max. Resolution (DP)
 4096 x 2160@60Hz

AMD® Radeon™ R7 430 Graphics Card

Engine Clock780 MHzMemory Clock1100 MHzMemory Size (width)1 GB (64-bit)Memory Type256M x 32 GDDR5Max. Resolution (HDMI)2048x1536

Max. Resolution (DP) 4096x2160@60Hz

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

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

Total power consumption (W) <50W

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

AMD® Radeon™ R7 430 Graphics Card

 Engine Clock
 780 MHz

 Memory Clock
 1100 MHz

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

 Memory Type
 256M x 32 GDDR5

 Max. Resolution (DP)
 4096x2160@60Hz

Multi Display Support2 displaysHDCP ComplianceyesRear I/O connectors (bracket)DPx2

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

Total power consumption (W) <50W



Technical Specifications – Graphics

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

AMD® Radeon™ RX550 Graphics Card

Engine Clock 1183MHz **Memory Clock** 6 Gbps

Memory Size (width) 4 GB (128-bit)

Memory Type GDDR5

 Max. Resolution (HDMI)
 4096x2160 @ 60Hz

 Max. Resolution (DP)
 5120x2880 @ 60Hz

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

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

Total power consumption (W) <50W

PCB form-factor with bracket LP (low profile) PCB with FH/LP bracket

AMD Radeon™ 520 Graphics Card

Engine Clock780 MHzMemory Clock1100 MHzMemory Size (width)1 GB (32-bit)Memory Type256M x 32 GDDR5Max. Resolution (DP)2048x1536@60Hz

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

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

Total power consumption (W) <50W

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

Technical Specifications – Graphics

HP EliteOne 800 G8 23.8-in All-in-One

Intel® UHD Graphics (integrated)

VGA Controller Integrated

DisplayPort™ 1.4 Multimode capable; supports HDCP, Display Port Audio (2 streams), HBR2 link rates and Multi-

Stream Technology for a maximum of 3 displays (including the integrated panel and all

attached displays)

HDMI-in Support HDMI-In

Memory The actual amount of maximum graphics memory can be >4GB. System memory is allocated

for graphics as needed using Intel's Dynamic Video Memory Technology (DVMT), to provide an

optimal balance between graphics and system memory use.

Maximum Color Depth Graphics/Video API Support up to 10 bits/color HEVC 10b Enc/Dec HW

VP9 10b Dec HW

HDR Rec. 2020 DX12

 Max. Resolution (VGA)
 2048 x 1536@60Hz

 Max. Resolution (HDMI)
 4096 x 2160@60Hz

 Max. Resolution (DP)
 4096 x 2160@60Hz



Technical Specifications – Storage

STORAGE

500GB 7200RPM 3.5in SATA HDD

Capacity500 GBRotational Speed7,200 rpmInterfaceSATA 6.0 Gb/s

Buffer Size32 MBLogical Blocks976,773,168Seek Time11 ms (Average)Height1 in/2.54 cm

Width Media diameter: 3.5 in/8.89 cm Physical size: 4 in/10.2 cm

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

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

1TB 7200RPM 3.5in SATA HDD

Capacity1 TBRotational Speed7,200 rpmInterfaceSATA 6 Gb/sBuffer Size64 MB

 Logical Blocks
 1,953,525,168

 Seek Time
 11 ms (Average)

 Height
 1 in/2.54 cm

Width (nominal) Media diameter: 3.5 in/8.89 cm

Physical size: 4 in/10.2 cm

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

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

2TB 7200RPM 3.5in SATA HDD

Capacity 2 TB

Rotational Speed 7,200 rpm

Interface SATA 6 Gb/s

Buffer Size 128 MB

 Logical Blocks
 3,907,050,336

 Seek Time
 11 ms (Average)

 Height
 1.028 in/26.11 mm

Width (nominal) Media diameter: 3.5 in/88.9 mm

Physical size: 4 in/102 mm

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



Technical Specifications – Storage

500GB 7200RPM 2.5in SATA HDD

Capacity 500 GB **Rotational Speed** 7,200 rpm Interface SATA 6 Gb/s **Buffer Size** Up to 128 MB **Logical Blocks** 976,773,168 **Seek Time** 12 ms (Average) 0.283 in/7.2 mm (Max.) Height Width (nominal) 2.75 in/70 mm (nominal)

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.

41° to 131° F (5° to 55° C)

1TB 7200RPM 2.5in SATA HDD

Operating Temperature

Capacity 1 TB **Rotational Speed** 7,200 rpm Interface SATA 6 Gb/s **Buffer Size** Up to 128 MB **Logical Blocks** 1,953,525,168 **Seek Time** 12 ms (Average) Height 0.283 in/7.2 mm (Max.) 2.75 in/70 mm (nominal) Width (nominal) **Operating Temperature** 41° to 131° F (5° to 55° C)

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

2TB 5400RPM 2.5in SATA HDD

Capacity 2 TB

Rotational Speed 5,400 rpm
Interface SATA 6 Gb/s

Buffer Size 128 MB

Logical Blocks 3,907,050,336

Seek Time 12 ms (Average)

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



Technical Specifications – Storage

500GB 7200RPM 2.5in Self Encrypted OPAL2 SATA HDD

Capacity 500 GB

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

 Interface
 SATA 6 Gb/s

 Buffer Size
 128 MB

 Logical Blocks
 976,773,168

 Seek Time
 12 ms (Average)

 Height
 0.283 in/7.2 mm (Max.)

 Width
 2.75 in/70 mm (nominal)

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

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

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

Capacity 500 GB

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

Interface SATA 6 Gb/s

Buffer Size 128 MB

Logical Blocks 976,773,168

Seek Time 12 ms (Average)

Height 0.283 in/7.2 mm (Max.)

Width 2.75 in/70 mm (nominal)

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

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

256GB M.2 2280 PCIe NVMe SSD

Drive Weight < 10g
Capacity 256 GB
Height 2.38mm
Length 80mm
Width 22mm
Interface PCIE Gen3
Maximum Sequential Read Up to 1600

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

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

Features APST; ASPM L1.2; NVME spec 1.2



Technical Specifications – Storage

512GB M.2 2280 PCIe NVMe SSD

Drive Weight < 10g
Capacity 512 GB
Height 2.38mm
Length 80mm
Width 22mm
Interface PCIE Gen3

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

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

Features APST; ASPM L1.2; NVME spec 1.2

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.

1TB M.2 2280 PCIe NVMe SSD

Drive Weight < 10g 1 TB Capacity Height 2.38mm Length 80mm Width 22mm **Interface** PCIE Gen3 **Maximum Sequential Read** Up to 2200MB/s **Maximum Sequential Write** Up to 1800MB/s **Logical Blocks** 1,000,215,216

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

Features APST: ASPM L1.2: NVME spec 1.2

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

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

Drive Weight < 10a 256GB Capacity Height 2.38mm Length 80mm Width 22mm Interface PCIE Gen3 **Maximum Sequential Read** Up to 2700MB/s **Maximum Sequential Write** Up to 1000MB/s **Logical Blocks** 500,118,192

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

Features APST; ASPM L1.2; NVME spec 1.2



Technical Specifications – Storage

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

Drive Weight < 10g
Capacity 512 GB
Height 2.38mm
Length 80mm
Width 22mm
Interface PCIE Gen3

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

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

Features APST; ASPM L1.2; NVME spec 1.2

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

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

Drive Weight < 10q 1 TB Capacity Height 2.38mm Length 80mm Width 22mm **Interface** PCIE Gen3 **Maximum Sequential Read** Up to 3480MB/s **Maximum Sequential Write** Up to 3037MB/s **Logical Blocks** 2,000,409,264

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

Features TRIM: ASPM L1.2

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

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

Drive Weight < 10a 2 TB Capacity Height 2.38mm Length 80mm Width 22mm Interface PCIE Gen3 **Maximum Sequential Read** Up to 3500MB/s **Maximum Sequential Write** Up to 3000MB/s **Logical Blocks** 3,907,029,168

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

Features TRIM; ASPM L1.2



Technical Specifications – Storage

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

Drive Weight < 10g
Capacity 256 GB
Height 2.38mm
Length 80mm
Width 22mm
Interface PCIE Gen3
Maximum Sequential Pead Up to 2700M

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

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

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

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

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

Drive Weight < 10q 512 GB Capacity Height 2.38mm Length 80mm Width 22mm **Interface** PCIE Gen3 **Maximum Sequential Read** Up to 2900MB/s **Maximum Sequential Write** Up to 1100MB/s **Logical Blocks** 1,000,215,216

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

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

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.

256GB Intel® PCIe® NVMe™ QLC + 16 GB Intel® Optane™

Drive Weight < 10a Capacity 256 GB Height 2.38mm Length 80mm Width 22mm Interface PCIe Gen3 **Maximum Sequential Read** Up to 1450MB/s **Maximum Sequential Write** Up to 500MB/s **Logical Blocks** 500,118,192

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

Features TRIM; ASPM L1.2



Technical Specifications – Storage

512GB Intel® PCIe® NVMe™ QLC + 32 GB Intel® Optane™

Drive Weight < 10q Capacity 512 GB Height 2.38mm Length 80mm Width 22mm Interface PCIe Gen3 **Maximum Sequential Read** Up to 2400MB/s **Maximum Sequential Write** Up to 1300MB/s **Logical Blocks** 1.000.215.215

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

Features TRIM; ASPM L1.2

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

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

Drive Weight < 10g Capacity 256GB Height 2.38mm Length 80mm Width 22_{mm} Interface PCIE Gen4 **Maximum Sequential Read** Up to 6400MB/s **Minimum Sequential Write** Up to 2700MB/s **Logical Blocks** 500,118,192

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

Features APST; ASPM L1.2; NVME spec 1.2

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

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

Drive Weight < 10g Capacity 512 GB Height 2.38mm Length 80mm Width 22_{mm} PCIE Gen4 Interface **Maximum Sequential Read** Up to 6600MB/s **Maximum Sequential Write** Up to 5100MB/s **Logical Blocks** 1.000.215.216

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

Features APST; ASPM L1.2; NVME spec 1.2





Technical Specifications – Storage

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

Drive Weight < 10a 1 TB Capacity Height 2.38mm Length 80mm Width 22_{mm} **Interface** PCIE Gen4 **Maximum Sequential Read** Up to 7100MB/s **Maximum Sequential Write** Up to 5200MB/s **Logical Blocks** 2,000,409,264

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

Features TRIM; ASPM L1.2

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

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

Drive Weight < 10q Capacity 2 TB 2.38mm Height Length 80mm Width 22mm Interface PCIE Gen4 **Maximum Sequential Read** Up to 7100MB/s **Maximum Sequential Write** Up to 5200MB/s **Logical Blocks** 4,000,797,360

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

Features TRIM; ASPM L1.2

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

OPTICAL DISC DRIVES

HP 9.5mm Slim DVD-ROM Drive

Height 9.5 mm height

Orientation Either horizontal or vertical

Interface type SATA/ATAPI

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

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

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

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

CD-RW Up to 24X

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



Technical Specifications – Storage

(typical reads, including

settling)

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

Power Source Slimline SATA DC power receptacle

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

Environmental conditions

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

(operating - non-condensing) Relative Humidity 10% to 80%

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

HP 9.5mm Slim DVD Writer Drive

Height 9.5 mm height

Orientation Either horizontal or vertical

Interface type SATA/ATAPI

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

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

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

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

DVD-RW, DVD+RW - Up to 8X

Read Speeds DVD-R DL, DVD+R DL - Up to 8X

DVD+R, DVD-R - Up to 8X

DVD-ROM DL, DVD-ROM - Up to 8X CD-ROM. CD-R - Up to 24X

CD-RW - Up to 24X

Access time

(typical reads, including

settling)

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

Stop Time 6 seconds (typical)

Power Source Slimline SATA DC power receptacle

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

Environmental conditions

(operating - non-condensing)

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

Relative Humidity 10% to 80%

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



Technical Specifications – Networking and Communications

NETWORKING AND COMMUNICATIONS

Intel® I219-LM 1 Gigabit	Network Connection LOM (vPro)
Connector	RJ-45
System Interface	PCI (Intel proprietary) + SMBus
Data rates supported	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40) Auto-Negotiation (Automatic Speed Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s
IEEE Compliance	IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3az EEE (Energy Efficient Ethernet)
Performance	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling (Hash Mode Only) Jumbo Frame 9K
Power consumption	Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW
Power	ACPI compliant – multiple power modes
Management	Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption
Management Interface	Auto MDI/MDIX Crossover cable detection
IT Manageability	Wake-on-LAN from modern standby or sleep state (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Virtual Cable Doctor for Ethernet cable status
Security & Manageability	Intel® vPro® support with appropriate Intel® chipset components

Connector	RJ-45
System Interface	PCI (Intel proprietary) + SMBus
Data rates supported	1. 10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)
	2. 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30)
	3. 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 802.3 clauses 40)
	4. 2.5 Gbit/s operation (2.5GBASE-T; IEEE 802.3bz Clause 126)
	5. Auto-Negotiation (Automatic Speed Selection)
	Full Duplex Operation at all Speeds, Half Duplex operation at 10, 100 & 1000 Mbit/s
IEEE Compliance	IEEE 802.1p QoS (Quality of Service) Support
-	IEEE 802.1q VLAN support
	IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)
	IEEE 802.3az EEE (Energy Efficient Ethernet)
	IEEE 802.3i 10BASE-T
	IEEE 802.3u 100BASE-TX
	IEEE 802.3ab 1000BAE-T
	IEEE 802.3bz 2.5GBASE-T



Technical Specifications – Networking and Communications

Performance	TCP/IP/UDP Checksum Offload (configurable)
	Protocol Offload (ARP & NS)
	Large send offload and Giant send offload
	Receiving Side Scaling (hash mode only)
	Jumbo Frame 9K
Power consumption	Cable Disconnetion: 25mW
	100Mbps Full Run: 450mW
	1000bp Full Run: 1000mW
	WoL Enable(S3/S4/S5): 50mW
	WoL Disable(S3/S4/S5): 25mW
Power	ACPI compliant – multiple power modes
Management	Situation-sensitive features reduce power consumption
	Advanced link down power saving for reducing link down power consumption
Management Interface	Auto MDI/MDIX Crossover cable detection
IT Manageability	Wake-on-LAN from modern standby or sleep state (Magic Packet and Microsoft Wake-Up Frame);
	Wake-on-LAN from off (Magic Packet only)
	PXE 2.1 Remote Boot
	Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30))
	Comprehensive diagnostic and configuration software suite
	Virtual Cable Doctor for Ethernet cable status
Security & Manageability	Intel® vPro® support with appropriate Intel® chipset components



Technical Specifications – Networking and Communications

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





Technical Specifications – Networking and Communications

Intel Wi-Fi 6 AX201 + BT5.1 (802.11ax 2x2, vPro, supporting gigabit data rate*) vPro

NOTE* Wi-Fi 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.

wireless router, sold separately, th	nat supports 80MHz and higher channels.
Wireless LAN Standards	IEEE 802.11a
	IEEE 802.11b
	IEEE 802.11g
	IEEE 802.11n
	IEEE 802.11ac
	IEEE 802.11ax
	IEEE 802.11d
	IEEE 802.11e
	IEEE 802.11h
	IEEE 802.11i
	IEEE 802.11k
	IEEE 802.11r
	IEEE 802.11v
Interoperability	Wi-Fi CERTIFIED™
Frequency Band	802.11b/g/n/ax
riequency band	• 2.402 – 2.482 GHz
	802.11a/n/ac/ax
	• 4.9 – 4.95 GHz (Japan)
	• 5.15 – 5.25 GHz
	• 5.25 – 5.35 GHz
	• 5.47 – 5.725 GHz
Data Datas	• 5.825 – 5.850 GHz
Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps
	• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
	• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
	• 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)
	• 802.11ac : MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz)
	• 802.11ax : MCS0 ~ MCS11, (1SS and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz)
Modulation	Direct Sequence Spread Spectrum
	OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
Security ³	• IEEE and Wi-Fi CERTIFIED™ 64/128bit 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
	WPA3 certification
	• IEEE 802.11i
	• 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 : +17dBm minimum
	• 802.11g : +16dBm minimum
	• 802.11a : +17dBm minimum
	• 802.11n HT20(2.4GHz): +14dBm minimum
	• 802.11n HT40(2.4GHz): +13dBm minimum
	• 802.11n HT20(5GHz) : +14dBm minimum
	• 802.11n HT40(5GHz) : +13dBm minimum
	• 802.11ac VHT80(5GHz): +10dBm minimum
	• 802.11ac VHT160(5GHz): +10dBm minimum
	• 802.11ax HE40(2.4GHz): +12dBm minimum





Technical Specifications – Networking and Communications

	• 802.11ax HE80(5GHz) : +10dBm minimum		
	• 802.11ax HE160(5GHz) : +10dBm minimum		
Power Consumption	• Transmit mode: 2.0 W		
	 Receive mode: 1. 		
		80 mW (WLAN Associated)	
		V (WLAN unassociated)	
	 Connected Stand 	by: 10mW	
	Radio disabled: 8 mW		
Power Management		ss compliant power management	
		power saving mode	
Receiver Sensitivity ³		-93.5dBm maximum	
		: -84dBm maximum	
	• 802.11a/g, 6Mbp	s: -86dBm maximum	
	• 802.11a/g, 54Mb	ps: -72dBm maximum	
	• 802.11n, MCS07:	-67dBm maximum	
	• 802.11n, MCS15:	-64dBm maximum	
	• 802.11ac, MCS0(\	VHT80): -84dBm maximum	
	• 802.11ac, MCS9(\	VHT80): -59dBm maximum	
	• 802.11ac, MCS9(\	VHT160): -58.5dBm maximum	
	•802.11ax, MCS11	(HE40): -57dBm maximum	
		(HE80): -54dBm maximum	
		(HE160): -53.5dBm maximum	
Antenna type	•	enna with spatial diversity, mounted in the display enclosure	
		al 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 with CNVi Interface		
Dimensions	1. Type 2230: 2.3 x 22.0 x 30.0 mm		
	2. Type 1216: 1.67		
Weight	1. Type 2230: 2.8g		
weight	2. Type 126: 1.3g		
Operating Voltage	3.3v +/- 9%		
Temperature	Operating	14° to 158° F (–10° to 70° C)	
remperature	Non-operating	-40° to 176° F (-40° to 80° C)	
Humidity	Operating	10% to 90% (non-condensing)	
numuity	Non-operating	5% to 95% (non-condensing)	
Alatanda		-	
Altitude	Operating	0 to 10,000 ft (3,048 m)	
LED A salestan	Non-operating	0 to 50,000 ft (15,240 m)	
LED Activity	LED Amber – Radio	o OFF; LED White – Radio ON	
HP Integrated Module with Blu	etooth [®] 4.0/4.1/4.2	/5.0/5.1 Wireless Technology	
Bluetooth® Specification	4.0/4.1/4.2/5.0/5.1	Compliant	
Frequency Band	2402 to 2480 MHz		
Number of Available Channels		7/CU\	
Number of Available Chaimets	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: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels. Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or		
864 kbps symmetric (3-EV5)			
Transmit Power	The Bluetooth® component shall operate as a Class II Bluetooth® device with a maximum transmit power of +9.5 dBm for BR and EDR.		
	transmit power of +	a.2 ariii tol rk gua fak.	



Technical Specifications – Networking and Communications

Power Consumption	Peak (Tx) 330 mW		
l control control control	Peak (Rx) 230 mW		
	Selective Suspend 17 mW		
Bluetooth® Software Supported	Microsoft Windows Bluetooth® Software		
Link Topology			
Power Management	Microsoft Windows ACPI, and USB Bus Support		
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249		
Power Management Certifications	ETS 300 328, ETS 300 826		
	Low Voltage Directive IEC950		
	UL, CSA, and CE Mark		
Bluetooth Profiles Supported	BT4.1-ESR 5/6/7 Compliance		
	LE Link Layer Ping		
	LE Dual Mode		
	LE Link Layer		
	LE Low Duty Cycle Directed Advertising		
	LE L2CAP Connection Oriented Channels		
	Train Nudging & Interlaced Scan		
	BT4.2 ESR08 Compliance		
	LE Secure Connection- Basic/Full		
	LE Privacy 1.2 –Link Layer Privacy		
	LE Privacy 1.2 –Extended Scanner Filter Policies		
	LE Data Packet Length Extension		
	FAX Profile (FAX)		
	Basic Imaging Profile (BIP)2		
	Headset Profile (HSP)		
	Hands Free Profile (HFP)		
	Advanced Audio Distribution Profile (A2DP)		
	BT5.1		
	ESR9/10 Compliance		
	LE Advertisement Extensions		
	Channel Selection Algo		
	Limited High Duty Cycle Non-Connectable Advertising		
	2Mbps LE		
	LE Long Range		
Security & Manageability	Intel® vPro® support with appropriate Intel® chipset components		
Security & manageability	Inter ALIA Sabbat Mith abbiobliate inter- cuibset combanents		

Intel Wi-Fi 6 AX201 + BT5.1 (802.11ax 2x2, non-vPro, supporting gigabit data rate*) non-vPro

NOTE* Wi-Fi 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.

Wireless LAN Standards	IEEE 802.11a
	IEEE 802.11b
	IEEE 802.11g
	IEEE 802.11n
	IEEE 802.11ac
	IEEE 802.11ax
	IEEE 802.11d
	IEEE 802.11e
	IEEE 802.11h
	IEEE 802.11i
	IEEE 802.11k
	IEEE 802.11r



Technical Specifications – Networking and Communications

	IEEE 802.11v
Interoperability	Wi-Fi CERTIFIED™
Frequency Band	802.11b/g/n/ax
	• 2.402 – 2.482 GHz
	802.11a/n/ac/ax
	• 4.9 – 4.95 GHz (Japan)
	• 5.15 – 5.25 GHz
	• 5.25 – 5.35 GHz
	• 5.47 – 5.725 GHz
	• 5.825 – 5.850 GHz
Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps
	• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
	• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
	• 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)
	• 802.11ac : MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz)
	• 802.11ax: MCS0 ~ MCS11, (1SS and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz)
Modulation	Direct Sequence Spread Spectrum
	OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
Security ³	• IEEE 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
	• 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: +17dBm minimum
	• 802.11g: +16dBm minimum
	• 802.11a: +17dBm minimum
	• 802.11n HT20(2.4GHz): +14dBm minimum
	• 802.11n HT40(2.4GHz): +13dBm minimum
	• 802.11n HT20(5GHz): +14dBm minimum
	• 802.11n HT40(5GHz): +13dBm minimum
	• 802.11ac VHT80(5GHz): +10dBm minimum
	• 802.11ac VHT160(5GHz): +10dBm minimum
	• 802.11ax HE40(2.4GHz): +12dBm minimum
	• 802.11ax HE80(5GHz): +10dBm minimum
	• 802.11ax HE160(5GHz): +10dBm minimum
Power Consumption	• Transmit mode 2.0 W
	• Receive mode 1.6 W
	• Idle mode (PSP) 180 mW (WLAN Associated)
	• Idle mode 50 mW (WLAN unassociated)
	Connected Standby:10mW Padia disabled 8 mW
Dawey Manager and	Radio disabled 8 mW ACRI and BCI Europea compliant across separate and across separate across separate across separate and across separate across separa
Power Management	ACPI and PCI Express compliant power management
Dogalizar Camalalizia 3	802.11 compliant power saving mode
Receiver Sensitivity ³	•802.11b, 1Mbps: -93.5dBm maximum
	•802.11b, 11Mbps: -84dBm maximum
	• 802.11a/g, 6Mbps: -86dBm maximum
	• 802.11a/g, 54Mbps: -72dBm maximum
	• 802.11n, MCS07: -67dBm maximum
	• 802.11n, MCS15: -64dBm maximum
	• 802.11ac, MCS0(VHT80): -84dBm maximum



Technical Specifications – Networking and Communications

		(VHT80): -59dBm maximum			
		(VHT160): -58.5dBm maximum			
		(HE40): -57dBm maximum			
	•802.11ax, MCS11(HE80): -54dBm maximum				
	•802.11ax, MCS11(HE160): -53.5dBm maximum				
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure				
		al band 2.4/5 GHz antennas are provided to the card to support WLAN			
		tions and Bluetooth communications			
Form Factor		liniCard with CNVi Interface			
Dimensions	1. Type 2230: 2.3 x 22.0 x 30.0 mm				
	2. Type 1216: 1.67 x 12.0 x 16.0 mm				
Weight	1. Type 2230: 2.8g]			
	2. Type 126: 1.3g				
Operating Voltage	3.3v +/- 9%				
Temperature	Operating	14° to 158° F (–10° to 70° C)			
	Non-operating	-40° to 176° F (-40° to 80° C)			
Humidity	Operating	10% to 90% (non-condensing)			
	Non-operating	5% to 95% (non-condensing)			
Altitude	Operating	0 to 10,000 ft (3,048 m)			
	Non-operating	0 to 50,000 ft (15,240 m)			
LED Activity	LED Amber – Radi	o OFF; LED Off – Radio ON			
HP Integrated Module with Bluet	ooth® 4.0/4.1/4.2/	5.0/5.1 Wireless Technology			
Bluetooth® Specification	4.0/4.1/4.2/5.0/5.1	1 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		ta rate; throughput up to 2.17 Mbps			
	BLE: 1 Mbps data rate; throughput up to 0.2 Mbps				
	Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels. Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)				
Transmit Power	The Bluetooth® component shall operate as a Class II Bluetooth® device with a maximum transmit power of +9.5 dBm for BR and EDR.				
Power Consumption	Peak (Tx) 330 mW				
<u> </u>	Peak (Rx) 230 mW				
	Selective Suspend 17 mW				
Bluetooth® Software Supported		Bluetooth® Software			
Link Topology					
Power Management	Microsoft Windows	ACPI, and USB Bus Support			
· ·					
Certifications	FCC (47 CFR) Part 1	5C, Section 15.247 & 15.249			
Power Management Certifications	ETS 300 328, ETS 300 826				
	Low Voltage Directive IEC950				
	UL, CSA, and CE Ma	rk			
Bluetooth Profiles Supported	BT4.1-ESR 5/6/7 Compliance				
<u> </u>	LE Link Layer Ping				
	LE Dual Mode				
	LE Link Layer				
	LE Low Duty Cycle Directed Advertising				
	LE L2CAP Connection Oriented Channels				
	Train Nudging & Interlaced Scan				





Technical Specifications – Networking and Communications

DT4.2 FCD00 Compliance
BT4.2 ESR08 Compliance
LE Secure Connection- Basic/Full
LE Privacy 1.2 –Link Layer Privacy
LE Privacy 1.2 –Extended Scanner Filter Policies
LE Data Packet Length Extension
FAX Profile (FAX)
Basic Imaging Profile (BIP)2
Headset Profile (HSP)
Hands Free Profile (HFP)
Advanced Audio Distribution Profile (A2DP)
BT5.1
ESR9/10 Compliance
LE Advertisement Extensions
Channel Selection Algo
Limited High Duty Cycle Non-Connectable Advertising
2Mbps LE
LE Long Range

Realtek RTL8852AE 802.11ax 2x2 Wi-Fi + BT5.2 (802.11ax 2x2, supporting gigabit data rate*)

NOTE* Wi-Fi 5 or 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.

Wireless LAN Standards	IEEE 802.11a	
	IEEE 802.11b	
	IEEE 802.11g	
	IEEE 802.11n	
	IEEE 802.11ac	
	IEEE 802.11ax	
	IEEE 802.11d	
	IEEE 802.11e	
	IEEE 802.11h	
	IEEE 802.11i	
	IEEE 802.11k	
	IEEE 802.11r	
	IEEE 802.11v	
Interoperability	Wi-Fi CERTIFIED™ modules	
Frequency Band	802.11b/g/n/ax	
	• 2.402 – 2.482 GHz	
	802.11a/n/ac/ax	
	• 4.9 – 4.95 GHz (Japan)	
	• 5.15 – 5.25 GHz	
	• 5.25 – 5.35 GHz	
	• 5.47 – 5.725 GHz	
	• 5.825 – 5.850 GHz	
Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps	
	• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	• 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)	
	 802.11ac: MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz & 80MHz) 802.11ax: MCS0 ~ MCS11, (1SS and 2SS) (20MHz, 40MHz, ,80MHz) 	
Modulation	Direct Sequence Spread Spectrum	
Modulation	BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM	
Security ³	• IEEE and Wi-Fi CERTIFIED™ 64 / 128 bit WEP encryption for a/b/g mode only	
Jecurity ²	AES-CCMP: 128 bit in hardware	
	802.1x authentication	
	OOL 17 dutilentication	





Technical Specifications – Networking and Communications

	• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.		
	WPA2 certification		
	WPA3 certification		
	• IEEE 802.11i		
	• WAPI		
Network Architecture	Ad-hoc (Peer to Peer)		
Models	Infrastructure (Access Point Required)		
Roaming	IEEE 802.11 compliant roaming between access points		
Output Power ²	• 802.11b : +18.5dBm minimum		
•	• 802.11g: +17.5dBm minimum		
	• 802.11a : +18.5dBm minimum		
	• 802.11n HT20(2.4GHz) : +15.5dBm minimum		
	• 802.11n HT40(2.4GHz): +14.5dBm minimum		
	• 802.11n HT20(5GHz): +15.5dBm minimum		
	• 802.11n HT40(5GHz): +14.5dBm minimum		
	• 802.11ac VHT80(5GHz) : +11.5dBm minimum		
	• 802.11ax HE40(2.4GHz) : +10dBm minimum		
	• 802.11ax HE80(5GHz) : +10dBm minimum		
Power Consumption	• Transmit mode:2.5 W		
· core consumption	• Receive mode:2 W		
	• Idle mode (PSP) 180 mW (WLAN Associated)		
	• Idle mode :50 mW (WLAN Associated)		
	Connected Standby/Modern Standby: 10mW		
	• Radio disabled: 8 mW		
Power Management	ACPI and PCI Express compliant power management		
. ower management	802.11 compliant power saving mode		
Receiver Sensitivity ³	• 802.11b, 1Mbps: -93.5dBm maximum		
neceiver sensitivity	• 802.11b, 11Mbps: -84dBm maximum		
	·		
	• 802.11a/g, 6Mbps: -86dBm maximum		
	• 802.11a/g, 54Mbps: -72dBm maximum		
	• 802.11n, MCS07: -67dBm maximum		
	• 802.11n, MCS15: -64dBm maximum		
	• 802.11ac, MCS0: -84dBm maximum		
	• 802.11ac, MCS9: -59dBm maximum		
	• 802.11ax, MCS11(HE40): -57dBm maximum		
	• 802.11ax, MCS11(HE80): -54dBm 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	1. Type 2230: 2.3 x 22.0 x 30.0 mm		
	2. Type 1216: 1.67 x 12.0 x 16.0 mm		
Weight	1. Type 2230: 2.8g		
	2. Type 126: 1.3g		
Operating Voltage	3.3v +/- 9%		
Temperature	Operating 14° to 158° F (–10° to 70° C)		
-	Non-operating —40° to 176° F (—40° to 80° C)		
Humidity	Operating 10% to 90% (non-condensing)		
	Non-operating 5% to 95% (non-condensing)		
Altitude	Operating 0 to 10,000 ft (3,048 m)		
	Non-operating 0 to 50,000 ft (15,240 m)		
LED Activity	LED Amber – Radio OFF; LED OFF – Radio ON		



Technical Specifications – Networking and Communications

4.0/4.1/4.2/5.0/5.1/5.2 Compliant
2402 to 2480 MHz
Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)
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)
The Bluetooth® component shall operate as a Class II Bluetooth® device with a maximum
transmit power of +4 dBm for BR and EDR.
Peak (Tx) 330 mW
Peak (Rx) 230 mW
Selective Suspend 17 mW
Microsoft Windows Bluetooth® Software
Microsoft Windows ACPI, and USB Bus Support
FCC (47 CFR) Part 15C, Section 15.247 & 15.249
ETS 300 328, ETS 300 826
Low Voltage Directive IEC950
UL, CSA, and CE Mark
BT4.1-ESR 5/6/7 Compliance
LE Link Layer Ping
LE Dual Mode
LE Link Layer
LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels
Train Nudging & Interlaced Scan
BT4.2 ESR08 Compliance
LE Secure Connection- Basic/Full
LE Privacy 1.2 –Link Layer Privacy
LE Privacy 1.2 –Extended Scanner Filter Policies
LE Data Packet Length Extension
FAX Profile (FAX)
Basic Imaging Profile (BIP)2
Headset Profile (HSP)
Hands Free Profile (HFP)
Advanced Audio Distribution Profile (A2DP)
BT5.1
ESR9/10 Compliance LE Advertisement Extensions
Channel Selection Algo
Limited High Duty Cycle Non-Connectable Advertising
2Mbps LE
LE Long Range



Technical Specifications – Input/Output Devices

I/O DEVICES

HP Wired Desktop 320K K	eyboard		
Physical Characteristics	Keys	104, 105, 107, 109 layout (depending on country)	
	Dimensions (L x W x H)	16.77 x 4.36 x 0.65 in (426.2 x 110.9 x 16.7 mm)	
	Weight	14.57 oz (413g)	
	Cable length	6 ft. (1.8 m)	
Electrical	Operating voltage	5V	
	Power consumption	50mA - 100 mA	
	System interface	USB	
Mechanical	Keycaps	Low-profile design	
	Switch actuation	60±10g nominal peak force with tactile feedback	
	Switch life	10 million keystrokes (Life tester)	
	Switch type	Plunger	
Environmental			
	Operating temperature	50° to 122° F (10° to 50° C)	
	Non-operating temperature	-22° to 149° F (-30° to 65° C)	
	Operating humidity	10% to 90% (non-condensing at ambient)	
	Non-operating humidity	0% to 90% (non-condensing at ambient)	
Approvals	FCC, ICES, CULus, CE, GS, EAC, Ukraine, India BIS, KCC, RCM, BSMI, VCCI		
Ergonomic compliance	TUVGS		
Kit contents	Keyboard, QSP, Warranty Card, Product Notice		

HP USB Premium Keyboard				
	Keys	104, 105 layout (depending upon country)		
Physical Characteristics	Dimensions (L x W x H)	17.04 x 5.55 x 0.52 in (433 x 141 x13.2 mm)		
	Weight	1.54 lb. (698g)		
	Operating voltage	5 VDC, +/-5%		
	Power consumption	35mA (All LED on)		
Electrical	System interface	USB Type A plug connector		
Electricat	ESD	Contact Discharge: 8 KV Air Discharge: 15 KV		
	EMI - RFI	Conforms to FCC rules for a Class B computing device		
	Microsoft® PC 99 - 2001	Functionally compliant		
Mechanical	Keycaps	Low-profile design		
	Switch actuation	60±10g nominal peak force with tactile feedback		



Technical Specifications – Input/Output Devices

Switch life 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)			
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			
Cable length 6 ft. (1.8 m) Microsoft PC 99 - 2001 Mechanically compliant Acoustics 43-dBA maximum sound pressure level	S		
Microsoft PC 99 - 2001 Mechanically compliant Acoustics 43-dBA maximum sound pressure level			
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)			
Environmental Operating shock 40 g, six surfaces			
Non-operating shock 80 g, six surfaces			
Operating vibration 2-g peak acceleration			
Non-operating vibration 4-g peak acceleration			
Drop (out of box) 26 in (66 cm) on carpet, six-drop sequence			
Drop (in box) 30 in (76.2 cm) on concrete, 16-drop sequen	nce		
Approvals UL, FCC, CE Mark, TUV GS, VCCI, BSMI, RCM, KCC			
Ergonomic compliance TUVGS	TUVGS		
Kit contents Keyboard, QSP	Keyboard, QSP		
Warranty Card Product Notice	Product Notice		

HP Wired Desktop 320M	Mouse				
Dimensions (H x L x W)	4.08 x 2.49 x 1.39 in (103.8	x 63.4 x 35.5 mm)			
Weight	2.67 oz (75.8 g)				
Mechanical	Connector	Connector USB			
	Resolution	1000 DPI			
	Sensor	Optical Red Sensor			
Tracking speed	Tracking acceleration 8G(max), 1G=9.8m/s2				
	Cable length	6 ft. (1.8 m)			
	Color Jack Black				
Regulatory approvals	Compliant FCC, ICES, CULus, CE, GS, EAC, Ukraine. India BIS, KCC, RCM, BSM VCCI				

Technical Specifications – Input/Output Devices

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

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



Technical Specifications – Audio/Multimedia

AUDIO/MULTIMEDIA

HP EliteDesk 800 G8 Tower PC

Type Integrated

HD Stereo Codec Realtek ALC3205

Audio I/O Ports Front: Headset connector supports a CTIA and OMTP style headset and is re-taskable as a Line-in,

Line-out, Microphone-in or Headphone-out port

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

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 192 kHz for ADC

Wavetable Syntheses Yes - Uses OS soft wavetable

Analog Audio Yes

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

HP EliteDesk 800 G8 Small Form Factor PC

Type Integrated
HD Stereo Codec Realtek ALC3205

Audio I/O Ports Front: Headset connector supports a CTIA and OMTP style headset and is re-taskable as a Line-in,

Line-out, Microphone-in or Headphone-out port

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

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 Speaker Yes

HP EliteDesk 800 G8 Desktop Mini PC

Type Integrated
HD Stereo Codec Realtek ALC3205

Audio I/O Ports combo audio jack with CTIA and OMTP headset support

Internal Speaker Amplifier 2W class D mono amplifier for the internal speaker only. External speakers must be powered 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 192 kHz for ADC

Wavetable Syntheses Yes - Uses OS soft wavetable

Analog Audio Yes

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

Internal Speaker Yes

Technical Specifications – Audio/Multimedia

HP EliteOne 800 G8 24 & 27 All-in-One

Bang & Olufsen Audio

Type Integrated

HD Stereo Codec Realtek ALC3274

Audio I/O Ports Side headset connector supports a CTIA/OMTP 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

Internal Speaker Amplifier 5W per channel class D stereo amplifier for the internal speakers only

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 speakers.

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 192 kHz for ADC

Wavetable Syntheses Yes - Uses OS soft wavetable

Analog Audio Yes

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

Internal Speaker Yes - Stereo

Technical Specifications – Integrated Webcam and Microphone

INTEGRATED WEBCAM AND MICROPHONE

Integrated Webcam and Microphone

Optional integrated 5 MP Full HD RGB webcam & microphone; maximum resolution of 2592 x 1944 Optional integrated 5 MP Full HD RGB dual-facing webcam with IR sensor (user-facing) & microphone; maximum resolution of 2592×1944

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

INTEGRATED FINGERPRINT SENSOR

Sensor type: Touch

Fingerprint matching: Performed on device

Anti-Spoofing: Yes

Windows Hello Support: Yes Encryption: On sensor FIPS Compliant: No





Technical Specifications – Power

POWER

HP EliteDesk 800 G8 Tower PC

Unit Environment and Operating Conditions

Temperature Range Operating: 5°C ~35°C

Non-Operating: -40°C ~66°C

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

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

Maximum Altitude Operating: 5000m

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

HP EliteDesk 800 G8 SFF PC

Unit Environment and Operating Conditions

Temperature Range Operating: 5°C ~35°C

Non-Operating: -40°C ~66°C

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

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

Maximum Altitude Operating: 5000m

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

HP EliteDesk 800 G8 Desktop Mini PC (35W)

Unit Environment and Operating Conditions

Temperature Range Operating: 5°C ~35°C

Non-Operating: -40°C ~66°C

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

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

Maximum Altitude Operating: 5000m

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

HP EliteDesk 800 G8 Desktop Mini (65W)

Unit Environment and Operating Conditions

Temperature Range Operating: 5°C ~35°C

Non-Operating: -40°C ~66°C

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

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

Maximum Altitude Operating: 5000m

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



Technical Specifications – Power

HP EliteOne 800 G8 24 & 27 All-in-One

Unit Environment and Operating Conditions

Temperature Range Operating: 5°C ~45°C

Non-Operating: -40°C ~66°C

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

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

Maximum Altitude Operating: 5000m

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

	DM	SFF	TWR	AiO
External Power Supplies	90W EPS, active PFC, 88% average efficiency at 115V & 89% at 230Vac 120W EPS, active PFC, 88% average efficiency at 115V & 89% at 230Vac 180W EPS, active PFC, 88% average efficiency at 115V & 89% at 230Vac	N/A	N/A	N/A
80 PLUS Gold	N/A	N/A	N/A	N/A
80 PLUS Platinum		260W active PFC / 80 PLUS Platinum 90/92/89% efficient at 20/50/100% load (115V) 91/93/90% efficient at 20/50/100% load (230V)	550W active PFC / 80 PLUS Platinum 260W active PFC / 80 PLUS Platinum 90/92/89% efficient at 20/50/100% load (115V) 91/93/90% efficient at 20/50/100% load (230V)	210W active PFC / 80 PLUS Platinum 90/92/89% efficient at 20/50/100% load (115V) 91/93/90% efficient at 20/50/100% load (230V)
Operating Voltage Range	90Vac~264Vac	90Vac~264Vac	90Vac~264Vac	90Vac~264Vac
Rated Voltage Range	100Vac~240Vac	100Vac~240Vac	100Vac~240Vac	100Vac~240Vac
Rated Line Frequency	50HZ~60HZ	50HZ~60HZ	50HZ~60HZ	50HZ~60HZ
Operating Line Frequency	47HZ~63HZ	47HZ~63HZ	47HZ~63HZ	47HZ~63HZ
Rated Input Current				
Rated Input Current with Energy Efficient* Power Supply	90W≦1.7A 120W≦1.7A 180W≦2.5A	260W Platinum≦3.1A 350W Platinum≦4A	260W Platinum≤3.1A 350W Platinum≤4A 550W Platinum≤6.6A	210W ≦2.8A
DC Output	+19.5V	+12V	+12V	+20V



Technical Specifications – Power

	DM	SFF	TWR	AiO
Current Leakage (NFPA 99: 2012)	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 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	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 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	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 100 microamps of leakage current at 120 Vac with the ground wire intact with normal polarity, as required for Non-patient Electrical Appliances	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 100 microamps of leakage current at 120 Vac with the ground wire intact with normal polarity, as required for Non-
Power Supply Fan	N/A	70mm variable speed	70mm variable speed	N/A
Power cord length	6.0 ft. (1.83 m)	6.0 ft. (1.83 m)	6.0 ft. (1.83 m)	6.0 ft. (1.83 m)
External Power Adapter	External power	Internal power	Internal power supply	Internal power supply
Dimensions	90W: 127mm x 51mm x 30mm 120W: 138mm x 68.5mm x 25.4mm 180W: 165.5mm x 79mm x 25.4mm	165mm x 95mm x 73mm	165mm x 95mm x 73mm	110x110x26mm
Total Cord Length	6.0 ft. (1.83 m)	6.0 ft. (1.83 m)	6.0 ft. (1.83 m)	6.0 ft. (1.83 m)

Technical Specifications – Power

The power supply shall comply with harmonic input current requirements as detailed in EN61000-3-2 and JEIDA MITI standards. 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%	86%	115Vac/60HZ
20% of Rated Load	-	82%	85%	87%	90%	115Vac/60HZ
50% of Rated	-	85%	88%	90%	92%	115Vac/60HZ
Load	PF>0.9	PF>0.9	PF>0.9	PF>0.9	PF>0.95	
100% of Rated	70%	82%	85%	87%	89%	115Vac/60HZ
Load	PF>0.9	PF>0.9	PF>0.9	PF>0.9	PF>0.9	230Vac/50HZ





Technical Specifications – Weights and Dimensions

WEIGHTS & DIMENSIONS

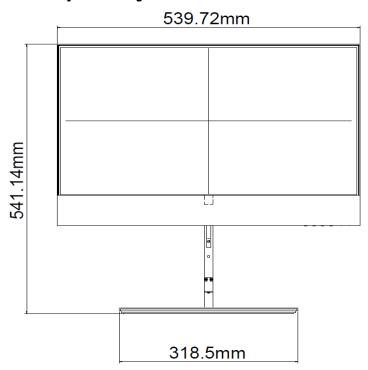
	DM	SFF	TWR	AiO
Chassis (W x D x H)	6.97 x 6.89 x 1.35 in 177 x 175 x 34 mm	13.3 x 12.13 x 3.94 in 338 x 308 x 100 mm	6.61 x 12.13 x 14.57 in 168 x 308 x 370 mm	See table below.
System Volume	63.4 cu in 1.05L	63.4 cu in 10.4 L	1168 cu in 19.14 L	See table below.
System Weight	3.13 lb 1.42 kg	13.5 lb 6.13 kg	13.11 lb 5.95 kg	See table below.
Max Supported Weight (desktop orientation)	: 0	77 lb 35 kg	77 lb 35 kg	See table below.
Stand Dimensions	160 x 117 x 18.5 mm	151.8 x 200 x 37.2mm	N/A	See table below.
Packaging (W x D x H)	19.6 x 5.2 x 9.3 in 498 x132 x 235 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	See table below.
Shipping Weight	2.95 kg 6.49 lb	9 kg 19.82 lb	11.34 kg 24.98 lb	See table below.
Multipack Packaging (10 units)	20.28 x16.54 x 25 in 515 x 420 x 636 mm			
Palletization Profile	10-units per layer 10 layers max 100 units per pallet 46.3 x 39.2 x 57.7 in, 1175 x 996 x 2125 mm (include pallet)	6 units per layer 10 layers max 60 units per pallet 1200 x 1000 x 2438 mm (include the pallet)	8 units per layer 4 layers ax 32 units per pallet 1200 x 1000 x 2203 mm (include the pallet)	10-units per layer 4-layers max 40-units per pallet (sea) 1200 x 1000 x 2470 mm

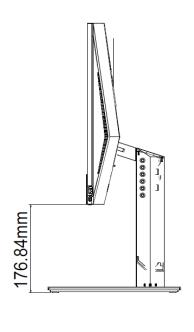


Technical Specifications – Weights and Dimensions

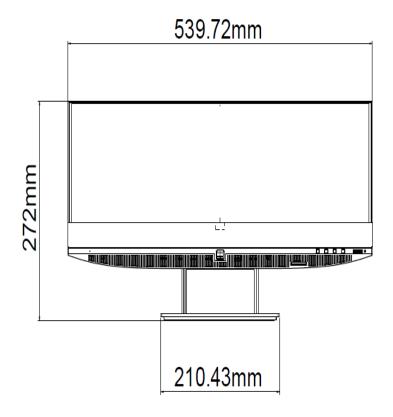
STANDS AND DIMENSIONS

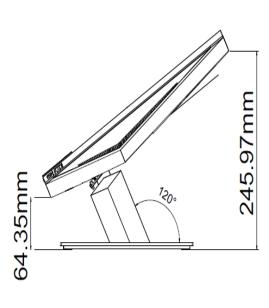
HP EliteOne G6 AIO Adjustable Height Stand - 23.8"





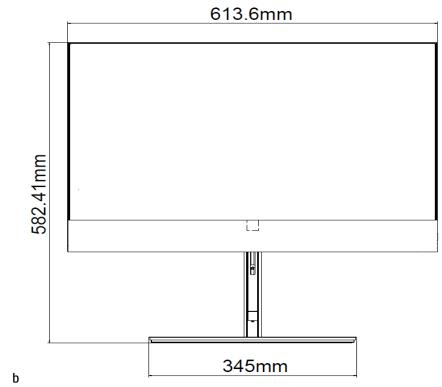
HP EliteOne G6 AIO Recline Stand - 23.8"

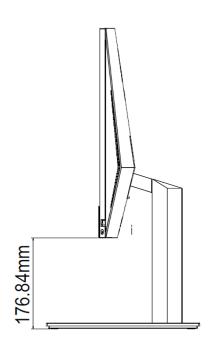




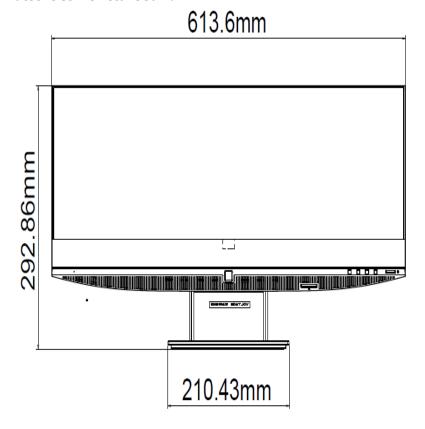
Technical Specifications – Weights and Dimensions

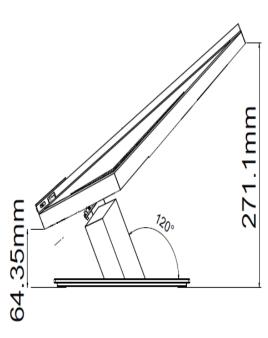
HP EliteOne G6 AIO Adjustable Height Stand - 27"





HP EliteOne G6 AIO Recline Stand - 27"





Technical Specifications – Weights and Dimensions

Adjustable Height Stand:	Height - Vertical/Landscape Adjustment	130mm (±2 mm)	
	Portrait Adjustment	No portrait	
	Tilt Angle	-5° to +18° (±2°) in landscape and portrait	
	Rotation (Swivel)	90° (±1°) (45 left, 45 right)	
	Pivot	No pivot	

Recline Stand:	Height - Vertical Adjustment	No height
	Tilt Angle	+36.5° to +58° (+/-1.5°)
	Rotation (swivel)	No swivel





Technical Specifications – Weights and Dimensions

ALL-IN-ONE WEIGHTS AND DIMENSIONS

Weight without Touch Panel - 23.8"

Product Weight Unboxed	15.12 lbs. 6.86 kg	Stand	Recline Stand 18.83 lbs. 8.54 Kg
Shipping Weight Boxed	19.51 lbs.	Stand	Recline Stand 23.08 lbs. 10.47 kg
Shipping Weight Pallet (30 units)	623.7 lbs.	Stand	Recline Stand 730.62 lbs. 332.1 kg

Weight with Touch Panel - 23.8"

Product Weight Unboxed	Without Stand 17.50 lbs. 7.94 kg	Adjustable Height Stand 22.84 lbs. 10.36 kg	Recline Stand 21.21 lbs. 9.62 Kg
Shipping Weight Boxed	Without Stand 21.89 lbs. 9.93 kg	Adjustable Height Stand 27.23 lbs. 12.35kg	Recline Stand 25.46 lbs. 11.55 kg
Shipping Weight Pallet (30 units)	Without Stand 694.98 lbs. 315.9 kg	Adjustable Height Stand 854.7lbs. 388.5kg	Recline Stand 801.9lbs. 364.5 kg

Dimensions (W \times D \times H) – 23.8"

539.72 x 364.3 x 57.3 mm	Stand (-5 ~ 20) degrees	Recline Stand Stand (30 ~ 60) degrees 539.72 x 379.44 x 209.35 mm
539.72 x 364.3 x 59.3 mm	Stand (-5 ~ 20) degrees	Recline Stand Stand (30 ~ 60) degrees 539.72 x 379.44 x 211.35 mm

Shipping Dimensions - 23.8"

- 11 3	11		Recline Stand 628 x 186 x 635 mm
Shipping	Without Stand	Adjustable Height	Recline Stand
Dimensions	1180 x 874 x 2060 mm	1180 x 874 x 2060 mm	1180 x 874 x 2060 mm
Pallet			
Pallet (40 units)			



Technical Specifications – Weights and Dimensions

Weight without Touch Panel - 27"

Product Weight Unboxed	Without Stand 17.79 lbs. 8.07 kg	Adjustable Height Stand 23.63 lbs. 10.72 kg	Recline Stand 21.50 lbs. 9.75 Kg
Shipping Weight Boxed	Without Stand 23.70 lbs. 10.75 kg	Adjustable Height Stand 29.54 lbs. 13.4 kg	Recline Stand 27.40 lbs. 12.43 kg
Shipping Weight Pallet (18 units)	Without Stand 465.3 lbs. 211.5 kg	Adjustable Height Stand 570.24 lbs. 259.2 kg	Recline Stand 531.83 lbs. 241.74 kg

Shipping Dimensions – 27"

- '''	742 x 237 x 640 mm	-,	Recline Stand 742 x 237 x 640 mm
- 11 3		,	Recline Stand 1180 x 958 x 2076 mm



Technical Specifications – Miscellaneous Features

MISCELLANEOUS FEATURES

Management Features

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

Serviceability Features

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



Technical Specifications – Miscellaneous Features

Additional Features	Description
Tower Orientation	Product can be oriented as either a desktop (horizontal) or a tower (vertical) for MT, SFF, and DM only. SFF/DM requires optional stand.
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 (for SATA hard drive only)
	A diagnostic hard drive self- test. It scans critical physical components and every sector of the hard drive for physical faults and then reports any faults to the user
	Running independently of the operating system, it can be accessed through a Windows-based diagnostics utility or through the computer's setup procedure. It produces an evaluation on whether the hard drive is the source of the problem and needs to be replaced
	The system expands on the Self-Monitoring, Analysis, and Reporting Technology (SMART), a continuously running systems diagnostic that alerts the user to certain types of failures
SMART Technology (Self-Monitoring, Analysis and Reporting Technology)	Allows hard drives to monitor their own health and to raise flags if imminent failures were predicted
SMART I - Drive Failure Prediction	Predicts failures before they occur. Tracks fault prediction and failure indication parameters such as re-allocated sector count, spin retry count, calibration retry count
SMART II - Off-Line Data Collection	By avoiding actual hard drive failures, SMART hard drives act as "insurance" against unplanned user downtime and potential data loss from hard drive failure
SMART III - Off-Line Read Scanning with Defect Reallocation	IOEDC: I/O Error Detection Circuitry
SMART IV - End-to-End CRC for hard drives	Detects errors in Read/Write buffers on HDD cache RAM

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Technical Specifications – After Market Options

AFTER MARKET OPTIONS

Graphics Solutions	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	Part Number
AMD® Radeon™ RX 550X 4GB Display Port Card		X			5LH79AA
AMD® Radeon™ R7 430 2GB 2 Display Port Card		X	X		5JW82AA
AMD® Radeon™ R7 430 2GB DP+VGA Card		Х	Х		5JW81AA

Desktop Mini Accessories	<u>DM</u>	<u>SFF</u>	<u>MT</u>	<u>AiO</u>	Part Number
HP Desktop Mini Port Cover v3	<u>X</u> (95W and discrete GPU skus not supported)				13L69AA
HP Desktop Mini 2.5" SATA Drive Bay kit v2	<u>X</u> (95W and discrete GPU skus not supported)				13L70AA
HP Desktop Mini 90W Power Supply Kit	<u>X</u>				L4R65AA
HP Desktop Mini Lock Box V2	<u>X</u> (95W and discrete GPU skus not supported)				3EJ57AA
HP Desktop Mini DVD-Writer ODD Expansion Module	X (Either one)				K9Q83AA
HP Desktop Mini Security/Dual VESA Sleeve v3	<u>X</u> (95W and discrete GPU skus not supported)				13L67AA
HP Desktop Mini Security/Dual VESA Sleeve v3 with Power Supply Holder	<u>X</u> (95W and discrete GPU skus not supported)				13L68AA
HP B250 PC Mounting Bracket	<u>X</u>				<u>8RA46AA</u>
HP B300 PC Mounting Bracket	<u>X</u>				2DW53AA
HP B300 PC Mounting Bracket with Power Supply Holder	X (95W and discrete GPU skus not supported)				<u>7DB37AA</u>
HP B500 PC Mounting Bracket	<u>X</u>				<u>2DW52AA</u>
HP Desktop Mini Vertical Chassis Stand	<u>X</u>				<u>G1K23AA</u>
HP DM Power Supply Holder Kit v2	(95W and discrete GPU skus not supported)				7DB38AA
HP Quick Release Bracket 2	<u>X</u>			<u>X</u>	<u>6KD15AA</u>
HP Single Monitor Arm	<u>X</u>			<u>X</u>	<u>BT861AA</u>

Data Storage Drives	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	Part Number
HP PCIe NVME TLC M.2 256GB SSD	X	Х	X	X	1CA51AA
HP PCIe NVME TLC M.2 512GB SSD	X	Х	X	X	X8U75AA
HP PCIe Gen 4 NVME TLC M.2 512GB SSD	X	Х	X		406L8AA
HP PCIe Gen 4 NVME TLC M.2 1TB SSD	X	Х	X		406L7AA
HP 500GB 7200PRM SATA 3.5" Hard Drive		х	х		QK554AA



Technical Specifications – After Market Options

HP 1TB 7200rpm SATA 3.5" Hard Drive	X	X	QK555AA
HP SFF SATA DVD-Writer ODD	Х		52D76AA
HP TWR SATA DVD-Writer ODD		X	52D77AA

Input Devices	<u>DM</u>	<u>SFF</u>	TWR	<u>AiO</u>	<u>Part</u> <u>Number</u>
HP Desktop Wired 320K Keyboard	Х	Х	Х	Х	9SR37AA
HP 125 Wired Keyboard	Х	Х	Х	X	266C9AA
HP 225 Antimicrobial Wired Mouse and Keyboard Combo	Х	X	X	X	286K3AA
HP 225 Wired Mouse and Keyboard Combo	Х	Х	Х	X	286J4AA
HP 125 Wired Mouse	Х	X	X	X	265A9AA
HP 128 Laser Wired Mouse	X	Х	Х	X	265D9AA
HP Wired Desktop 320K Keyboard	Х	Х	Х	X	9SR37AA
HP Wired Desktop 320M Mouse	X	Х	Х	X	9VA80AA
HP Wired Desktop 320MK Mouse and Keyboard	Х	Х	Х	X	9SR36AA
HP USB Business Slim CCID SmartCard Keyboard	X	Х	Х	X	Z9H48AA
HP USB Keyboard and Mouse Healthcare Edition	Х	Х	Х	X	1VD81AA
HP USB Premium Keyboard	Х	Х	Х	X	Z9N40AA
HP USB PS/2 Washable Keyboard & Mouse	X	Х	Х	X	BU207AA
HP Wireless Business Slim Keyboard and Mouse	Х	Х	Х	X	T6L04AA
HP Wireless Premium Keyboard	Х	Х	Х	X	Z9N41AA
HP PS/2 Business Slim Keyboard		Х	Х		N3R86AA
HP USB Fingerprint Mouse	Х	Х	Х	Х	4TS44AA
HP USB Premium Mouse	Х	Х	Х	Х	1JR32AA
HP PS/2 Mouse		Х	Х		QY775AA
HP Wireless Premium Mouse	Х	Х	Х	Х	1JR31AA

1. Not available in all regions

System Memory	<u>DM</u>	<u>SFF</u>	TWR	<u>AiO</u>	<u>Part</u> Number
HP 4GB DDR4-3200 UDIMM		Х	Х		13L78AA
HP 8GB DDR4-3200 UDIMM		X	Х		13L76AA
HP 16GB DDR4-3200 UDIMM		Х	Х		13L74AA
HP 32GB DDR4-3200 UDIMM		X	Х		13L72AA
HP 4GB DDR4-3200 SODIMM	X			X	13L79AA
HP 8GB DDR4-3200 SODIMM	X			X	13L77AA
HP 16GB DDR4-3200 SODIMM	X			X	13L75AA
HP 32GB DDR4-3200 SODIMM	X			X	13L73AA



Technical Specifications – After Market Options

Multimedia Devices	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	<u>Part Number</u>
HP Business Headset v2	Х	Х	X	Х	T4E61AA
HP S101 Speaker Bar	Х	Х	Х		5UU40AA

Security Devices	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	<u>Part Number</u>
HP Business PC Security Lock v3 Kit		Х	Х	Х	3XJ17AA
HP Dual Head Keyed Cable Lock		Х	Х	Х	T1A64AA
HP Keyed Cable Lock 10mm	Х	Х	Х	Х	T1A62AA
HP Master Keyed Cable Lock 10mm	Х	Х	X	X	T1A63AA

Stands and Accessories	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	<u>Part Number</u>
HP EliteOne 800 G6 23.8" Height Adjustable Stand				х	13L61AA
HP EliteOne 800 G6 23.8" Recline Stand				X	13L62AA
HP EliteOne 800 G6 27" Recline Stand				X	13L64AA

I/O Devices	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	Part Number
HP DisplayPort Port Flex IO v2	X	X	Х		13L54AA
HP Type-C® USB 3.1 Gen2 Port Flex IO v2		X	X		<u>13L59AA</u>
HP USB 3.1 Gen1 x2 Module Flex IO v2	(Not Available on 95W and discrete GPU SKUs)	х	х		13L58AA
HP VGA Port Flex IO v2	X	X	X		<u>13L53AA</u>
HP Serial Port Flex IO v2	(Not Available on 95W and discrete GPU SKUs)	х	х		<u>13L56AA</u>
HP Serial Port Flex IO 2 nd v2	X (Not Available on 95W and discrete GPU SKUs)				<u>13L57AA</u>
HP Internal Serial Port (in rear wall)		X	Х		3TK82AA
HP PCIe x1 Parallel Port Card		Х	Х		N1M40AA
HP Serial/PS/2 Adapter Kit (in PCIe slot)		X	Х		1VD82AA
HP USB to Serial Port Adapter	X	X	Х		J7B60AA
HP USB-C to Display Port Adapter	X	X	Х		N9K78AA
HP Single Mini Display Port Adapter to Display Port Adapter	X (Only Available with GPU SKUs)				2MY05AA
HP HDMI Standard Cable Kit	Х	Х	Х		<u>T6F94AA</u>
HP DisplayPort Cable Kit	X	X	Х		<u>VN567AA</u>
HP DisplayPort To VGA Adapter	Х	Х	Х	-	<u>AS615AA</u>
HP DisplayPort To DVI-D Adapter	Х	Х	Х		FH973AA



Technical Specifications – After Market Options

NOTE: For more detail on HP I/O Devices please refer to the HP FLEX IO Option Cards QuickSpecs. URL is: http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06042607

Communication Devices	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	<u>Part Number</u>
Intel® Ethernet I225-T1 GbE NIC		X	X		<u>TBD</u>
Intel Wi-Fi 6 AX200 ax 2x2 + BT5 non- vPro		X	X		

Intel® Optane Memory	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	<u>Part Number</u>
512GB Intel® Optane™ Memory H10 with SSD	х	х	х	х	6VF55AA



Change Log

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Date	Version History	Action	Description of Change
June 15, 2021	From v1 to v2	Removal	HP Workwell removed from software section
August 20, 2021	From v2 to v3	Removal	HP Sure view mentions from display panel specifications
August 26, 2021	From v3 to v4	Correction	NVIDIA® GeForce® RTX 3070 Graphics Card to 7680x4320@60Hz MAX. Res (HDMI)
September 23, 2021	From v4 to v5	Addition	LHR and disclaimer by the end of RTX 3070 model description
November 4, 2021	From v5 to v6	Update	1CA52AA removed and replaced with 52D76AA and 52D77AA added in Data Storage Drives at Amo section.
December 9, 2021	From v6 to v7	Update	Wi-fi 6 disclaimers updated.
December 15, 2021	From v6 to v7	Update	Windows 11 update
December 16, 2021	From v8 to v9	Update	TWR Environmental table updated
March 9, 2022	From v9 to v10	Removal	HP EliteOne 800 G6 27" Height Adjustable Stand removed from AMO section.

