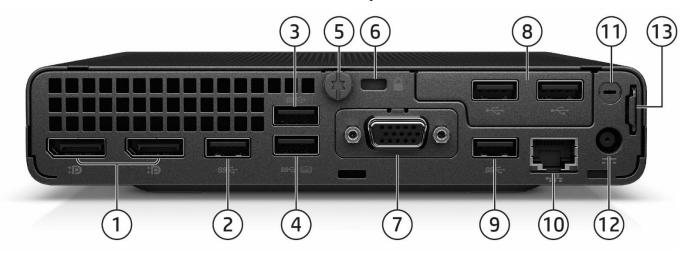
HP EliteDesk 800 G8 Desktop Mini Business PC



- 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



HP EliteDesk 800 G8 Desktop Mini Business PC



- 1. (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)
- 4. 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)
- VGA
- Serial¹
- 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

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

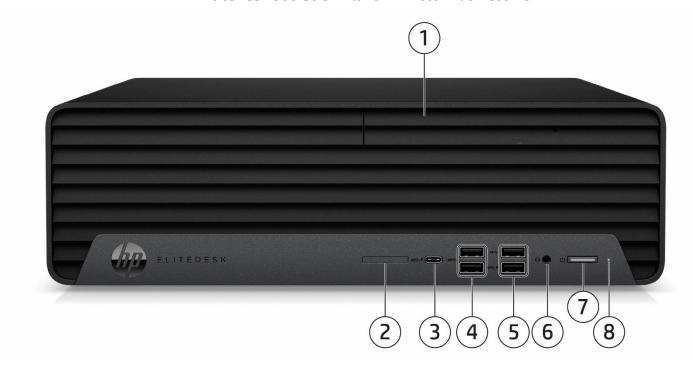
Support for

- VESA Sleeve Standalone
- Ouick Release Bracket
- B300/B500 Mounting bracket
- Integrated Work Center Stand
- 1. Sold separately or as an optional feature

- 3. (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



HP EliteDesk 800 G8 Small Form Factor Business PC

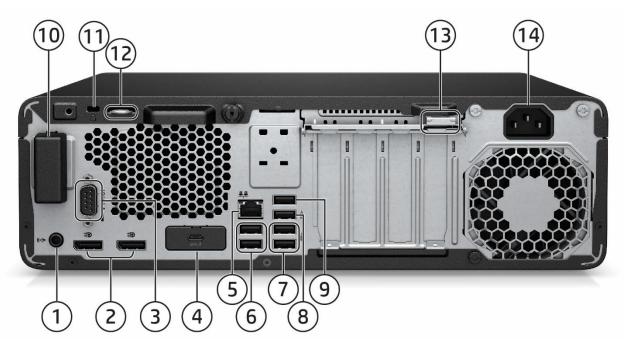


- 1. Slim optical drive (optional)
- 2. SD 4 Card Reader (optional)
- 3. Type-C[®] SuperSpeed USB 20Gbps signaling rate port (charge support up to 5V/3A)
- 4. (2) Type A SuperSpeed USB 10Gbps signaling rate port
- 5. (2) Type A SuperSpeed USB 5Gbps signaling rate port (1 with charge support up to 5V/1.5A)
- 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)

HP EliteDesk 800 G8 Small Form Factor Business 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):
 - DisplavPort™
 - HDMI 2.0b
 - VGA
- Serial
- 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 13. 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
- 12. Intrusion sensor/hood lock (optional, shown here not installed)
 - 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

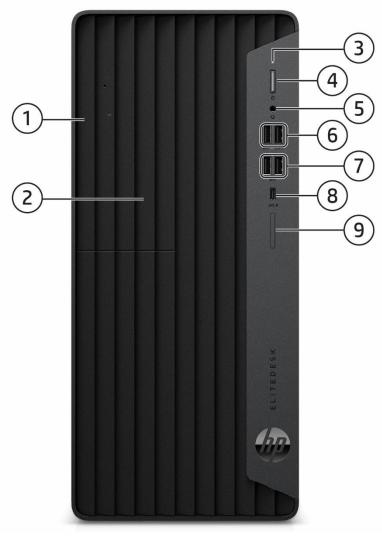
1. Each of the legacy port options would occupy one rear slot.

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



HP EliteDesk 800 G8 Tower Business PC



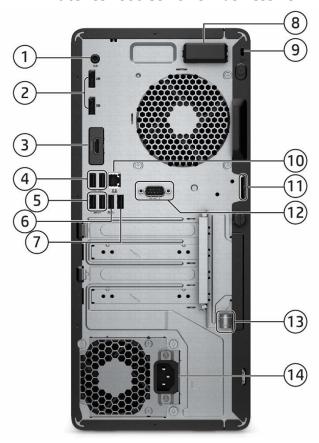
- 1. Slim optical drive (optional)
- 2. External 5.25-inch Half-Height Drive Bay (optional)
- 3. Hard drive activity light
- 4. Dual-state power button
- 5. Combo Audio Jack with CTIA and OMTP headset support
- **Not Shown**

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)

- 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)
 - (2) Type-A SuperSpeed USB 10Gbps signaling rate port

HP EliteDesk 800 G8 Tower Business 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 \$4/\$5

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

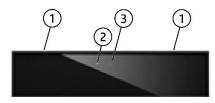


1. Camera (optional)

2. Speakers (optional)

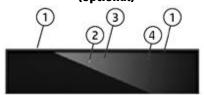
HP EliteOne 800 G8 24 & 27 All-in-One PC Touch/Non-Touch

5MP Pop-up Webcam (optional)



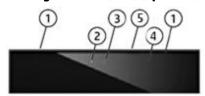
- 1. Dual Microphones
 - 2. Webcam Light
 - 3. SMP Webcam

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



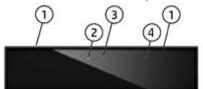
- 1. Dual Microphones
- 2. Webcam Light
- 3. IR/5MP Webcam 4. IR Light

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)



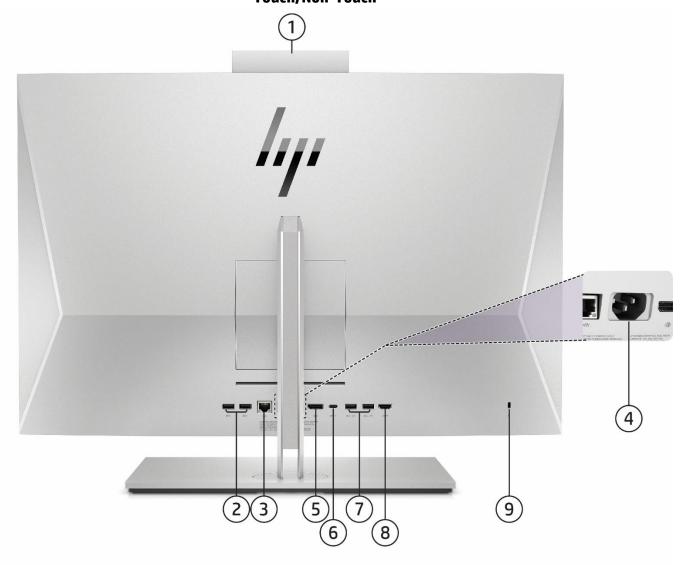
- 1. Dual Microphones
 - 2. Webcam Light
- 3. IR/5MP Webcam
 - 4. IR Light

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++)

- 6. 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.





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 10 Pro 64 - HP recommends Windows 10 Pro for business⁵

Windows 10 Pro 64 (National Academic only)6

Windows 10 Home 645

Windows 10 Home Single Language 645

Windows 10 Pro (Windows 10 Enterprise available with a Volume Licensing Agreement) 5

FreeDOS

Web-supported only Windows10 Enterprise 64 (Web Support)¹

5. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply, and additional requirements may apply over time for updates. See http://www.windows.com/.

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

NOTE: Your product does not support Windows 8 or Windows 7. In accordance with Microsoft's support policy, HP does not support the Windows® 8 or Windows 7 operating system on products configured with Intel® and AMD® 7th generation and forward processors or provide any Windows® 8 or Windows 7 drivers on http://www.support.hp.com. A full list of HP products and the Windows 10 versions tested is available on the HP support website. https://support.hp.com/us-en/document/c05195282.

Supported Versions

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>





PROCESSORS

Intel® 11 th Generation Core™ Processors	<u>DM</u>	<u>SFF</u>	TWR	<u>AiO</u>
Intel® Core™ i9-11900 Processor with Intel® UHD Graphics 750 (2.5GHz, up to 5.2 GHz with Intel® Turbo Boost Technology ⁷ , 16MB cache, 8 cores) 65W ^{8,9} Supports Intel® vPro® Technology ¹⁰		х	х	x
Intel® Core™ i9-11900T Processor with Intel® UHD Graphics 750 (1.5GHz, up to 4.9GHz with Intel® Turbo Boost Technology ⁷ , 16MB cache, 8 cores) 35W ^{8,9} Supports Intel® vPro® Technology ¹⁰	х			
Intel® Core™ i7-11700 processor with Intel® UHD Graphics 750 (2.5 GHz, up to 4.9 GHz with Intel® Turbo Boost Technology ⁷ , 16 MB cache, 8 cores) 65W ^{8,9} Supports Intel® vPro® Technology ¹⁰	х	x	x	x
Intel® Core™ i7-11700T Processor with Intel® UHD Graphics 750 (1.4 GHz, up to 4.6 GHz with Intel® Turbo Boost Technology ⁷ ,16MB cache, 8 cores) 35W ^{8,9} Supports Intel® vPro® Technology ¹⁰	Х			
Intel® Core™ i5-11600 processor with Intel® UHD Graphics750 (2.8 GHz, up to 4.8 GHz with Intel Turbo Boost Technology ⁷ , 12 MB cache, 6 cores) 65W ^{8,9} Supports Intel® vPro® Technology ¹⁰	Х	х	х	х
Intel® Core™ i5-11600T processor with Intel® UHD Graphics 750 (1.7GHz, up to 4.1 GHz with Intel Turbo Boost Technology ⁷ , 12 MB cache, 6 cores) 35W ^{8,9} Supports Intel® vPro® Technology ¹⁰	х			
Intel® Core™ i5-11500 processor with Intel® UHD Graphics 750 (2.7GHz, up to 4.6 GHz with Intel Turbo Boost Technology ⁷ , 12 MB cache, 6 cores) 65W ^{8,9} Supports Intel® vPro® Technology ¹⁰	x	х	х	х
Intel® Core™ i5-11500T processor with Intel® UHD Graphics 750 (1.5GHz, up to 3.9 GHz with Intel Turbo Boost Technology ⁷ , 12 MB cache, 6 cores) 35W ^{8,9} Supports Intel® vPro® Technology ¹⁰	Х			
Intel® Core™ i5-11400 processor with Intel® UHD Graphics 730 (2.6 GHz, up to 4.4 GHz with Intel Turbo Boost Technology ⁷ , 12 MB cache, 6 cores) 65W ^{8,9}	х	Х	X	X
Intel® Core™ i5-11400T processor with Intel® UHD Graphics 730 (1.3GHz, up to 3.7 GHz with Intel Turbo Boost Technology ⁷ , 12 MB cache, 6 cores) 35W ^{8,9}	Х	_		

^{7.} 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.



^{8.} 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.

^{9.} Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system.

^{10.} 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)	Х	X	Х	Х
Intel® UHD Graphics 730 (integrated in 11 th gen Core i5-11400 & i5- 11400T)	Х	X	Х	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*			Х	
NVIDIA® Quadro P2200 5GB 4DP Graphics Card			Х	
NVIDIA® Quadro P1000 4GB 4mDP Graphics Card			Х	
NVIDIA® Quadro P620 2GB 4mDP Graphics Card		X	Х	
NVIDIA® Quadro P400 2GB w/ 2mDP to DVI Graphics Card		X	Х	
NVIDIA® Quadro P400 2GB w/ 2mDP to DP Graphics Card			Х	
NVIDIA® GeForce® GTX 1660Ti 6GB 1m HMDI, 3m DP Graphics Card**	X			
AMD® Radeon™ RX 5300 3GB NGC Graphics Card				
AMD® Radeon™ RX 550X 4GB FH DP+HDMI Graphics Card*		X	X	
AMD® Radeon™ R7 430 2GB DP+VGA***		X	Х	
AMD® Radeon™ R7 430 2GB 2DP***		X	X	

^{*} Requires 550W chassis

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	Х	X
HP DisplayPort™ to DVI-D Adapter	Х	X	Х	Х
HP DisplayPort™ to HDMI True 4K Adapter	Х	X	Х	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	X
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			

^{**} 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.

^{***} Not available in all regions



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	Х	Х	
1TB 7200RPM 2.5in SATA HDD	X	X	Х	
2TB 5400RPM 2.5in SATA HDD	X	Х	Х	
500GB 7200RPM 2.5in Self Encrypted OPAL2 SATA HDD*	X	Х	Х	
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	X	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	Х	X	Х
256GB M.2 2280 PCIe 4NVMe Three Layer Cell SSD	Х	Х	Х	Х
512GB M.2 2280 PCIe 3 NVMe Three Layer Cell SSD	Х	Х	Х	Х
512GB M.2 2280 PCIe 4 NVMe Three Layer Cell SSD	Х	Х	Х	Х
1TB M.2 2280 PCIe 3 NVMe Three Layer Cell SSD	Х	Х	Х	Х
1TB M.2 2280 PCIe 4 NVMe Three Layer Cell SSD	Х	Х	Х	Х
2TB M.2 2280 PCIe 3 NVMe Three Layer Cell SSD	Х	Х	Х	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	Х	Х	Х
512GB M.2 2280 PCIe NVMe Self Encrypted OPAL2 Three Layer Cell SSD*	Х	Х	Х	Х
256GB Intel® Optane™ Memory H10 with Solid State Storage*,**	Х	Х	Х	Х
512GB Intel® Optane™ Memory H10 with Solid State Storage*,**	Х	Х	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

Optical Disc Drives	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP 9.5mm Slim DVD-ROM Drive ¹¹		X	X	
HP 9.5mm Slim DVD Writer Drive ¹¹		Х	Х	

11. 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>
DDR4-320	0, 64 GB, 2 SODIMM ¹	Х			X
DDR4-320	0 (Transfer rates up to 3200 MT/s), 64 GB, 4 DIMM		X¹		
DDR4-320	0 (Transfer rates up to 2933 MT/s), 128 GB, 4 DIMM ²		X	Х	

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	X
16 GB (1 x 16 GB)	Х	Х	Х	X
32 GB (2 x 16 GB)	Х	Х	Х	X
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.





NETWORKING/COMMUNICATIONS

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

Wireless ¹²	<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 rate ¹³)	X	Х	Х	Х
Intel® Wi-Fi 6 AX201 + BT5.1 (802.11AX 2x2 non-vPro, supporting gigabit data rate ¹³)	Х	Х	X	
Realtek RTL8852AE 802.11ax 2x2 Wi-Fi® 6 + BT5.2	X	X	Х	Х

^{12.} Wireless access point and Internet service required and not included. Availability of public wireless access points limited. The specifications for the 802.11ax WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the PC to communicate with 802.11ax WLAN devices. Wi-Fi 6 requires a wireless router, sold separately, that supports 802.11ax (Wi-Fi 6). Only available in countries where 802.11ax is supported.

KEYBOARDS AND POINTING DEVICES

eyboards	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP USB 320K Keyboard	X	X	Х	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 ¹⁴	X	X	X	X
HP USB PS/2 Washable Wired Keyboard	X	X	X	Х

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

Keyboard and Mouse Combo		<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		Х	X	
HP Wireless Keyboard and Mouse Premium Keyboard	х	Х	Х	X

^{14.} Availability may vary by country



^{13.} 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.

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	X
Solenoid Lock & Intrusion Sensor (optional)		Х	Х	
Intrusion Sensor for DM/AiO (integrated in the PCA, can be enabled/disabled through BIOS)	Х			Х
Support for chassis cable lock devices	X (10 mm barrel or smaller)	x	x	x
Support for chassis padlocks devices	X	X	X	
HP Fingerprint Sensor (optional)				Х
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)	X	X	X	X
Optional USB Port Disable at factory (user configurable via BIOS)	X	X	X	Х
Removable media write/boot control	X	X	X	Х
Power-on password (via BIOS)	X	X	X	X
Setup password (via BIOS)	X	X	X	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 PCle3 x1 2230 (for WLAN) (1) M.2 PCle4 x4 2280 (for storage) (1) M.2 PCle3 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) ¹⁵		(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

15. 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	1 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)



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 ¹⁶	1 ¹⁷	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 ¹⁷	1	1	
Fiber NIC Adapter	(1) 100Mbps NIC			
Fiber NIC Adapter	(1) 1 Gbps NIC			
RJ-45 Ethernet NIC	(1) 2.5GbE	1	1	

16. Occupies a PCIe slot on TWR/SFF. Available in Q3, 2021.

^{17.} 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	1 ¹⁸	1	1	
3.5" Internal Storage Drive		2	2	

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





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



SOFTWARE COMPONENTS AND APPLICATIONS WITH WINDOWS

BIOS

HP BIOSphere Gen6 ¹⁹
HP Secure Erase²⁰
Absolute Persistence Module²¹
HP Drive Lock & Automatic Drive Lock²²
BIOS Update via Network
HP Wake on WLAN

HP Desktop Support Utilities

Software

HP Connection Optimizer²³
HP Easy Clean
myHP
HP Privacy Settings
HP PC Hardware Diagnostics
Touchpoint Customizer for Commercial
HP Notifications
HP Presence Aware²⁴
HP Setup Integrated OOBE
HP Support Assistant²⁵
HP Noise Cancellation Software
HP QuickDrop²⁶
HP WorkWell

Buy Microsoft Office (sold separately)

Manageability Features

Microsoft Defender

HP Driver Packs (download) ²⁷
HP Client Catalog (download)
HP Image Assistant (download)
HP Manageability Integration Kit for Microsoft System Center Configuration Management Gen4 (download)²⁸
Ivanti Management Suite (download)²⁹
HP Cloud Recovery³⁰
HP Client Management Script Library (download)

Security Management

HP Pro Security Edition (optional)³¹
HP Client Security Manager Gen7³²
HP Sure Sense³³
HP Sure Admin³⁴
HP Sure Click³⁵
HP Sure Start Gen6³⁶
HP Sure Run Gen4³⁷
HP Sure Recover Gen4³⁸
HP Tamper Lock

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

19. 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.

20. 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™.

21. 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.

- 22. Drive Lock is not supported on NVMe drives.
- 23. HP Connection Optimizer requires Windows 10.
- 24. HP Presence Aware requires a proximity sensor that is available on select EliteBooks and requires Windows Hello for authentication.
- 25. HP Support Assistant requires Windows and Internet access.
- 26. 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.
- 27. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 28. HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html.
- 29. Ivanti Management Suite subscription required.
- 30. 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.
- 31. 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.

 32. HP Client Security Manager Gen7 requires Windows and is available on the select HP Elite and Pro PCs.
- 33. HP Sure Sense is available on select HP PCs and is not available with Windows 10 Home.
- 34. 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.
- 35. HP Sure Click requires Windows 10. See https://bit.ly/2PrLT6A_SureClick for complete details.
- 36. HP Sure Start Gen6 is available on select HP PCs and requires Windows 10.
- 37. HP Sure Run Gen4 is available on select HP PCs and requires Windows 10.
- 38. 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.



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)39

TAA compliant models available

39. 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)⁴⁰

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)

40. 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.





	HP	EliteDesk	800	Desktop	Mini G	8 series
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HP EliteDesk 800 Desktop Eco-Label Certifications &	This product has received or is in t	ho process of heire -	ortified to the f-	llowing approvals and many		
declarations	be labeled with one or more of the		ertinea to the ro	llowing approvals and may		
uectarations	• IT ECO declaration	ese marks.				
	• IT ECO declaration • US ENERGY STAR®					
	• ENERGY STAR® certified. EPEAT®	2019 registered whe	re applicable Ra	ased on US FPFAT®		
	registration according to IEEE 168					
	http://www.epeat.net for more information.					
System Configuration	The configuration used for the End	oray Concumption and	d Doctarod Noico	Emissions data for the		
	Desktop model is based on a "Typ			Ellissions data for the		
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz 230VAC, 50Hz 100VAC, 50Hz					
Normal Operation (Short idle)	8.9320 W	8.9410 V	N	8.9190 W		
Normal Operation (Long idle)	6.3380 W	6.3460 V	N	6.3280 W		
Sleep	1.0520 W	1.1020 V		1.0320 W		
Off	0.8210 W	0.8220 V	N	0.8200 W		
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 for not offer ENERGY STAR® certified configurations, then energy efficiency data listed is for a typical PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operation.						
Heat Dissipation*	115VAC, 60Hz	230VAC, 50	DHz	100VAC, 50Hz		
Normal Operation (Short idle)	30.4581 BTU/hr	30.4581 BTU/hr 30.4888 BTU/hr		30.4138 BTU/hr		
Normal Operation (Long idle)	21.6126 BTU/hr	21.6399 BTU/hr 21.5785 BTU/hr				
Sleep	3.5873 BTU/hr	3.7578 BTL		3.5191 BTU/hr		
Off	2.7996 BTU/hr	2.8030 BTL	J/hr	2.7962 BTU/hr		
	NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level one hour.					
Declared Noise Emissions	Sound Power		۲۰	und Droccure		
(in accordance with ISO 7779 and ISO 9296)	(L _{WAd} , bels)			und Pressure _{DAm} , decibels)		
Typically Configured – Idle	2.8			18.8		
Fixed Disk – Random writes	2.8 18.8					
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						
	Batteries used in the product do not contain:					
	Mercury greater the1ppm by weight					
	Cadmium greater than 20ppm by weight					
	Cadmium greater than 20ppm by	weight				
	Cadmium greater than 20ppm by v Battery size: CR2032 (coin cell)	weight				





ctive — 2002/96/ is product is in comer and Toxic Enformation according its product contant derived post-comis product is 95. FE: Recycled plastics product is 95.	designed to comply with the W/EC. ompliance with California Proporcement Act of 1986). tified. EPEAT® 2019 registered to IEEE 1680.1-2018 EPEAT® IEEE 1680.1	d where applicable. Bare of Carlo where applicable. Bare of EPEAT® status varied product are marked plass by disposed of at end of the definition set in the applications of the definition set in the product at the definition set in excess the definition	alifornia; Safe Drinking sed on US EPEAT® es by country. Visit per ISO11469 and ISO1043 tic (by wt.); Including 10% f life. IEEE 1680.1-2018 standard. 405 g 74 g 3 g
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rnal: PLAS product does no ne HP General Sp ://www.hp.com/	TIC/Polyethylene low density ot contain any of the following pecification for the Environmer	nt at	3 g
product does no ne HP General Sp ://www.hp.com/	ot contain any of the following pecification for the Environmer	nt at	
ne HP General Sp ://www.hp.com/	pecification for the Environmer	nt at	of regulatory limits (refer
rtain Azo Coloral rtain Brominated dmium lorinated Hydrod lorinated Paraffirmaldehyde logenated Diphe ad carbonates and Lead comercuric Oxide Batckel – finishes mied by the user. One Depleting Solybrominated Bilybrominated Bilybrominated Bilychlorinated Telychlorinated	d Flame Retardants – may not carbons ins enyl Methanes nd sulfates npounds eteries nust not be used on the externation of the	al surface designed to	be frequently handled or
2 i	ad carbonates a ad and Lead con created and Lead con created by the user. One Depleting S lybrominated Bi lybrominated Bi lychlorinated Telyvinyl Chloride	ad carbonates and sulfates ad and Lead compounds crcuric Oxide Batteries ckel – finishes must not be used on the externation died by the user. one Depleting Substances lybrominated Biphenyls (PBBs) lybrominated Biphenyl Ethers (PBBEs) lybrominated Biphenyl Oxides (PBBOs) lychlorinated Biphenyl (PCB) lychlorinated Terphenyls (PCT)	ad carbonates and sulfates ad and Lead compounds crcuric Oxide Batteries ckel – finishes must not be used on the external surface designed to ied by the user. one Depleting Substances lybrominated Biphenyls (PBBs) lybrominated Biphenyl Ethers (PBBEs) lybrominated Biphenyl Oxides (PBBOs) lychlorinated Biphenyl (PCB) lychlorinated Terphenyls (PCT) lyvinyl Chloride (PVC) – except for wires and cables, and certain retai



Packaging Usage

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

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

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

End-of-life Management and Recycling

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

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

Global Citizenship Report

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

Eco-label certifications

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

ISO 14001 certificates:

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

and

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





HP EliteDesk 800 Small Form Factor 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, 50Hz 100VAC,					
Normal Operation (Short idle)	12.479 watt	12.579 \	watt	12.291 watt		
Normal Operation (Long idle)	11.193 watt	11.306	watt	11.151 watt		
Sleep	0.675 watt	0.7		0.665 watt		
Off	0.479 watt	0.5		0.475 watt		
Heat Dissipation*	Environmental Protection Agency (EPA not offer ENERGY STAR® compliant con configured PC featuring a hard disk driv system. 115VAC, 60Hz	figurations, then ene	ergy efficiency data ower supply, and a	a listed is for a typically		
Normal Operation (Short				-		
idle)	42.55339 BTU/hr	42.89439	BTU/hr	41.91231 BTU/hr		
Normal Operation (Long idle)	38.16813 BTU/hr	38.55346	BTU/hr	38.02491 BTU/hr		
Sleep	2.30175 BTU/hr	2.40064 B	BTU/hr	2.26765 BTU/hr		
Off	1.63339 BTU/hr	1.70841 B	BTU/hr 1.61975 BTU/hr			
	NOTE: Heat dissipation is calculated ba one hour.	sed on the measured	l watts, assuming t	the service level is attained for		
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L _{WAd} , bels)			Sound Pressure (L _{pAm} , decibels)		
Typically Configured – Idle	3.11			20.7		
Fixed Disk–Random writes	3.41 22.1					
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 o production.					
Batteries	This battery(s) in this product comply with EU Directive 2006/66/EC Batteries used in the product do not contain: Mercury greater the1ppm by weight					
	Cadmium greater than 20ppm by w					
	Battery size: CR2032 (coin cell)					





	Battery type:	: Lithium			
Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). 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. This product contains a minimum of 35% post-consumer recycled plastic (by wt.); Including 10% ITE-derived post-consumer recycled plastic* This product is 95.1% recycle-able when properly disposed of at end of life. *NOTE: Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.				
Packaging Materials	External:	PAPER/Corrugated	1158 g		
rackayiiiy materiats	Internal:	PLASTIC/EPE (Expanded Polyethylene)	320 g		
	meemat.	PLASTIC/Polyethylene low density	28 q		
Material Usage	to the HP Ger http://www.l	minated Flame Retardants – may not be used as flame retained Hydrocarbons If Paraffins yde ed Diphenyl Methanes nates and sulfates ead compounds kide Batteries ishes must not be used on the external surface designed to e user. leting Substances nated Biphenyls (PBBs) nated Biphenyl Ethers (PBBEs) nated Biphenyl Oxides (PBBOs) nated Biphenyl (PCB) lated Terphenyls (PCT) hloride (PVC) – except for wires and cables, and certain retainemoved 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

This product has received or is in the process of being certified to the following at 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 registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by counttp://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, 50Hz	100VAC, 60Hz				
Normal Operation (Short idle)	11.67 W	11.24 W	11.53 W				
Normal Operation (Long idle)	9.83 W	10.55 W	9.69 W				
Sleep	0.84 W	0.81 W	0.86 W				
Off	0.57 W 0.53 W		0.57 W				

Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does



not offer ENERGY STAR® compliant configurations, then energy efficiency data li configured PC featuring a hard disk drive, a high efficiency power supply, and a M					
	system.				
Heat Dissipation*	11!	5VAC, 60Hz	230VAC, 5	0Hz	100VAC, 60Hz
Normal Operation (Short idle)	39	.91 BTU/hr	38.44 BTU/hr		39.43 BTU/hr
Normal Operation (Long idle)	33	.62 BTU/hr	36.08 BTU	/hr	33.14 BTU/hr
Sleep	2.	87 BTU/hr	2.77 BTU/hr		2.94 BTU/hr
Off	1.	95 BTU/hr	1.81 BTU,	/hr	1.95 BTU/hr
	NOTE: Heat d one hour.	issipation is calculated b	ased on the measured v	vatts, assuming t	he service level is attained for
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power Sound P			ound Pressure L _{pAm} , decibels)	
Typically Configured – Idle		3.3			21
Fixed Disk–Random writes		3.3			22
Longevity and Upgrading	features and	d/or components cont	ained in the product n	nay include:	eral years. Upgradeable to "5" years after the end of
Batteries	production. This battery(s) in this product comply with EU Directive 2006/66/EC				
Additional Information	Batteries used in the product do not contain: Mercury greater the1ppm by weight Cadmium greater than 20ppm by weight Battery size: CR2032 (coin cell) Battery type: Lithium • This product is in compliance with the Restrictions of Hazardous Substances (RoH: 2011/65/EC. • This HP product is designed to comply with the Waste Electrical and Electronic Equ Directive – 2002/96/EC. • This product is in compliance with California Proposition 65 (State of California; Sa Water and Toxic Enforcement Act of 1986). • ENERGY STAR® certified. EPEAT® 2019 registered where applicable. Based on US E registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by countribite://www.epeat.net for more information • Plastics parts weighing over 25 grams used in the product are marked per ISO1140. This product contains a minimum of 35% post-consumer recycled plastic (by wt.); ITE-derived post-consumer recycled plastic* • This product is 95.1% recycle-able when properly disposed of at end of life.				Electronic Equipment (WEEE) California; Safe Drinking Based on US EPEAT® ries by country. Visit d per ISO11469 and ISO1043. astic (by wt.); Including 10%
				efinition set in th	e IEEE 1680.1-2018 standard.
Packaging Materials	External:	PAPER/Corrugated			1114 g
	<u> </u>	PAPER/Molded Pul			788 g
	Internal:		ene low density - LDP		44 g
Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf): • Asbestos • Certain Azo Colorants				



Features

	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 0xide (TBT0)
Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging:
	Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging
	materials.
	Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
	Design packaging materials for ease of disassembly.
	Maximize the use of post-consumer recycled content materials in packaging materials.
	Use readily recyclable packaging materials such as paper and corrugated materials.
	Reduce size and weight of packages to improve transportation fuel efficiency.
	Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management	HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To
and Recycling	recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest
and necycling	HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible
	manner.
	The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for
	each product type for use by treatment facilities. This information (product disassembly
	instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These
	instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM
	customers who integrate and re-sell HP equipment.
	Global Citizenship Report
	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
	Eco-label certifications
	http://www8.hp.com/us/en/hp-information/environment/ecolabels.html
	ISO 14001 certificates:
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K
	_Certificate.pdf
	and
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

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

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



Features

System Configuration	 US ENERGY STAR® US Federal Energy Managem Based on US EPEAT® registral varies by country. Visit http:// TCO Certified Edge China Energy Conservation P China State Environmental P Taiwan Green Mark Korea Eco-label Japan PC Green label* The configuration used for the Enein-One PC model is based on a typic power supply, and a Microsoft Wind 	rition according to IEEE 1 //www.epeat.net for mo rogram (CECP) rotection Administration rgy Consumption and Do cally configured PC feat	ore information n (SEPA) eclared Noise E uring a hard dis	missions data for the All-
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	Z	100VAC, 50Hz
Normal Operation (Short idle)	15.60 W	15.68 W		15.45 W
Normal Operation (Long idle)	5.57 W	5.65 W		5.41 W
Sleep	0.94 W	1.00 W		0.82 W
Off	0.84 W	0.87 W		0.81 W
	Environmental Protection Agency (EPA not offer ENERGY STAR® compliant cor configured PC featuring a hard disk dri system.	ofigurations, then energy e ve, a high efficiency power	fficiency data lis supply, and a Mi	ted is for a typically crosoft Windows® operating
	115VAC, 60Hz 230VAC, 50Hz		Z	100VΔΓ 50Η2
Heat Dissipation*	53.2028BTU/hr 53.4772 BTU/hr 52.69		100VAC, 50Hz	
Normal Operation (Short idle)	53.2028BTU/hr	53.4772 BTU/h	nr	52.691 BTU/hr
Normal Operation	53.2028BTU/hr 19.02 BTU/hr	53.4772 BTU/h	nr	
Normal Operation (Short idle) Normal Operation	·	<u> </u>	nr	52.691 BTU/hr
Normal Operation (Short idle) Normal Operation (Long idle)	19.02 BTU/hr	19.3 BTU/hr	nr	52.691 BTU/hr 18.5 BTU/hr
Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off	19.02 BTU/hr 3.2 BTU/hr 2.9 BTU/hr NOTE: Heat dissipation is calculated ba	19.3 BTU/hr 3.4 BTU/hr 3 BTU/hr	es, assuming the	52.691 BTU/hr 18.5 BTU/hr 2.8 BTU/hr 2.8 BTU/hr service level is attained for
Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with	19.02 BTU/hr 3.2 BTU/hr 2.9 BTU/hr NOTE: Heat dissipation is calculated ba	19.3 BTU/hr 3.4 BTU/hr 3 BTU/hr	es, assuming the	52.691 BTU/hr 18.5 BTU/hr 2.8 BTU/hr 2.8 BTU/hr
Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	19.02 BTU/hr 3.2 BTU/hr 2.9 BTU/hr NOTE: Heat dissipation is calculated be one hour. Sound Power (LwAd, bels)	19.3 BTU/hr 3.4 BTU/hr 3 BTU/hr	es, assuming the	52.691 BTU/hr 18.5 BTU/hr 2.8 BTU/hr 2.8 BTU/hr service level is attained for and Pressure m, decibels)
Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with	19.02 BTU/hr 3.2 BTU/hr 2.9 BTU/hr NOTE: Heat dissipation is calculated baone hour. Sound Power	19.3 BTU/hr 3.4 BTU/hr 3 BTU/hr	es, assuming the	52.691 BTU/hr 18.5 BTU/hr 2.8 BTU/hr 2.8 BTU/hr service level is attained for



	Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.						
Batteries		s) in this product comply with EU Directive 2006/66/EC					
	Mercury grea Cadmium gre	Batteries used in the product do not contain: Mercury greater the1ppm by weight Cadmium greater than 20ppm by weight Battery size: CR2032 (coin cell)					
Additional Information	This pr - 2011 This HI	oduct is in compliance with the Restrictions of Hazardo /65/EC. P product is designed to comply with the Waste Electric Directive – 2002/96/EC.					
	This pr WaterENERG registr	oduct is in compliance with California Proposition 65 (S and Toxic Enforcement Act of 1986). Y STAR® certified. EPEAT® 2019 registered where appli ation according to IEEE 1680.1-2018 EPEAT®. EPEAT® sepeat.net for more information.	cable. Based on US EPEAT®				
	e marked per ISO11469 and (by wt.) according to IEEE at end of life.						
Packaging Materials	External:	PAPER/Corrugated	1.488 g				
	Internal:	PLASTIC/Polyethylene Expanded - EPE	1.052 g				
		ackaging material contains at least xx% recycled conte ed paper packaging materials contains at least xx% rec					
RoHS Compliance	HP Inc. comp restrictions in products wo	lies fully with materials regulations. We were among the three thr	ne first companies to extend the ostances (RoHS) Directive to our				
	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.						
	We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve.						
	To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.						
Material Usage	to the HP Ger http://www.l • Asbestos • Certain Azo • Certain Bro • Cadmium	does not contain any of the following substances in ex- neral Specification for the Environment at np.com/hpinfo/globalcitizenship/environment/pdf/gse Colorants minated Flame Retardants – may not be used as flame	.pdf):				



Features

	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 Biphenyls (PBBs)
	Polybrominated Biphenyl Ethers (PBBEs) Polybrominated Biphenyl Ovides (PBBOs)
	Polybrominated Biphenyl Oxides (PBBOs) Polybrominated Biphenyl (PSB)
	Polychlorinated Biphenyl (PCB) Polychlorinated Tourhouse (PCT)
	Polychlorinated Terphenyls (PCT) Polywinyl Chlorida (PVC)
	• 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 quidelines to decrease the environmental impact of product packaging:
r ackaging osage	1
	Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
	Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
	Design packaging materials for ease of disassembly.
	Maximize the use of post-consumer recycled content materials in packaging materials.
	Use readily recyclable packaging materials such as paper and corrugated materials.
	Reduce size and weight of packages to improve transportation fuel efficiency.
	Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management	HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To
and Recycling	recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest
	HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible
	manner.
	The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for
	each product type for use by treatment facilities. This information (product disassembly
	instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These
	instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM
	customers who integrate and re-sell HP equipment.
	Global Citizenship Report
	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
	Eco-label certifications
	http://www8.hp.com/us/en/hp-information/environment/ecolabels.html
	ISO 14001 certificates:
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K
	_Certificate.pdf
	and http://www.hp.com/hpinfo/globalcitizonchip/onvironment/pdf/cort.pdf
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

HP EliteOne 800 G8 27 All-in-One PC

Eco-Label Certifications &	This product has received or is in the process of being certified to the following approvals and may
declarations	be labeled with one or more of these marks:
	IT ECO declaration
	US ENERGY STAR®
	US Federal Energy Management Program (FEMP)



Features

Energy Consumption (in accordance with US ENERGY STRA® test method) 115VAC, 60Hz 22.97 W 22.65 W 22.42 W (Short idle) Normal Operation (Long idle) Sleep 1.47 W 1.52 W 1.35 W Off 0.88 W 0.89 W 0.89 W 0.84 W Note: Energy efficiency data listed is for an ENERGY STAR® specifications for computers. If a model family, the computers marked with the ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® openitant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® openitations for computers. If a model family does not offer ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® openitations are applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® openitations are applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® openitations are applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® specifications for computers are applicable. U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers in a model family does not offer ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® specifications for co	System Configuration	See http://www.epear HP's 3rd party option http://www.hp.com/g TCO Certified Edge China Energy Conserv China State Environme Taiwan Green Mark Korea Eco-label Japan PC Green label*	t.net for registrati store for solar ger to/options. ation Program (CE ental Protection A Energy Consumpt typically configure	on status by coun nerator accessori CCP) dministration (SE tion and Declared ed PC featuring a	
Normal Operation (Short idle) 1.35 W	Energy Consumption (in accordance with US ENERGY STAR® test method)				100VAC, 60Hz
(Long idle) Sleep 1.47 W 1.52 W 1.35 W Off 0.88 W 0.89 W 0.89 W 0.84 W Note: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system. Heat Dissipation* 115VAC, 60Hz 230VAC, 50Hz 100VAC, 60Hz Normal Operation (Short idle) Normal Operation (Short idle) 76.967 BTU/hr 77.2467 BTU/hr 22 BTU/hr 21.2 BTU/hr Sleep 5 BTU/hr 21.2 BTU/hr 21.2 BTU/hr 21.2 BTU/hr Off 3 BTU/hr 3 BTU/hr 3 BTU/hr 3 BTU/hr 2.9 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 150 7779 and 150 9296) Typically Configured – Idle Fixed Disk – Random writes Longevity and Upgrading This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: • 6 USB ports • 2 memory slots • 1 Mini PCle half-length slot	Normal Operation (Short idle)	22.57 W	22.6	5 W	22.42 W
Note: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® pspecifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system. Heat Dissipation* 115VAC, 60Hz 230VAC, 50Hz 100VAC, 60Hz Normal Operation (Short idle) 76.967 BTU/hr 77.2467 BTU/hr 22 BTU/hr 21.2 BTU/hr (Long idle) 21.7 BTU/hr 22 BTU/hr 23 BTU/hr 21.2 BTU/hr 21.2 BTU/hr Off 3 BTU/hr 3 BTU/hr 3 BTU/hr 3 BTU/hr NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour. Declared Noise Emissions (in accordance with (L _{pAm} , decibels) Typically Configured – Idle Fixed Disk – Random writes Longevity and Upgrading This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: • 6 USB ports • 2 memory slots • 1 Mini PCle half-length slot	Normal Operation (Long idle)	6.35 W	6.44	W	6.19 W
Note: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® pspecifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system. Heat Dissipation* 115VAC, 60Hz 230VAC, 50Hz 100VAC, 60Hz Normal Operation (Short idle) 76.967 BTU/hr 77.2467 BTU/hr 22 BTU/hr 21.2 BTU/hr (Long idle) 21.7 BTU/hr 22 BTU/hr 23 BTU/hr 21.2 BTU/hr 21.2 BTU/hr Off 3 BTU/hr 3 BTU/hr 3 BTU/hr 3 BTU/hr NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour. Declared Noise Emissions (in accordance with (L _{pAm} , decibels) Typically Configured – Idle Fixed Disk – Random writes Longevity and Upgrading This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: • 6 USB ports • 2 memory slots • 1 Mini PCle half-length slot	Sleep	1.47 W	1.52	: W	1.35 W
Note: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system. Heat Dissipation* 115VAC, 60Hz 230VAC, 50Hz 100VAC, 60Hz Normal Operation (Short idle) 76.967 BTU/hr 77.2467 BTU/hr 21.2 BTU/hr 76.4556 B	Off				
Normal Operation (Short idle) Normal Operation (Long idle) 21.7 BTU/hr 22 BTU/hr 22 BTU/hr 21.2 BTU/hr 21.2 BTU/hr Off 3 BTU/hr 3 BTU/hr 3 BTU/hr 3 BTU/hr 2.9 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 150 7779 and 150 9296) Typically Configured – Idle Fixed Disk – Random writes Longevity and Upgrading This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: - 6 USB ports - 2 memory slots - 1 Mini PCle half-length slot		not offer ENERGY STAR® complian configured PC featuring a hard dis system.	t configurations, the k drive, a high efficio	en energy efficienc ency power supply	y data listed is for a typically , and a Microsoft Windows® operating
(Short idle) Normal Operation (Long idle) Sleep 5 BTU/hr 3 BTU/hr 5.2 BTU/hr 1.2 BTU/hr 2.1.2 BTU/hr 3 BTU/hr 3 BTU/hr 3 BTU/hr NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour. Declared Noise Emissions (in accordance with 150 7779 and 150 9296) Typically Configured – Idle Fixed Disk – Random writes Longevity and Upgrading This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: 6 USB ports 2 memory slots 1 Mini PCIe half-length slot	-	115VAC, 60Hz	230VAC	, 50Hz	100VAC, 60Hz
(Long idle) Sleep 5 BTU/hr Sleep 5 BTU/hr 3 BTU/hr NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour. Sound Power (in accordance with 150 9296) Typically Configured – Idle Fixed Disk – Random writes Longevity and Upgrading This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: 6 USB ports 2 In BTU/hr 5.2 BTU/hr 4.6 BTU/hr 2.9 BTU/hr 8 Sound Pressure (L _{pAm} , decibels) 15 This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: 6 USB ports 2 memory slots 1 Mini PCIe half-length slot	(Short idle)	76.967 BTU/hr	77.2467	BTU/hr	76.4556 BTU/hr
Off 3 BTU/hr 3 BTU/hr 2.9 BTU/hr NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour. Sound Power Sound Pressure (L _{pAm} , decibels) ISO 7779 and ISO 9296) Typically Configured – Idle 2.5 15 Fixed Disk – Random writes 2.6 16 Longevity and Upgrading This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: • 6 USB ports • 2 memory slots • 1 Mini PCIe half-length slot	(Long idle)				
NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour. Sound Power (LpAm, decibels) (LpAm, decibels) Typically Configured – Idle Fixed Disk – Random writes Longevity and Upgrading This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: 6 USB ports 2 memory slots 1 Mini PCle half-length slot					
Declared Noise Emissions (in accordance with (L _{WAd} , bels) (L _{DAm} , decibels) Typically Configured – Idle 2.5 15 Fixed Disk – Random writes Longevity and Upgrading This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: • 6 USB ports • 2 memory slots • 1 Mini PCIe half-length slot	Off	3 BTU/hr	3 BTL	J/hr	2.9 BTU/hr
(In accordance with ISO 9296) Typically Configured – Idle Fixed Disk – Random writes Longevity and Upgrading This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: • 6 USB ports • 2 memory slots • 1 Mini PCIe half-length slot		-	ed based on the mea	asured watts, assu	ming the service level is attained for
Typically Configured – Idle Fixed Disk – Random writes Longevity and Upgrading This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: 6 USB ports 2 memory slots 1 Mini PCIe half-length slot	Declared Noise Emissions	Sound Power Sound Pressure		Sound Pressure	
Fixed Disk – Random writes 2.6 Longevity and Upgrading This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: 6 USB ports 2 memory slots 1 Mini PCIe half-length slot	(in accordance with ISO 7779 and ISO 9296)	(L _{WAd} , bels) (L _{pAm} , decibels)			
Fixed Disk – Random writes 2.6 Longevity and Upgrading This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: 6 USB ports 2 memory slots 1 Mini PCIe half-length slot	Typically Configured – Idle	2.5			15
features and/or components contained in the product may include: • 6 USB ports • 2 memory slots • 1 Mini PCIe half-length slot	Fixed Disk – Random writes	2.6 16			
• 1 mSATA slot	Longevity and Upgrading	 features and/or components c 6 USB ports 2 memory slots 1 Mini PCIe half-length slot 1 MXM 3.0 Type A - 35W slo 	ontained in the pro		
1 2.5" internal bay supporting up to Two 2.5" hard drives (HDD/SSD/SED/SSHD)			na un to Two 2 5"	hard drives (HDD	/SSD/SED/SSHD)





Features

	- 1535" 4	standard and a standard duite.	
	1 5.25" external supporting optical drive		
	Spare parts a production.	are available throughout the warranty period and o	r for up to "5" years after the end of
Batteries	This battery(s) in this product comply with EU Directive 2006/66	5/EC
Additional Information	Mercury great Cadmium great Battery size: Battery type	ed in the product do not contain: eter the1ppm by weight eater than 20ppm by weight CR2032 (coin cell) Eithium Eproduct is in compliance with the Restrictions of H	providente Substances (DelIS)
Additional miormation	dire This (WE This Drin ENE	ctive - 2011/65/EC. HP product is designed to comply with the Waste EE) Directive – 2002/96/EC. product is in compliance with California Propositio king Water and Toxic Enforcement Act of 1986). RGY STAR® certified. EPEAT® 2019 registered wher stration according to IEEE 1680.1-2018 EPEAT®.	electrical and Electronic Equipment on 65 (State of California; Safe on US EPEAT®
	 http://www.epeat.net for more information. Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product contains 72.2% post-consumer recycled plastic (by wt.) according to IEEE 1680.1-2018 standard, criterion 4.2.1.1. This product is 98% recycle-able when properly disposed of at end of life. 		
Packaging Materials	External:	PAPER/Corrugated	1.510 g
	Internal:	PLASTIC/Polyethylene Expanded - EPE	1.520 g
		packaging material contains at least xx% recycled o	
RoHS Compliance	HP Inc. comp restrictions i products wo	ted paper packaging materials contains at least xx lies fully with materials regulations. We were amor n the European Union (EU) Restriction of Hazardous rldwide through the HP GSE. HP has contributed to Europe, as well as China, India, and Vietnam.	ng the first companies to extend the Substances (RoHS) Directive to our
	elimination o	ne RoHS directive and similar laws play an importar of substances of concern. We have supported the in C, BFRs, and certain phthalates—in future RoHS legics products.	clusion of additional substances—
	requirement	voluntary objective to achieve worldwide compliand s for virtually all relevant products by July 2013, ar commitment to include further restricted substanc	d we will continue to extend the
	To obtain a c	opy of the HP RoHS Compliance Statement, see: HF	RoHS position statement.
Material Usage	to the HP Ge	does not contain any of the following substances in neral Specification for the Environment at hp.com/hpinfo/globalcitizenship/environment/sup	
	• Cert	estos ain Azo Colorants ain Brominated Flame Retardants – may not be use	ed as flame retardants in plastics



Features

	Cadmium
	Chlorinated Hydrocarbons
	Chlorinated Paraffins
	Bis(2-Ethylhexyl) phthalate (DEHP)
	Benzyl butyl phthalate (BBP)
	Dibutyl phthalate (DBP)
	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 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)
	Thought fill (1817), Thiphenyt fill (1717), Thought fill oxide (1810)
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.
	Use readily recyclable packaging materials such as paper and corrugated materials. Padves aire and weight of padves as to improve them as patential finding as a second party of the padves as to improve them.
	Reduce size and weight of packages to improve transportation fuel efficiency. Resting a size materials are marked according to ISO 11160 and RIN C130 standards.
	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 0EM customers who integrate and re-sell HP equipment.
HP, Inc. Corporate	For more information about HP's commitment to the environment:
Environmental	
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

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





Features

SERVICE AND SUPPORT

HP EliteDesk 800 G8 Tower Business PC

On-site Warranty⁴¹: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day⁴² service for parts and labor and includes free support 24 x 7⁴³. 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.⁴⁴

- 41. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.
- 42. 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.
 43. 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.
- 44. 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 Business PC

On-site Warranty⁴¹: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day⁴² service for parts and labor and includes free support 24 x 7⁴³. 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.⁴⁴

- 41. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.
- 42. 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.
 43. 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.
- 44. 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 Business PC

On-site Warranty⁴¹: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day⁴² service for parts and labor and includes free support 24 x 7⁴³. 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.⁴⁴

- 41. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.
- 42. 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.

 43. 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.
- 44. 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 Business PC

On-site Warranty⁴¹: Three-year (3-3-3) limited warranty delivers three years of on-site, next business day⁴² service for parts and labor and includes free support 24 x 7⁴³. 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.⁴⁴

- 41. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.
- 42. 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.
 43. 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.
- 44. 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 gamutNTSC 72%Anti-glareYes*Response Time14ms

Default color temperature Warm (6500K)

NOTE*: Actual brightness will be lower with touchscreen or HP Sure View

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 or HP Sure View



^{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 Business 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 up Graphics/Video API Support HE

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 Business 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

 Engine Clock
 1730 MHz

 Memory Clock
 8000 MHz

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

 Memory Type
 256M x 32 GDDR6

 Max. Resolution (HDMI)
 4096x2160@60Hz

 Max. Resolution (DP)
 7680x4320@60Hz

Multi Display Support4 displaysHDCP ComplianceYes

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 Support2 displaysHDCP ComplianceYes

Rear I/O connectors (bracket) HDMI, DPx2

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



Technical Specifications – Graphics

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 Support4 displaysHDCP ComplianceYesRear 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 Clock780 MHzMemory Clock1100 MHzMemory Size (width)2 GB (64-bit)Memory Type256M 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 Business 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 Clock
 780 MHz

 Memory Clock
 1100 MHz

 Memory Size (width)
 1 GB (32-bit)

 Memory Type
 256M x 32 GDDR5

 Max. 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 Size 32 MB
Logical Blocks 976,773,168

 Seek Time
 11 ms (Average)

 Height
 1 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

Capacity 1 TB
Rotational Speed 7,200 rpm
Interface SATA 6 Gb/s
Buffer Size 64 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.) Width (nominal) 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.

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)

Width (nominal) 2.75 in/70 mm (nominal)

Operating Temperature 41° 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</td>Capacity512 GBHeight2.38mmLength80mmWidth22mmInterfacePCIE 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

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

2,000,409,264

Features TRIM: ASPM L1.2

Logical Blocks

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 Segmential 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 Capacity 512 GB 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} Interface PCIE Gen4 **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 22mm **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)

Source Slimline SATA DC power receptacle **Power**

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

Environmental conditions (operating - non-condensing)

Relative Humidity 10% to 80%

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

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)

Stop Time 6 seconds (typical)

Source Slimline SATA DC power receptacle **Power**

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

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

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

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)





NETWORKING AND COMMUNICATIONS

Intel® 1225-LM 2.5 Gigabit Network Connection LOM (non-vPro)		
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	
Performance	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K	
Power consumption	Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW	
Power Management	ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption	
Management Interface	Auto MDI/MDIX Crossover cable detection	
IT Manageability	Wake-on-LAN from 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® I219-LM 1 Gigabit Ne	
Connector	RJ-45
System Interface	PCI (Intel proprietary) + SMBus
Data rates supported	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40) Auto-Negotiation (Automatic Speed Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s
IEEE Compliance	IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3az EEE (Energy Efficient Ethernet)
Performance	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K
Power consumption	Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW
Power Management	ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption
Management Interface	Auto MDI/MDIX Crossover cable detection
IT Manageability	Wake-on-LAN from 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

Connector RJ-45 System Interface PCI (Intel proprietary) + SMBus Data rates supported 10 Mbit/s operation (100BASE-T; IEEE 802.3; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-T; IEEE 802.3 b; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (100BASE-T; IEEE 802.3 b; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3 b; IEEE 802.3 clauses 40) Auto-Negotiation (Automatic Speed Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s IEEE 802.1 p QoS (Quality of Service) Support IEEE 802.3 x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3 x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3 x 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 94 100Mbps Full Run: 450mW 100Mbp Full Run: 450mW 100Mbps Full Run: 450mW	Intel® i210 10/100/1000 NIC	
Data rates supported Data rates supported	Connector	DI 4F
Data rates supported 10 Mbit/s operation (10BASE-T; IEEE 802.3; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-T; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3z EEE (Energy Efficient Ethernet) Performance TCP/IP/IDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K Cable Disconnetion: 25mW 100Mbps Full Run: 1000mW WoL Enable(53/54/5S): 50mW WoL Disable(53/54/5S): 55mW Power Management ACPI compliant — multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface 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		KJ-45
To Molifs operation (10BASE-T; IEEE 802.3 t; IEEE 802.3 clauses 13-14)	System Interface	PCI (Intel proprietary) + SMBus
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 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 Cable Disconnetion: 25mW 100Mps Full Run: 450mW 100Mps Full Run: 450mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW Power Management ACPI compliant — multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface Auto MDI/MDIX Crossover cable detection IT Manageability Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite	Data rates supported	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)
Auto-Negotiation (Automatic Speed Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s 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 802.3x 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 Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 100Mps Full Run: 450mW 100Mpb Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW ACPI compliant — multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Advanced link down power saving for reducing link down power consumption Management Interface 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		100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30)
Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3az EEE (Energy Efficient Ethernet) Performance TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K Power consumption Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 450mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down 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		1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40)
IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3x EEE (Energy Efficient Ethernet) Performance		Auto-Negotiation (Automatic Speed Selection)
IEEE 802.1 q VLAN support IEEE 802.3 Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3 EEE (Energy Efficient Ethernet) TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/54/S5): 50mW WoL Disable(S3/54/S5): 25mW Power Management ACPI compliant — multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface Auto MDI/MDIX Crossover cable detection 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		Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s
IEEE 802.3x Flow Control (IEEE 802.3 clauses 31–32; configurable) IEEE 802.3az EEE (Energy Efficient Ethernet) TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW Power Management ACPI compliant — multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Advanced link down power saving for reducing link down power consumption Management Interface 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	IEEE Compliance	IEEE 802.1p QoS (Quality of Service) Support
IEEE 802.3x Flow Control (IEEE 802.3 clauses 31–32; configurable) IEEE 802.3az EEE (Energy Efficient Ethernet) TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW Power Management ACPI compliant — multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Advanced link down power saving for reducing link down power consumption Management Interface 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		IEEE 802.1q VLAN support
IEEE 802.3az EEE (Energy Efficient Ethernet) TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 100Mbps Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW WoL Disable(S3/S4/S5): 25mW Power Management ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface Auto MDI/MDIX Crossover cable detection 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		
TCP/IP/JDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW ACPI compliant — multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Advanced link down power saving for reducing link down power consumption Management Interface 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		· · · · ·
Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW ACPI compliant — multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface Auto MDI/MDIX Crossover cable detection IT Manageability Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite	Performance	TCD/ID/LIDD Chocksum Offload (configurable)
Large send offload and Giant send offload Receiving Side Scaling Jumbo Frame 9K Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW Power Management ACPI compliant — multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface Auto MDI/MDIX Crossover cable detection IT Manageability Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite		, , , , , , , , , , , , , , , , , , ,
Receiving Side Scaling Jumbo Frame 9K Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW Power Management ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface Auto MDI/MDIX Crossover cable detection IT Manageability Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite		
Jumbo Frame 9K Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW Power Management ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface Auto MDI/MDIX Crossover cable detection IT Manageability Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite		
Cable Disconnetion: 25mW 100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW Power Management ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface Auto MDI/MDIX Crossover cable detection IT Manageability Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite		
100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW Power Management ACPI compliant — multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface Auto MDI/MDIX Crossover cable detection IT Manageability Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite	Daway aayay matian	Julibo Flame 9K
1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW Power Management ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface Auto MDI/MDIX Crossover cable detection IT Manageability Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite	Power consumption	Cable Disconnetion: 25mW
WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW Power Management ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface Auto MDI/MDIX Crossover cable detection IT Manageability Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite		100Mbps Full Run: 450mW
WoL Disable(S3/S4/S5): 25mW ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface Auto MDI/MDIX Crossover cable detection IT Manageability Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite		1000bp Full Run: 1000mW
ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface Auto MDI/MDIX Crossover cable detection IT Manageability Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite		WoL Enable(S3/S4/S5): 50mW
ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Management Interface Auto MDI/MDIX Crossover cable detection 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		WoL Disable(S3/S4/S5): 25mW
Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption Auto MDI/MDIX Crossover cable detection 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	Power	ACPI compliant – multiple power modes
Auto MDI/MDIX Crossover cable detection 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	management	Situation-sensitive features reduce power consumption
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		Advanced link down power saving for reducing link down power consumption
Wake-on-LAN from standby and nibernation (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	Management Interface	Auto MDI/MDIX Crossover cable detection
Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite	IT Manageability	
Comprehensive diagnostic and configuration software suite		PXE 2.1 Remote Boot
		Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30))
Virtual Cable Doctor for Ethernet cable status		Comprehensive diagnostic and configuration software suite
		Virtual Cable Doctor for Ethernet cable status
Security & Manageability Intel® vPro® support with appropriate Intel® chipset components	Security & Manageability	Intel® vPro® support with appropriate Intel® chipset components





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

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	
nteroperability	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	
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) 	
	• 802.11ac: MCS0 ~ MCS9, (155, and 255) (20MHz, 40MHz, ,80MHz & 160MHz)	
Modulation	Direct Sequence Spread Spectrum	
Mouutation	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	
Security	AES-CCMP: 128 bit in hardware	
	802.1x authentication	
	WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.	
	WPA2. 602.17. WPA-PSK, WPA2-PSK, TKIP, drid ALS. 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

		GHz): +10dBm minimum
		(5GHz) : +10dBm minimum
Power Consumption	• Transmit mode: 2	
	• Receive mode: 1.	
	· · ·	80 mW (WLAN Associated)
		V (WLAN unassociated)
	 Connected Stand 	by: 10mW
	 Radio disabled: 8 	
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
		ions and Bluetooth communications
Form Factor		iniCard 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	
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		0 to 10,000 ft (3,048 m)
Altitude	Operating	
LED A salestan	Non-operating	0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Radio 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	Legacy: 0~79 (1 MHz/CH)	
number of Available Chaimets	BLE: 0~39 (2 MHz/CH)	
Data Rates and Throughput	Legacy: 3 Mbps data	a rate; throughput up to 2.17 Mbps
	BLE: 1 Mbps data rate; throughput up to 0.2 Mbps	
		is Connection Oriented links up to 3, 64 kbps, voice channels.
		is Connection Oriented tinks up to 3, 64 kbps, voice channels. ous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or
	864 kbps symmetric	· · · · · · · · · · · · · · · · · · ·
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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 ORIII LOL RK 9UO FNK.





Power Consumption	Peak (Tx) 330 mW
	Peak (Rx) 230 mW
	Selective Suspend 17 mW
Bluetooth® Software Supported Link Topology	Microsoft Windows Bluetooth® Software
Power Management	Microsoft Windows ACPI, and USB Bus Support
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249
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

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

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



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 Deficion block 0. mW
D	Radio disabled 8 mW ACD and DCI France and Single Accounts to the second
Power Management	ACPI and PCI Express compliant power management
B	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





T				
		(VHT80): -59dBm maximum		
		(VHT160): -58.5dBm maximum		
	-	(HE40): -57dBm maximum		
		(HE80): -54dBm maximum		
		(HE160): -53.5dBm maximum		
Antenna type		tenna with spatial diversity, mounted in the display enclosure		
		al band 2.4/5 GHz antennas are provided to the card to support WLAN		
	I I	tions 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 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		to OFF; LED Off – Radio ON		
	LED AMOET Maar	0 011, 225 011 Radio 011		
HP Integrated Module with Blueto	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 MI	Hz/CH)		
	BLE: 0~39 (2 MHz/CH)			
Data Rates and Throughput	Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps			
-ata nates ana i moagnpat	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			
		+9.5 dBm for BR and EDR.		
Power Consumption	Peak (Tx) 330 mW			
	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		5C, Section 15.247 & 15.249		
certifications	ree (47 crity) are 1	5c, Section 13.247 & 13.243		
Power Management Certifications	ETS 300 328, ETS 300 826			
_	Low Voltage Directive IEC950			
	UL, CSA, and CE Ma			
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			
		on Oriented Channels		
	Train Nudging & Int			
		terfacea Jean		





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.

IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n
IEEE 802.11g IEEE 802.11n
IEEE 802.11n
1
IEEE 000 44 · ·
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
Wi-Fi CERTIFIED™ modules
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
• 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)
Direct Sequence Spread Spectrum
BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
• IEEE and Wi-Fi CERTIFIED™ 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		
	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		
·	• Receive mode:2 W		
	• Idle mode (PSP) 180 mW (WLAN Associated)		
	• Idle mode :50 mW (WLAN unassociated)		
	Connected Standby/Modern Standby: 10mW		
	Radio disabled: 8 mW		
Power Management	ACPI and PCI Express compliant power management		
	802.11 compliant power saving mode		
Receiver Sensitivity ³	• 802.11b, 1Mbps: -93.5dBm maximum		
-	• 802.11b, 11Mbps: -84dBm maximum		
	• 802.11a/g, 6Mbps: -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		
Antonna tuno	High efficiency antenna with spatial diversity, mounted in the display enclosure		
Antenna type	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	•		
Dillielisiolis	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		
weight	1. Type 2230: 2.8g 2. Type 126: 1.3g		
Operating Voltage	3.3v +/- 9%		
Operating Voltage Temperature	0perating 14° to 158° F (–10° to 70° C)		
remperature			
11	Non-operating -40° to 176° F (-40° to 80° C)		
Humidity	Operating 10% to 90% (non-condensing)		
Alaiado	Non-operating 5% to 95% (non-condensing)		
Altitude	Operating 0 to 10,000 ft (3,048 m)		
LED A	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

Bluetooth® Specification	4.0/4.1/4.2/5.0/5.1/5.2 Compliant		
Frequency Band	2402 to 2480 MHz		
Number of Available Channels	Legacy: 0~79 (1 MHz/CH) BLE: 0~39 (2 MHz/CH)		
Data Rates and Throughput	Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps		
	BLE: 1 Mbps data rate; throughput up to 0.2 Mbps		
	Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)		
Transmit Power	The Bluetooth® component shall operate as a Class II Bluetooth® device with a maximum transmit power of +4 dBm for BR and EDR.		
Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Selective Suspend 17 mW		
Bluetooth® Software Supported Link Topology	Microsoft Windows Bluetooth® Software		
Power Management	Microsoft Windows ACPI, and USB Bus Support		
Certifications	FCC (47 CFR) Part 15C, Section 15.247 & 15.249		
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		



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, U	Jkraine, India BIS, KCC, RCM, BSMI, VCCI		
Ergonomic compliance	TUVGS	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	10 million keystrokes (Life tester)	
	Switch type	Contamination-resistant switch membrane	
	Key-leveling mechanisms	For all double-wide and greater-length keys	
	Cable length	6 ft. (1.8 m)	
	Microsoft PC 99 - 2001	Mechanically compliant	
	Acoustics	43-dBA maximum sound pressure level	
	Operating temperature	50° to 122° F (10° to 50° C)	
	Non-operating temperature	-22° to 140° F (-30° to 60° C)	
	Operating humidity	10% to 90% (non-condensing at ambient)	
	Non-operating humidity	20% to 80% (non-condensing at ambient)	
Environmental	Operating shock	40 g, six surfaces	
	Non-operating shock	80 g, six surfaces	
	Operating vibration	2-g peak acceleration	
	Non-operating vibration	4-g peak acceleration	
	Drop (out of box)	26 in (66 cm) on carpet, six-drop sequence	
	Drop (in box)	30 in (76.2 cm) on concrete, 16-drop sequence	
Approvals	UL, FCC, CE Mark, TUV GS, VCCI,	BSMI, RCM, KCC	
Ergonomic compliance	TUVGS		
Kit contents	Keyboard, QSP		
Warranty Card	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	USB	
	Resolution	1000 DPI	
	Sensor Optical Red Sensor		
Tracking speed	Tracking acceleration 8G(max), 1G=9.8m/s2		
	Cable length	Cable length 6 ft. (1.8 m)	
	Color	Color Jack Black	
Regulatory approvals	Compliant	FCC, ICES, CULus, CE, GS, EAC, Ukraine. India BIS, KCC, RCM, BSMI, 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	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	USB		
Mashaniasi	Resolution	800 DPI sensitivity		
Mechanical	Buttons	Two primary buttons and clickable scroll wheel		





Technical Specifications – Audio/Multimedia

AUDIO/MULTIMEDIA

HP EliteDesk 800 G8 Tower Business 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

they make to be controlled in the change of the controlled in the dudic control pariet to drow independent of the controlled in the change of the change o

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 Business 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 Business 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 Business 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 Business 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 Business 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 Business PC (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)	PLUS Platinum 90/92/89% efficient at 20/50/100% load (115V)	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
	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: 2102)	Less than 500 microamps of leakage current at 120 Vac with the ground wire disconnected, as required for Non-patient Electrical Appliances and Equipment used in a patient care facility or that contact patients in normal use. Per section 10.3.5.1. Less than 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	Less than 500 microamps of leakage current at 120 Vac with the ground wire disconnected, as required for Non-patient Electrical Appliances and Equipment used in a patient care facility or that contact patients in normal use. Per section 10.3.5.1. Less than 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	Less than 500 microamps of leakage current at 120 Vac with the ground wire disconnected, as required for Non-patient Electrical Appliances and Equipment used in a patient care facility or that contact patients in normal use. Per section 10.3.5.1. Less than 100 microamps of leakage current at 120 Vac with the ground wire intact with normal polarity, as required for Non-patient Electrical Appliances	Less than 500 microamps of leakage current at 120 Vac with the ground wire disconnected, as required for Non- patient Electrical Appliances and Equipment used in a patient care facility or that contact patients in normal use. Per section 10.3.5.1. Less than 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 supply	Internal power supply	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

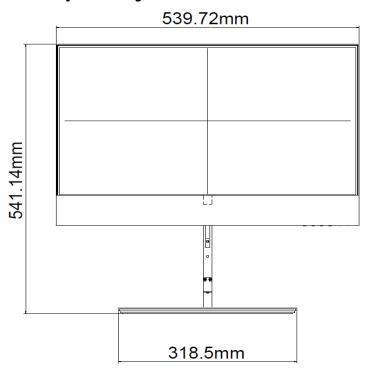
	DM	SFF	TWR	AiO
Chassis (W x D x H)	6.97 x 6.89 x 1.35 in 177 x 175 x 34 mm	13.3 x 12.13 x 3.94 in 338 x 308 x 100 mm	6.61 x 12.13 x 14.57 in 168 x 308 x 370 mm	See table below.
System Volume	63.4 cu in 1.05L	63.4 cu in 10.4 L	1168 cu in 19.14 L	See table below.
System Weight	3.13 lb 1.42 kg	13.5 lb 6.13 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

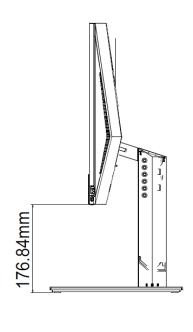


Technical Specifications – Weights and Dimensions

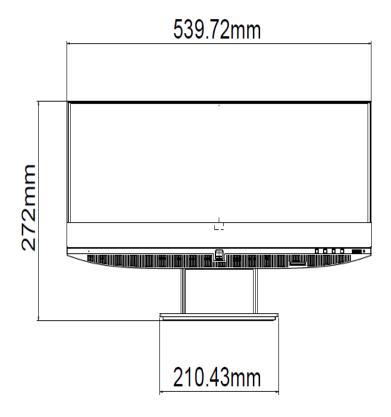
STANDS AND DIMENSIONS

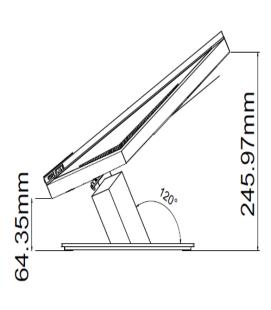
HP EliteOne G6 AIO Adjustable Height Stand - 23.8"





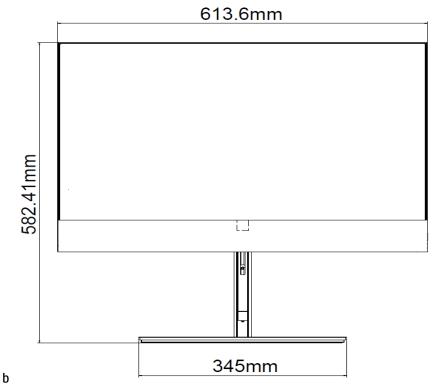
HP EliteOne G6 AIO Recline Stand - 23.8"

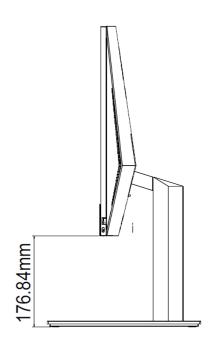




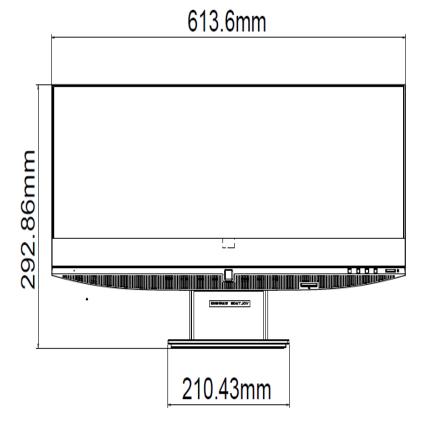
Technical Specifications – Weights and Dimensions

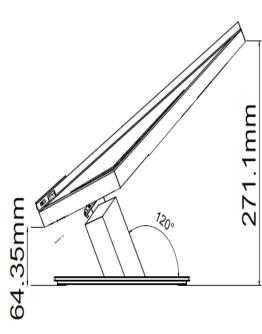
HP EliteOne G6 AIO Adjustable Height Stand - 27"





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"

-	.,	Recline Stand 628 x 186 x 635 mm
,		Recline Stand 1180 x 874 x 2060 mm





Technical Specifications – Weights and Dimensions

Weight with Touch Panel - 27"

Product Weight Unboxed	Without Stand 19.56 lbs. 8.87 kg	Adjustable Height Stand 25.40 lbs. 11.52 kg	Recline Stand 23.26 lbs. 10.55 Kg
Shipping Weight Boxed	Without Stand 25.46 lbs. 11.55 kg	Adjustable Height Stand 31.31 lbs. 14.2 kg	Recline Stand 29.17 lbs. 13.23 kg
Shipping Weight Pallet (18 units)	Without Stand 496.98 lbs. 225.9 kg	Adjustable Height Stand 601.92 lbs. 273.6 kg	Recline Stand 563.5 lbs. 256.14 kg

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

Dimensions (W \times D \times H) – 27"

613.6 x 405.57 x 58.7 mm	Stand (-5 ~ 20) degrees	Recline Stand Stand (30 ~ 60) degrees 613.6 x 420.71 x 210.68 mm	
613.6 x 405.57 x 59.07 mm	Stand (-5 ~ 20) degrees	Recline Stand Stand (30 ~ 60) degrees 613.6 x 420.71 x 211.05 mm	

Shipping Dimensions – 27"

	742 x 237 x 640 mm	-,	Recline Stand 742 x 237 x 640 mm
- '''		-,	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



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)				<u>7DB38AA</u>
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	Х	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	X	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	Х	X	QK555AA
HP 9.5mm Tower DVD-Writer	Х	X	1CA52AA

Input Devices	<u>DM</u>	<u>SFF</u>	TWR	<u>AiO</u>	<u>Part</u> <u>Number</u>
HP Desktop Wired 320K Keyboard	X	Х	Х	Х	9SR37AA
HP 125 Wired Keyboard	X	Х	Х	Х	266C9AA
HP 225 Antimicrobial Wired Mouse and Keyboard Combo	X	Х	Х	Х	286K3AA
HP 225 Wired Mouse and Keyboard Combo	X	Х	Х	Х	286J4AA
HP 125 Wired Mouse	X	Х	Х	Х	265A9AA
HP 128 Laser Wired Mouse	X	Х	Х	Х	265D9AA
HP Wired Desktop 320K Keyboard	X	Х	X	Х	9SR37AA
HP Wired Desktop 320M Mouse	X	Х	Х	Х	9VA80AA
HP Wired Desktop 320MK Mouse and Keyboard	X	Х	X	Х	9SR36AA
HP USB Business Slim CCID SmartCard Keyboard	X	Х	Х	Х	Z9H48AA
HP USB Keyboard and Mouse Healthcare Edition	X	Х	X	Х	1VD81AA
HP USB Premium Keyboard	X	Х	X	Х	Z9N40AA
HP USB PS/2 Washable Keyboard & Mouse	X	Х	Х	Х	BU207AA
HP Wireless Business Slim Keyboard and Mouse	X	Х	X	Х	T6L04AA
HP Wireless Premium Keyboard	X	Х	Х	Х	Z9N41AA
HP PS/2 Business Slim Keyboard		Х	X		N3R86AA
HP USB Fingerprint Mouse	X	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> <u>Number</u>
HP 4GB DDR4-3200 UDIMM		Х	X		13L78AA
HP 8GB DDR4-3200 UDIMM		Х	X		13L76AA
HP 16GB DDR4-3200 UDIMM		Х	X		13L74AA
HP 32GB DDR4-3200 UDIMM		Х	X		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	X	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		X	X	X	T1A64AA
HP Keyed Cable Lock 10mm	Х	Х	Х	Х	T1A62AA
HP Master Keyed Cable Lock 10mm	X	X	X	X	T1A63AA

Stands and Accessories	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	Part Number
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" Height Adjustable Stand				X	13L63AA
HP EliteOne 800 G6 27" Recline Stand				X	13L64AA

I/O Devices	<u>DM</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	<u>Part Number</u>
HP DisplayPort Port Flex IO v2	X	X	Х		13L54AA
HP HDMI Port Flex IO v2	Х	Х	Х		13L55AA
HP Type-C® USB 3.1 Gen2 Port Flex IO v2		X	Х		<u>13L59AA</u>
HP USB 3.1 Gen1 x2 Module Flex IO v2	X (Not Available on 95W and discrete GPU SKUs)	Х	х		13L58AA
HP VGA Port Flex IO v2	X	X	Х		<u>13L53AA</u>
HP Serial Port Flex IO v2	X (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		X	X		N1M40AA
HP Serial/PS/2 Adapter Kit (in PCIe slot)		X	Х		1VD82AA
HP USB to Serial Port Adapter	Х	X	Х		J7B60AA
HP USB-C to Display Port Adapter	Х	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	X	X		<u>T6F94AA</u>
HP DisplayPort Cable Kit	Х	Х	х		VN567AA



Technical Specifications – After Market Options

HP DisplayPort To VGA Adapter	X	Х	Х	<u>AS615AA</u>
HP DisplayPort To DVI-D Adapter	X	Х	Х	<u>FH973AA</u>

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		Х	Х		<u>TBD</u>
Intel Wi-Fi 6 AX200 ax 2x2 + BT5 non- vPro		X	Х		

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	X	Х	х	6VF55AA



HP EliteDesk 800 G8 and HP EliteOne 800 G8 Desktops PCs

QuickSpecs

Change Log

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Date	Version History	Action	Description of Change	
	From v1 to v2			
	From v2 to v3			
	From v3 to v4			
	From v4 to v5			
	From v5 to v6			
	From v6 to v7			
	From v6 to v7			
	From v8 to v9			
	From v9 to v10			

