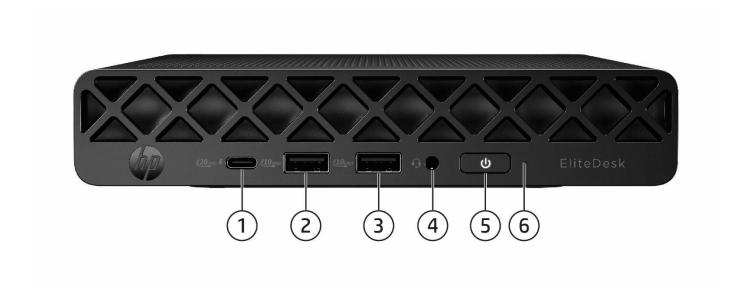
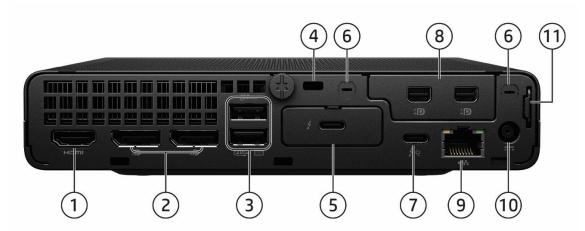
HP EliteDesk 8 Mini G1i Desktop AI PC



- 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 10Gbps signaling rate port
- 4. Combo Audio Jack with CTIA and OMTP headset support
- 5. Dual-state power button
- 6. SSD activity light



HP EliteDesk 8 Mini G1i Desktop AI PC



- 1. HDMI port 2.1TMDS 6Gbps
- 2. (2) Dual-Mode DisplayPort™ 2.1 HBR3 (DP++)
- (2) Type-A SuperSpeed USB 10Gbps signaling rate port (Supporting wake from S4/S5 with keyboard/mouse connected and enabled in BIOS)
- 4. Standard cable lock slot (10 mm)
- 5. (1) Flex Port 1, choice of:
 - HDMI 2.1
- Fiber NIC 1Gbps¹
- VGA
- Serial²
- DisplayPort™ 2.1
- Intel® I226V 2.5 Gigabit Network Connection LOM (nonvPro)
- Dual Type A SuperSpeed USB 5Gbps signaling rate port
- Dual USB Type C 20Gbps
- Thunderbolt 4.0 (shown in the image)

- 6. External WLAN antenna opening³
- 7. TBT4 with Alt mode and 100W Power in
- 8. (1) Flex Port 2³, choice of:
 - Serial
 - HP video port extender
 - Dual Type-A SuperSpeed USB 5Gbps signaling rate port (shown in the image)
- 9. RJ45 network connector
- 10. Power connector
- 11. Retractable Padlock loop

Not shown

Slots

- (1) Internal M.2 2230 connector for WLAN
- (3) Internal M.2 SSD storage 2280 connector4

Mounting

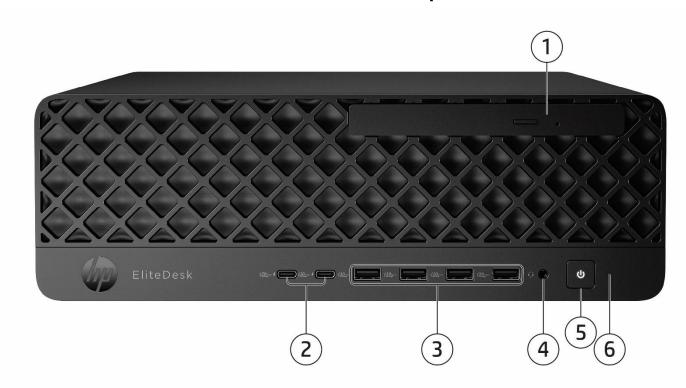
Support for

- Dual VESA Sleeve V4 Standalone
- Ouick Release Bracket
- B200/B300/B500/B550/B560/B600 Mounting bracket
- Integrated Work Center Stand
- HP Single Monitor Arm
- 1. Fiber NIC 1Gbps cards would not be available in some selected Europe countries and Korea. And does not support PXE boot.
- 2. Sold separately or as an optional feature Not sold in every region.
- 3. Must be configured at time of purchase.
- 4. 3rd SSD must be configured at the time of purchase

NOTE: SPO (Single Power On) feature only available when platform config in 35W CPU with Thunderbolt cable plugged in native Thunderbolt port via selected HP series 7 pro monitors or HP series 5 pro monitors.

NOTE: Thunderbolt flex module does not support SPO (Single Power On) feature.

HP EliteDesk 8 SFF G1i Desktop AI PC

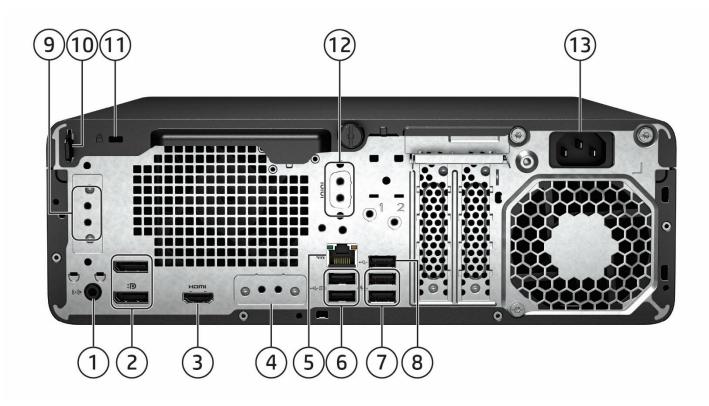


- 1. Slim optical drive (optional)
- 2. (2) Type-C® SuperSpeed USB 20Gbps signaling rate port (charge support up to 5V/3A)
- 3. (4) Type A SuperSpeed USB 10Gbps signaling rate port
- 4. Combo Audio Jack with CTIA and OMTP headset support
- 5. Dual-state power button
- 6. Hard drive activity light

Not shown

- (1) PCI Express Gen4 x16
- (1) PCI Express Gen4 x4
- (4) M.2 (1 as M.2 2230 socket for WLAN/Bluetooth® and 3 as M.2 2280 socket for storage, slot2 toolless)

HP EliteDesk 8 SFF G1i Desktop AI PC



- 1. Audio line-out jack (supports line-in re-tasking)
- (2) Dual-Mode DisplayPort™ 2.1 HBR3 (DP++) 2.
- 3. HDMI port 2.1
- Flex port, choice of: 4.
 - DisplayPort™ 2.1
 - HDMI 2.1
 - VGA
 - Fiber NIC 1Gbps
 - Thunderbolt™ 4
- Serial
- Dual Type-A SuperSpeed USB 5Gbps signaling rate port
- Dual Type-C SuperSpeed USB 10Gbps signaling rate port
- USB-C® SuperSpeed 10Gbps signaling rate port (Alt Mode DP 1.4 with 15W output)
- 5. RJ45 network connector
- 6. (2) Type A Hi-Speed USB 480 Mbps signaling rate port with wake from S4/S5

- 7. (2) Type A SuperSpeed USB 5Gbps signaling rate port
- (1) Type-A Hi-Speed USB 480Mbps 8.
- 9. Flex port 2, choice of:
 - Dual Type-A SuperSpeed USB 5Gbps signaling rate port
 - Serial
- 10. Padlock loop
- 11. Standard cable lock slot
- 12. Serial port (optional)
- 13. Power cord connector

Not shown

Optional Ports

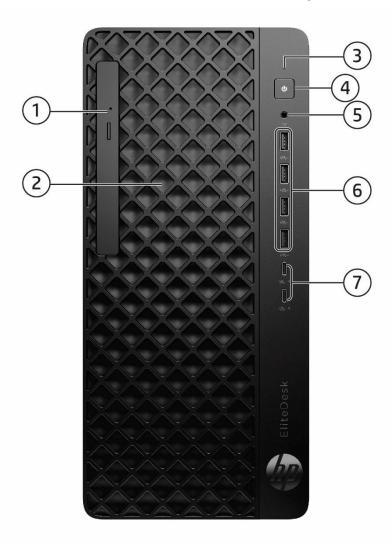
Optional Parallel port1 Optional 4 Serial Port PCIe Card¹

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

- (1) 3.5" internal storage drive bay
- (1) Slim optical drive bay (ODD or removable storage)



HP EliteDesk 8 Tower G1i / G1i E Desktop AI PC



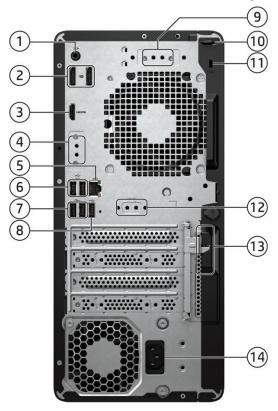
- 1. Slim optical drive bay (optional)
- 2. Slim optical bay for M.2 SSD (optional)
- 3. Hard drive activity light
- 4. Dual-state power button

- 5. Combo Audio Jack with CTIA and OMTP headset support
- 6. (4) Type-A SuperSpeed USB 10Gbps signaling rate port
- 7. (2) Type-C SuperSpeed USB 20Gps (charge support 15W)

Not shown

- (1) PCI Express Gen 5 x16
- (2) PCI Express Gen3 x1 (1) PCI Express Gen4 x 16(wired as x4)
- (4) M.2 (1 as M.2 2230 socket for WLAN/Bluetooth® and 3 as M.2 2280 socket for storage, slot2 toolless)

HP EliteDesk 8 Tower G1i / G1i E Desktop AI PC



- 1. Audio line-out jack (supports line-in re-tasking)
- 2. (2) Dual-Mode DisplayPort™ 2.1 (DP++)
- 3. HDMI port 2.1
- 4. Flex port, choice of:
 - DisplayPort™ 2.1
 - HDMI 2.1
 - VGA
 - Fiber NIC 1Gbps
 - Thunderbolt[™] 4
- Dual Type-A SuperSpeed USB 5Gbps signaling rate port.
- Serial
- Dual Type-C SuperSpeed USB 10Gbps signaling rate port
- USB-C® SuperSpeed USB 10Gbps signaling rate port (USB-C® option has alt mode DisplayPort™ 1.4 and 15W output)
- 5. RJ-45 (network) Jack

- 6. (2) Type A Hi-Speed USB 480 Mbps signaling rate port with wake from S4/S5
- 7. (2) Type A SuperSpeed USB 5Gbps signaling rate port
- 8. (1) Type-A Hi-Speed USB 480Mbps
- 9. Flex Port 2, choice of:
 - Dual Type-A SuperSpeed USB 5Gbps signaling rate port
 - Serial
- 10. Padlock loop
- 11. Standard cable lock slot
- 12. Serial port (optional)
- 13. Integrated keyboard/mouse wire hoop
- 14 Power cord connector

Not shown

Optional ports

Optional Parallel port¹
Optional 4 Serial Port PCIe Card¹

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

Bavs

- (2) 3.5" internal storage drive bay
- (2) Slim optical drive bay (ODD and removable storage)



HP EliteStudio 8 All-in-One G1i 23.8 / 27-inch Desktop AI PC

Touch/Non-Touch



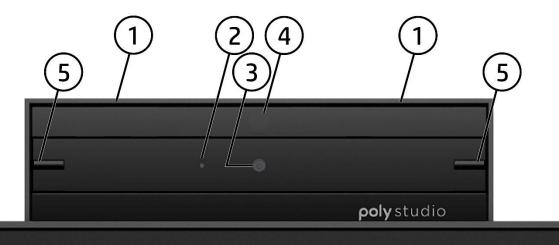
- 1. Pull-up webcam (optional)
- 2. Speakers
- 3. Type-C® SuperSpeed USB 20Gbps signaling rate port (charge support up to 15W)
- 4. Combo Audio Jack with CTIA and OMTP headset support
- 5. Type-A SuperSpeed USB 10Gbps signaling rate port
- 6. Power Activity Light
- 7. Power Button



HP EliteStudio 8 All-in-One G1i 23.8 / 27-inch Desktop AI PC

Touch/Non-Touch

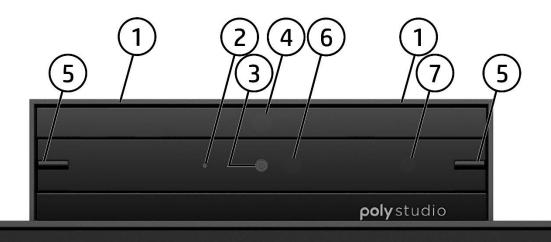
5MP Webcam with High SNR micorphones+ACS Sensor



- 1. Dual Microphones
- 2. Webcam Light
- 3. 5MP Webcam

- 4. Ambient Color Sensor
- 5. Adjustable Tilt

5MP Webcam + IR Sensor + High SNR micorphones + ACS Sensor

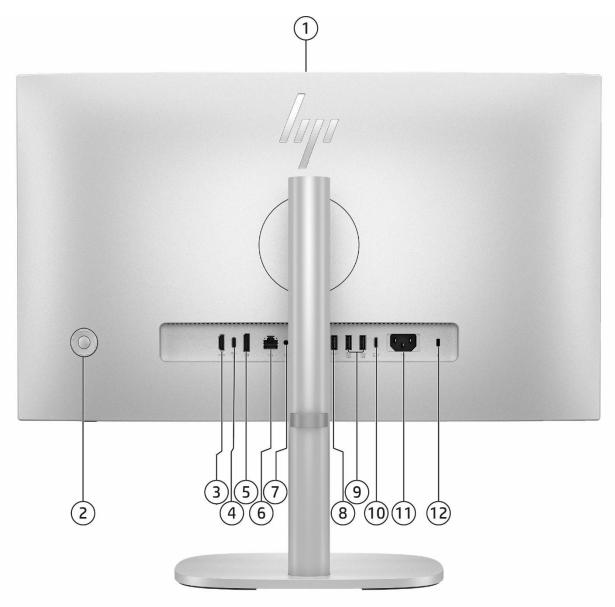


- 1. Dual Microphones
- 2. Webcam Light
- 3. 5MP Webcam
- 4. Ambient Color Sensor

- 5. Adjustable Tilt
- 6. IR Sensor
- 7. IR Light

HP EliteStudio 8 All-in-One G1i 23.8 / 27-inch Desktop AI PC

Touch/Non-Touch



- 1. Pull-up Camera (Optional)
- 2. OSD
- 3. HDMI 2.1 Output
- 4. USB-C SuperSpeed 10Gbps with DisplayPort Alt Mode
- 5. DisplayPort 2.1
- 6. RJ-45 Network Adapter

- 7. Audio Line Out
- 8. Type-A SuperSpeed USB 10Gbps signaling rate port
- 9. (2) Type A SuperSpeed USB 5Gbps signaling rate port
- 10. Thunderbolt 4 40Gbps with 100W Power Delivery
- 11. Power cord connector
- 12. Standard Cable Lock Slot



Features

PRODUCT NAME

HP EliteDesk 8 Mini G1i Desktop AI PC
HP EliteDesk 8 SFF G1i Desktop AI PC
HP EliteDesk 8 Tower G1i Desktop AI PC
HP EliteDesk 8 Tower G1i E Desktop AI PC
HP EliteStudio 8 All-in-One G1i 23.8-inch Desktop AI PC
HP EliteStudio 8 All-in-One G1i 27-inch Desktop AI PC

OPERATING SYSTEM

Preinstalled Windows 11 Pro1

Windows 11 Pro Education¹

Windows 11 Home - HP recommends Windows 11 Pro for business¹

Windows 11 Home Single Language - HP recommends Windows 11 Pro for business¹

Windows 11 Pro (Windows 11 Enterprise or Windows 10 Enterprise available with a Volume Licensing

Agreement)¹ FreeDOS

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

CHIPSET

	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u> AiO</u>
Intel® Q870	<u>x</u>	<u>x</u>	<u>x</u>	<u>x</u>



Features

PROCESSORS

Intel® Core Ultra Processor	<u>Mini</u>	SFF	TWR	<u>AiO</u>
Intel® Core™ Ultra 9-285 Processor with Intel® UHD Graphics 4Xe (2.5GHz, up to 5.6GHz with Intel® Turbo Boost¹ Max Technology and Intel® Thermal Velocity Boost, 36MB L3 Cache, 24 Cores, 24 Threads) 65W, Supports Intel® vPro® Technology²	х	х	х	х
Intel® Core™ Ultra 9-285T Processor with Intel® UHD Graphics 4X° (1.4GHz, up to 5.4GHz with Intel® Turbo Boost¹ Max Technology, 36MB L3 Cache, 24 Cores, 24 Threads) 35W, Supports Intel® vPro® Technology²	х			
Intel® Core™ Ultra 7-265 Processor with Intel® UHD Graphics 4X° (2.4GHz, up to 5.3GHz with Intel® Turbo Boost¹ Max Technology, 30MB L3 Cache, 20 Cores, 20 Threads) 65W, Supports Intel® vPro® Technology²	X	x	X	x
Intel® Core™ Ultra 7-265T Processor with Intel® UHD Graphics 4Xe (1.4GHz, up to 5.4GHz with Intel® Turbo Boost¹ Max Technology, 36MB L3 Cache, 24 Cores, 20 Threads) 35W, Supports Intel® vPro® Technology²	х			
Intel® Core™ Ultra 5-245 Processor with Intel® UHD Graphics 4Xe (3.5GHz, up to 5.1GHz, 24MB L3 Cache, 14 Cores, 14 Threads) 65W, Supports Intel® vPro® Technology²	х	x	х	x
Intel® Core™ Ultra 5-245T Processor with Intel® UHD Graphics 4Xe (2.2GHz, up to 5.1GHz, 24MB L3 Cache, 14 Cores, 14 Threads) 35W, Supports Intel® vPro® Technology²	Х			
Intel® Core™ Ultra 5-235 Processor with Intel® UHD Graphics 3Xe (3.4GHz, up to 5GHz, 24MB L3 Cache, 14 Cores, 14 Threads) 65W, Supports Intel® vPro® Technology²	х	x	х	x
Intel® Core™ Ultra 5-235T Processor with Intel® UHD Graphics 3Xº (2.2GHz, up to 5GHz, 24MB L3 Cache, 14 Cores, 14 Threads) 35W, Supports Intel® vPro® Technology²	Х			
Intel® Core™ Ultra 5-225 Processor with Intel® UHD Graphics 2Xe (3.3GHz, up to 4.9GHz, 20MB L3 Cache, 10 Cores, 10 Threads) 65W	Х	х	х	Х
Intel® Core™ Ultra 5-225T Processor with Intel® UHD Graphics 2Xº (2.5GHz, up to 4.9GHz, 20MB L3 Cache, 10 Cores, 10 Threads) 35W	X			

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

NOTE: All processors are embedded with 13 TOPs NPU.



^{2.} Intel vPro® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See http://intel.com/vpro.

Features

GRAPHICS

Integrated Intel® Graphics	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® UHD Graphics 4Xe3	X	X	X	X
Intel® UHD Graphics 3Xe3	Х	X	Х	X
Intel® UHD Graphics 2Xe3	Х	X	X	X

Optional Discrete Graphics Solutions	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
NVIDIA® GeForce® RTX 3050 8GB GDDR6 Graphics card ^{1,5}			X	
NVIDIA® A400 4GB GDDR6 Graphics card 4,5		X	X	
NVIDIA® A1000 8GB GDDR6 Graphics card 4,5		X		
Intel® Arc™ A380 6GB GDDR6 Graphics card ⁵			X	
AMD Radeon™ RX 6300 2GB GDDR6 Graphics card		X	X	

^{1.} Not available with 280W power supply.

^{5.} Support up to 8 displays via native video ports, a configurable Flex IO port and selected discrete graphics on TWR & SFF.

Adapters and Cables	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP DisplayPort™ Cable	Х	X	Х	X
HP DisplayPort™ to DVI-D Adapter		X	Х	X
HP DisplayPort™ to VGA Adapter	X	X	X	X
HP USB to Serial Port Adapter	Х	X	X	X
HP USB-C® to HDMI Adapter	X	X	Х	X
HP USB-C® to DisplayPort™ Adapter G2	Х	X	X	X
HP 1.8m HDMI Cable	X	X	X	X
1m Thunderbolt 4™ Cable (100W power delivery)	Х			X

^{2.} Support up to 4 displays via native video ports on Desktop Mini with 35W processors. Support up to 6 out of 7 display output via native video ports, 1 optional video port flex IO and HP Video Port Extender flex module on Desktop Mini.

^{3.} Xe is Intel LPG Graphics Architecture, one Xe-core represents 16EU.

^{4.} Not available with 180W power supply.

TWR

X

X

X

Ai0

X

X

X

QuickSpecs

3.5 inch SATA Hard Disk Drives (HDD)

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

256GB M.2 2280 PCIe OPAL2 NVMe SSD

1TB* 7200RPM SATA HDD

Features

STORAGE

NOTE: Starting November 1, 2023, HP PCs with Windows require Windows to be installed on SSD.

HDD can only be configured as additional data drives and not as the boot drive.

NOTE: SATA RAID and NVME RAID can be supported simultaneously when customers configure on their own.

2TB* 7200RPM SATA HDD		X	Х	
M.2 PCIe NVMe Solid State Drives (SSD) ¹	Mini	SFF	TWR	<u>AiO</u>
11.2 I CIE ITATIE JUliu Julie Dilves (JJD)	<u></u>	<u> </u>	<u> </u>	<u> </u>
256GB M.2 2280 PCIe NVMe SSD	Х	X	X	X
512GB M.2 2280 PCIe NVMe SSD	Х	X	X	X
1TB M.2 2280 PCIe NVMe SSD	X	Х	X	X
512GB M.2 2280 PCIe NVMe Three Layer Cell SSD	X	X	X	X
1TB M.2 2280 PCIe NVMe Three Layer Cell SSD	Х	X	Х	X

Mini

X

X

X

X

X

X

512GB M.2 2280 PCIe NVMe Self Encrypted OPAL2 Three Layer Cell SSD²

Optical Disc Drives	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP 9.5mm Slim DVD-ROM Drive ¹		X	X	
HP 9.5mm Slim DVD Writer Drive ¹		X	X	

^{1.} HD-DVD disks cannot be played on this drive. No support for DVD-RAM. Actual speeds may vary. Don't copy copyright-protected materials. Double Layer discs can store more data than single layer discs. Discs burned with this drive may not be compatible with many existing single-layer DVD drives and players.



^{1.} 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) of system disk is reserved for the system recovery software.

^{2.} Storage DriveLock does not work with Self Encrypting or Optane based storage.

Features

MEMORY

Memory Type	<u>Mini</u>	SFF*	TWR*	<u>AiO</u>
DDR5-5600 (Transfer rates up to 5600 MT/s), Max 64 GB, 2 SODIMM	Х			X
DDR5-5600 (Transfer rates up to 5600 MT/s), Max 128 GB, 4 UDIMM		Х	Х	

^{*}NOTE: Memory modules support data transfer rates up to 5600 MT/s; system speed should follow Intel's design guideline. Actual data rate is determined by the system configuration.

^{*}NOTE: All memory slots are customer accessible.

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



^{*}NOTE: System architecture design is 2 DIMMS per channel and the population starts from the furthest memory slot from the processor.

^{*}NOTE: Symmetric configurations are required for the 2 DIMMs within the same memory channel.

^{*}NOTE: To achieve optimal memory speed, HP strongly recommends using identical memory modules (e.g., same capacity, same part number and from the same supplier within the same memory channel.

Features

NETWORKING/COMMUNICATIONS

Ethernet (RJ-45)	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Intel® I219-LM 1 Gigabit Network Connection LOM (vPro)	Х	Х	Х	X
Intel I226-T1 2.5GbE Ethernet Network Adapter		Х	X	
Intel® I226V 2.5 Gigabit Network Connection LOM	Х			

Wi	reless	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Ī	ntel Wi-Fi 7 BE200 +Bluetooth® 5.4 Wireless Card non-vPro	Х	X	X	X
I	ntel Wi-Fi 7 BE200 +Bluetooth® 5.4 Wireless Card vPro	Х	X	X	X
	Realtek RTL8852CE 802.11ax 2x2 Wi-Fi 6E + Bluetooth® 5.3 Wireless Card 802.11ax 2x2, supporting gigabit data rate)	х	х	х	х

NOTE: Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows 11 OS, compatible processor, and separately purchased Wi-Fi 7 router to support backwards compatibility with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported.

NOTE: WiFi-6E might be restricted by local regulation and only available in countries where Wi-Fi 6E is supported. HP will enable countries in the future by upgrading BIOS in default as the technology becomes available in more regions.

NOTE: External Antenna is supported on Desktop Mini to strengthen the quality of networking and only available at the time of purchase.

KEYBOARDS AND POINTING DEVICES

Ceyboards	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP USB Business Slim v2 Wired Smart Card CCID Keyboard	Х	X	X	Х
HP 125 v2 AntiMicrobial Wired Keyboard (China Only)	X	X	X	Х
HP 320K v2 Wired Desktop Keyboard	Х	X	Х	Х
HP 725 Multi-Device Rechargeable Wireless Keyboard	Х	Х	Х	Х
HP 125 v2 Wired Keyboard	X	Х	Х	Х

Keyboard and Mouse Combo		<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP 725 Multi-Device Rechargeable Wireless Keyboard and Mouse Combo	X	X	X	X

NOTE: V2 keyboards contain copilot* shortcut key.

*Copilot in Windows requires Windows 11. Some features require an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Microsoft in Windows is not available, the Copilot key will lead to the Bing search engine. Use of Recall requires customer authentication using Windows Hello Enhanced Sign in Security (ESS) which requires a fingerprint reader or facial recognition camera and may not be supported on all platforms. See http://aka.ms/WindowsAlFeatures.

Mouse	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
HP Wired Desktop 320M Mouse	Х	Х	X	X
HP Wired 125 Antimicrobial Mouse (China Only)	Х	Х	X	X
HP Wired 128 Laser Mouse	Х	X	Х	X
HP 725 Multi-Device Rechargeable Wireless Mouse	Х	Х	Х	X
HP Wired 125 Mouse	Х	Х	Х	X



Features

SECURITY

	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
TPM 2.0 endpoint security controller (Infineon SLB9672/Nuvoton NPCT760HABYX). Common Criteria EAL4+ Certified. FIPS 140-2 Level 2 Certified.	х	х	х	х
Solenoid Lock & Intrusion Sensor (optional)		X	Х	
Intrusion Sensor for Mini/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)	х	x	х
Support for chassis padlocks devices	X	X	Х	
SATA port disablement (via BIOS)	X	X	Х	
Serial, USB enable / disable (via BIOS)	Х	Х	Х	Х
Serial, parallel, USB enable / disable (via BIOS)	X	X	Х	X
Optional USB Port Disable at factory (user configurable via BIOS)	X	X	Х	X
Removable media write/boot control	X	X	Х	X
Power-on password (via BIOS)	X	X	Х	X
Setup password (via BIOS)	X	X	X	X



Features

PORTS

I/O Ports – Internal Ports	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
PCI Express 5.0 x16		1	1	
PCI Express 4.0 x4		1		
PCI Express 3.0 x16 (wired as x4)			1	
PCI Express 3.0 x1			2	
SATA 3.0 (6Gbps) port		2	3	
Internal shared 3 rd SSD/dGPU connector	1			
M.2 PCle	(1) M.2 PCIe 3 x1 2230 (for WLAN) (2) M.2 PCIe 4 x 4 2280 (for storage) (1) M.2 PCIe 4x4 2280 (only available with 3 rd SSD expansion kit)	(1) M.2 PCIe 3 x1 2230 (for WLAN) (3) M.2 PCIe 4 x4 2280 (for storage)	(1) M.2 PCle 3 x1 2230 (for WLAN) (3) M.2 PCle 4 x4 2280 (for storage)	(1) M.2 WLAN+ Bluetooth Combo; (2) M.2 2280 for NVME SSD storage. attached to CPU PCIe Gen 4.0,

NOTE: M.2 SSD attached to CPU is PCIe Gen 4, the other two M.2 are PCIe Gen 3 (AIO).

NOTE: For Mini configured with 3rd M.2 Storage, can't be configured with discrete graphics. **NOTE**: For Mini 3rd SSD is only available on selected base units at the time of purchase.

NOTE: PCI slots for TWR are full height and SFF are low profile.

Standard User Accessible Ports	<u>Mini</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		2 (rear)	2 (rear)	2 (rear)
Type-A SuperSpeed USB 10 Gbps signaling rate port	2(front) 2 (rear)	4 (front)	4 (front)	1 (rear) 1 (down facing)
Type-C [®] SuperSpeed USB 10Gbps signaling rate port (USB-C [®] option has alt mode DisplayPort™ 1.4)				1 (rear)
Type-C [®] SuperSpeed USB 20Gbps signaling rate port (charge supports up to 15W)	1 (front)	2 (front)	2 (front)	1 (down facing)
Thunderbolt™ 4.0 with Alt Mode DisplayPort™ and 100W Power intake	1 (rear)			1 (rear)

Features

Video ¹	2 DisplayPort™ 2.1 HBR3 1 HDMI 2.1 1 Thunderbot™ 4.0 with Alt Mode DisplayPort™	2 DisplayPort™ 2.1 HBR3 1 HDMI 2.1	2 DisplayPort™ 2.1 HBR3 1 HDMI 2.1	1 DisplayPort™ 2.1 (rear) 1 USB Type-C® with alt mode display (rear) 1 Thunderbot™ 4.0 with Alt Mode DisplayPort™ (Rear) 1 HDMI 2.1
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- in/Line out (rear)	1 Universal Audio Jack with CTIA and OMPT headset support (front); 1 Audio-Line- in/Line out (rear)	1 CTIA/OMTP UAJ (down facing) 1 Audio Line Out(rear)

^{1.} For actual resolution supported, refer to the Graphics section of this document.

(1) Flexible Port 1, choice of <u>one</u> of the following ¹ :	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Dual SuperSpeed USB Type-A 5 Gbps signaling rate port	1	1	1	
Dual SuperSpeed USB Type-C 10Gbps signaling rate port with 15W power out	1	1	1	
Type-C [®] SuperSpeed USB 10Gbps signaling rate port		1	1	
Thunderbolt™ 4.0	1	1	1	
Video	1 DisplayPort™ 2.1 <u>or</u> HDMI 2.1 <u>or</u> VGA	1 DisplayPort™ 2.1 <u>or</u> HDMI 2.1 <u>or</u> VGA	1 DisplayPort™ 2.1 <u>or</u> HDMI 2.1 <u>or</u> VGA	
Serial	1	1	1	
Fiber NIC	1x1 Gbps NIC	1x1 Gbps NIC	1x1 Gbps NIC	
RJ-45 Ethernet	1 x2.5GbE NIC	12	12	

^{1.} Sold separately or as an optional feature.

NOTE: Integrated graphics support up to max 4 display signals out of 5 video output ports.

Support up to 6 out of 7 display outputs at a time when configured with 1 optional video port flex IO and 1 HP Video Port Extender.

(1) Flexible Port 2, choice of <u>one</u> of the following ¹ :	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Dual Type-A SuperSpeed USB 5Gbps signaling rate port	1	1	1	
Serial	1	1	1	
Discrete Graphic	1			
HP Video Port Extender	1			

^{1.} Must be configured at time of purchase



^{2.} Occupies a PCIe slot on TWR/SFF.

Features

Bays	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>
Slim Optical Disc Drive (ODD or removable storage, optional)		1	2	
3.5" Internal Storage Drive		1 ¹	21	

^{1.}Must be configured at time of purchase

USB SPECIFICATION AND MARKETING NAME MAPPING TABLE

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



Features

SOFTWARE COMPONENTS AND APPLICATIONS WITH 7

Software

Buy Microsoft Office1

Edge Customization

HP Connection Optimizer

HP Desktop Support Utilities

HP Documentation

HP Hotkey Support

HP Notifications HP PC Hardware Diagnostics UEFI

HP PC Hardware Diagnostics Windows

HP Privacy Settings

HP Services Scan²

HP Setup Integrated 00BE

HP Smart Support³

HP Support Assistant⁴

HSA Fusion for Commercial

HSA Telemetry for Commercial

myHP (SFF & TWR) myHP with Multicamera⁵ support (AIO & Mini)

Poly Camera Pro (AIO Only)

Poly Lens

Manageability Features

HP Client Catalog (download))6

HP Client Management Script Library (download)

HP Cloud Recovery7

HP Connect for Microsoft Endpoint Manager⁸

HP Driver Packs (download)9

HP Image Assistant (download)10

HP Manageability Integration Kit (download)11

HP Patch Assistant (download)12

Security Features

HP Wolf Security for Business¹³ includes:

HP Sure Admin¹⁴

HP Sure Click¹⁵

HP Sure Run¹⁶

HP Sure Sense¹⁷

HP Sure Recover¹⁸

HP Sure Start¹⁹

HP Tamper Lock²⁰

HP Secured-Core PC Enable

BIOS

Absolute Persistence Module²¹

HP Bios Recovery

HP BIOS Update via Network

HP BIOSphere²²

HP Secure Erase²³

HP DriveLock & Automatic DriveLock

TPM

- 1. Microsoft 365 sold separately and requires Internet access for activation.
- 2. HP Services Scan automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights and is available preinstalled on select products, thru HP Factory Configuration Services; or it can be downloaded. For more



Features

information about how to enable HP Smart Support or for download, please visit http://www.hp.com/smart-support.

- 3. HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights and is available preinstalled on select products, thru HP Factory Configuration Services; or it can be downloaded. For more information about how to enable HP Smart Support or for download, please visit http://www.hp.com/smart-support.
- $4. \ HP\ Support\ Assistant\ is\ available\ on\ Windows.\ For\ more\ information,\ please\ visit\ http://www.support.hp.com/help/hp-support-assistant\ is\ available\ on\ Windows.\ For\ more\ information,\ please\ visit\ http://www.support.hp.com/help/hp-support-assistant\ is\ available\ on\ Windows.\ For\ more\ information,\ please\ visit\ http://www.support.hp.com/help/hp-support-assistant\ is\ available\ on\ Windows.\ For\ more\ information\ in\ http://www.support.hp.com/help/hp-support-assistant\ is\ available\ on\ Windows.\ For\ more\ information\ in\ http://www.support.hp.com/help/hp-support-assistant\ in\ http://www.support-assistant\ in\ http://www.support-assistant\ in\ http://www.support-assistant\ in\ http://www.support-assistant\ in\ http://www.support-assistant\ in\ h$
- 5. MyHP with Multicamera support for Mini Desktop PC will only available on 13th processor and beyond.
- 6. HP Client Catalog not preinstalled, however available for download at (https://www.hp.com/us-en/solutions/client-management-solutions.html).
- 7. HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, 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.
- 8. HP Connect for Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately. Network connection required.
- 9. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 10. HP Image Assistant not preinstalled, however available for download at (https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html)
- 11. HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.
- 12. HP Patch Assistant available on select HP PCs with the HP Manageability Kit that are managed through Microsoft System Center Configuration Manager. HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html.
- 13. HP Wolf Security for Business requires Windows 10 or 11 Pro or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features.
- 14. HP Sure Admin requires HP G8 or newer platforms, Windows 10 or higher, HP BIOS, HP Manageability Kit or KMS Service from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator
- 15. HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.
- 16. HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
- 17. HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.
- 18. HP Sure Recover is available on select HP PCs and requires Windows 10 or 11 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. HP Sure Recover Gen6 with Embedded Reimaging is an optional feature on select HP PCs which requires Windows 10 or 11 must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data.
- 19. HP Sure Start is available on select HP PCs and requires Windows 10 and higher
- 20. HP Tamper Lock can be Enabled/disabled by customers or IT administrator with administrator authority.
- 21. Absolute Persistence firmware module is shipped turned off and can only be activated with the purchase a license subscription and full activation of the software agent. License subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit:
- https://www.absolute.com/about/legal/agreements/absolute/.
- 22. HP BIOSphere features may vary depending on the platform and configuration.
- 23. HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special .



Features

UNIT ENVIRONMENT AND OPERATING CONDITIONS

ENERGY STAR® certified models available

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

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

TAA compliant models available

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

UNIT ENVIRONMENT AND OPERATING CONDITIONS

General Unit Operating Guidelines

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

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

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

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

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

Maximum Altitude Operating: 5000m

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

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



Features

ENVIRONMENTAL & INDUSTRY

HP EliteDesk 8 Mini G1i Desktop AI PC

Eco-Label Certifications & declarations	This product has received or is it be labeled with one or more of IT ECO declaration US ENERGY STAR® US Federal Energy Manage EPEAT® Climate+ register status in your country.* TCO Certified China Energy Conservation China State Environment Taiwan Green Mark Korea Eco-label Japan PC Green label Commission Regulation	these marks: gement Program (FEMP) red in the United States. See http: on Program (CECP) al Protection Administration (SEF	
	NOTE* : Based on US EPEAT® regist country. Visit http://www.epeat.	ration according to IEEE 1680.1-2018 net for more information	B EPEAT®. EPEAT® status varies by
Sustainable Impact Specifications	Bottle used in the Speak • At least 5% OP-EPS in pla • At least 56% of total pos • 95% recycled plastic use • 20% recycled metal used • 100% recycled Aluminun • 100% Recycled Rare Earl • Outside Box and corruga	estic parts of Enclosure t-consumer recycled plastic used d in parts I in parts n used in thermal part th Elements (REE) used in speake ted cushions are 100% sustainab on inside box is 100% sustainably	in the system ² r ly sourced and recyclable ³
System Configuration	The configuration used for the Desktop model is based on a "T	Energy Consumption and Declare	d Noise Emissions data for the
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal (Short idle)	10.73 W	11.64 W	10.40 W
Normal Operation (Long idle)	N/A	N/A	N/A
Sleep	4.40 W	4.24 W	4.39 W
Off	family. HP computers marked with Environmental Protection Agency (not offer ENERGY STAR® certified of	0.89 W I is for an ENERGY STAR® certified pro the ENERGY STAR® Logo are complia EPA) ENERGY STAR® specifications fo onfigurations, then energy efficiency ph efficiency power supply, and a Mice	ont with the applicable U.S. or computers. If a model family does or data listed is for a typically configured
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
Normal Operation (Short idle)	37 BTU/hr	40 BTU/hr	36 BTU/hr
Normal Operation (Long idle)	N/A	N/A	N/A



Sleep	15	BTU/hr	15 BTU/hr		15 BTU/hr
Off	3.1	I BTU/hr	3 BTU/hr		3.1 BTU/hr
	NOTE: Heat di one hour.	ssipation is calculated	based on the measured wat	ts, assuming t	he service level is attained for
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (Lwad, bels)				
Typically Configured – Idle		2.7			16
Fixed Disk – Random writes		2.7			16
Longevity and Upgrading			ossibly extending its usef ntained in the product ma		eral years. Upgradeable
	production.	_	• •		to "5" years after the end of
Additional Information	- 2011 • This H (WEEE • This pi Water • This pi http:// • Plastic	/65/EC. P product is designe) Directive – 2002/9 roduct is in compliar and Toxic Enforcem roduct is in compliar /www.epeat.net cs parts weighing ov 43.	d to comply with the Was 6/EC. nce with California Propos ent Act of 1986).	te Electrical a ition 65 (Stat PEAT) standar roduct are ma	·
					T
Packaging Materials	External:	PAPER/Paper			652 g
-Horizontal design	Internal:	PAPER/Molded po	•		79 g
			vlene low density - LDPE		16 g
Packaging Materials	External:	PAPER/Corrugate			405 g
-Vertical design	Internal:	PAPER/Molded po	<u> </u>		74 g
	The plactic		ylene low density - LDPE contains at least 80.0% re	sucled conto	5 g
	•		g materials contain at leas	•	
RoHS Compliance	HP Inc. comp restrictions i products wo legislation in	olies fully with mate n the European Unic rldwide through the n Europe, as well as (rials regulations. We were on (EU) Restriction of Haza HP GSE. HP has contribut China, India, and Vietnam.	among the f ardous Substa ed to the dev	irst companies to extend the ances (RoHS) Directive to our
	elimination of including PV	of substances of con	cern. We have supported	the inclusion	of additional substances— 1 that pertains to electrical
	requirement	s for virtually all rel	o achieve worldwide com evant products by July 20 ude further restricted sub	13, and we w	ill continue to extend the
	To obtain a c	opy of the HP RoHS	Compliance Statement, s	ee: HP RoHS	position statement.
Material Usage	(refer to	the HP General Spe ww.hp.com/hpinfo/	in any of the following su cification for the Environr globalcitizenship/environ	nent at	e.pdf):



	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)
Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging: • 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 0EM 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://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf
footnotes	1. Percentage of ocean-bound plastic & PCR contained in each component varies by product. 2. Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. 3. 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. 4. Fiber cushions made from 100% recycled wood fiber and organic materials. 5. Plastic cushions are made from >90% recycled plastic.



Features

HP EliteDesk 8 SFF G1i Desktop AI PC

Eco-Label Certifications & declarations	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks: • IT ECO declaration • US ENERGY STAR® • US Federal Energy Management Program (FEMP) • EPEAT® Climate+ registered in the United States. See http://www.epeat.net for registration status in your country*. • TCO Certified • China Energy Conservation Program (CECP) • China State Environmental Protection Administration (SEPA) • Taiwan Green Mark • Korea Eco-label • Japan PC Green label • Commission Regulation (EC) No 617/2013 (ErP Lot 3) NOTE*: Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit https://www.epeat.net for more information.					
Sustainable Impact Specifications	 At least 25% ocean bound plastic-PET Bottle in the fan and 5% ocean bound plastic-PET used in the speaker 95% recycled plastic used in parts 20% recycled metal used in parts At least 60% of the total post-consumer recycled plastic used in the system 100% Recycled Rare Earth Elements (REE) in speaker Outside Box and corrugated cushions are 100% sustainably sourced and recyclable Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable Bulk packaging available 					
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, 50Hz			
Normal Operation (Short idle)	17.94 W	17.63 W	17.66 W			
Normal Operation (Long idle)	N/A	N/A	N/A			
Sleep	3.41 W	3.76 W	3.55 W			
Off	0.47 W	0.47 W	0.47 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® operatin system.					
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz			
Normal Operation (Short idle)	61 BTU/hr	60 BTU/hr	60 BTU/hr			
Normal Operation (Long idle)	N/A	N/A N/A N/A				
Sleep	11.7 BTU/hr	13 BTU/hr	12.1 BTU/hr			



Off	1.6	BTU/hr	2 E	BTU/hr	1.6 BTU/hr
	NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level one hour.				ne service level is attained for
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (LwAd, bels)			Sound Pressure (L _{pAm} , decibels)	
Typically Configured – Idle		3.1			19
Fixed Disk–Random writes		3.3			21
Optical Drive – Sequential reads		3.0			19
Longevity and Upgrading	features and	l/or components co	ontained in the p	ing its useful life by seve product may include: anty period and or for up	ral years. Upgradeable to "5" years after the end of
Additional Information	 Production. This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directives 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 Drinkin Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the Climate+ level, se http://www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per IS011469 and IS01043. This product is 93.6% recycle-able when properly disposed of at end of life. 			and Electronic Equipment e of California; Safe Drinking d at the Climate+ level, see arked per ISO11469 and	
Packaging Materials	External:	PAPER/Corrugat	 ed		424 g
(vary by country)	Internal:	PAPER/Molded P			468 g
	PLASTIC/Polyethylene low density – LDPE				28 g
	The plastic	packaging materia	l contains at lea	st 320-0% recycled cont	ent.
				ntain at least 35% recycl	
RoHS Compliance	HP Inc. complies fully with materials regulations. We were among the first companies to extend restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to a products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in promoting industry-wid 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.			ences (RoHS) Directive to our elopment of related n promoting industry-wide of additional substances—	
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 ex scope of the commitment to include further restricted substances as regulations contine evolve. To obtain a copy of the HP RoHS Compliance Statement, see: HP RoHS position statement				ill continue to extend the gulations continue to	
Material Usage	 This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specification s.html): Asbestos 				



 Certain Azo Colorants Certain Brominated Flame Retardants – may not be used as flame retardants in Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins Bis(2-Ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) Dibutyl phthalate (DBP) 	n plastics
 Certain Brominated Flame Retardants – may not be used as flame retardants in Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins Bis(2-Ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) 	n plastics
 Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins Bis(2-Ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) 	
 Chlorinated Hydrocarbons Chlorinated Paraffins Bis(2-Ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) 	
 Chlorinated Paraffins Bis(2-Ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) 	
Bis(2-Ethylhexyl) phthalate (DEHP)Benzyl butyl phthalate (BBP)	
Benzyl butyl phthalate (BBP)	
Dilisobutyl phthalate (DBP)	
• 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 frequency.	ently nandled
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 packag 	jing has been
voluntarily removed from most applications.	
Radioactive Substances	
 Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO) 	
Packaging Usage HP follows these guidelines to decrease the environmental impact of product packaging	ina:
	mg.
Design packaging materials for ease of disassembly.	
 Maximize the use of post-consumer recycled content materials in packaging ma 	aterials.
 Use readily recyclable packaging materials such as paper and corrugated mater 	rials.
 Reduce size and weight of packages to improve transportation fuel efficiency. 	
 Plastic packaging materials are marked according to ISO 11469 and DIN 6120 st 	tandards.
End-of-life Management HP Inc. offers end-of-life HP product return and recycling programs in many geograph	
and Recycling recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact y	
HP sales office. Products returned to HP will be recycled, recovered or disposed of in a	
manner.	
The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment inf	formation for
each product type for use by treatment facilities. This information (product disassem	
instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/rei	
instructions may be used by recyclers and other WEEE treatment facilities as well as h	
customers who integrate and re-sell HP equipment.	02.1
Global Citizenship Report	
http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html	
Eco-label certifications	
http://www8.hp.com/us/en/hp-information/environment/ecolabels.html	
ISO 14001 certificates:	
http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and	
nttp://www.np.com/npinro/globalcitizensnip/environment/par/cert.par	
http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf	



Features

footnotes

- Percentage of ocean-bound plastic and PCR contained in each component varies by product
- Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.
- 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.
- Fiber cushions made from 100% recycled wood fiber and organic materials.
- Plastic cushions are made from >90% recycled plastic.
- recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.

HP EliteDesk 8 Tower G1i/G1i E Desktop AI PC

Eco-Label Certifications & declarations

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- IT ECO declaration
- US ENERGY STAR®
- US Federal Energy Management Program (FEMP)
- •EPEAT® Climate+ registered in the United States. See http://www.epeat.net for registration status in your country.*
- TCO Certified
- China Energy Conservation Program (CECP)
- China State Environmental Protection Administration (SEPA)
- Taiwan Green Mark
- Korea Eco-label
- Japan PC Green label
- Commission Regulation (EC) No 617/2013 (ErP Lot 3)

NOTE*: 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.

Sustainable Impact Specifications

- At least 25% ocean bound plastic-PET Bottle in the fan and 5% ocean bound plastic-PET in the speaker
- 95% recycled plastic used in parts
- 20% recycled metal used in parts
- At least 63% of post-consumer recycled plastic used in system
- 100% Recycled Rare Earth Elements (REE) used in speaker
- Outside Box and corrugated cushions are 100% sustainably sourced and recyclable
- Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable
- Bulk packaging available

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)	5.41 W	5.49 W	5.39 W
Normal Operation (Long idle)	2.18 W	2.19 W	2.14 W
Sleep	2.18 W	2.19 W	2.14 W
Off	0.66 W	0.67 W	0.69 W

NOTE: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically

	configured PO system.	featuring a hard disk	drive, a high effic	ency power supply	, and a Microsoft Windows® operating
Heat Dissipation*	115	VAC, 60Hz	230V	AC, 50Hz	100VAC, 60Hz
Normal Operation (Short idle)	1:	9 BTU/hr	BTU/hr 19 BTU/hr		18 BTU/hr
Normal Operation (Long idle)	7	BTU/hr	7 B	TU/hr	7 BTU/hr
Sleep		5 BTU/hr		TU/hr	7.3 BTU/hr
Off	2.	3 BTU/hr	2 B	TU/hr	2.4 BTU/hr
	NOTE: Heat d one hour.	issipation is calculated	l based on the me	asured watts, assu	ming 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		3.0			21
Fixed Disk–Random writes		3.0			22
Optical Drive – Sequential reads		3.0			21
Longevity and Upgrading	features and	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			
	 This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the Climate+ level, see http://www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product is 93.6% recycle-able when properly disposed of at end of life 				(State of California; Safe Drinking andard at the Climate+ level, see are marked per ISO11469 and
Packaging Materials	External:	PAPER/Corrugate	d		1106 g
(vary by country)	Internal:	PAPER/Molded Pu			676 g
	OTHER/Other 36 g				
	The plastic packaging material contains at least 20-30% recycled content. The corrugated paper packaging materials contain at least 35.0% recycled content.				
RoHS Compliance	HP Inc. comprestrictions products we legislation in which believe the limination including PV and electror we met our requirement	olies fully with mate in the European Uni- orldwide through the n Europe, as well as the RoHS directive ar of substances of cor IC, BFRs, and certain nics products. voluntary objective	rials regulations on (EU) Restriction (E	s. We were among on of Hazardous of contributed to the I Vietnam. Play an important Supported the included future RoHS legis Iwide compliance by July 2013, and	% recycled content. g the first companies to extend the Substances (RoHS) Directive to our ne development of related role in promoting industry-wide lusion of additional substances—slation that pertains to electrical ewith the new EU RoHS we will continue to extend the s as regulations continue to



	To obtain a copy of the HP RoHS Compliance Statement, see: HP RoHS position statement.
Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):
	 Asbestos Certain Azo Colorants Certain Brominated Flame Retardants – may not be used as flame retardants in plastics Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins Bis(2-Ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP) Dibutyl phthalate (DIBP) 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)
Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging: • 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 0EM 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://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and



Features

	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf
Footnotes	 Percentage of ocean-bound plastic and PCR contained in each component varies by product Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic materials. Plastic cushions are made from >90% recycled plastic. recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.

HP EliteStudio 8 All-in-One G1i 23.8-inch Desktop AI PC

Eco-Label Certifications & declarations	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks: •IT ECO declaration •US ENERGY STAR® •US Federal Energy Management Program (FEMP) •EPEAT® Climate+ registered in the United States. See http://www.epeat.net for registration status in your country.* •TCO Certified •China Energy Conservation Program (CECP) •China State Environmental Protection Administration (SEPA) •Taiwan Green Mark •Korea Eco-label •Japan PC Green label •Commission Regulation (EC) No 617/2013 (ErP Lot 3)					
Sustainable Impact Specifications	NOTE*: 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. • At least 25% ocean bound plastic-PET Bottle in the Fan and 5% ocean bound plastic-PET Bottle in the Speaker¹ • At least 78% of t post-consumer recycled plastic used in system² • 95% recycled plastic used in parts					
	 20% recycled metal used in parts 100% recycled Aluminum used in thermal part and stand part 100% Recycled Rear earth element (REE) used in speaker Outside Box and corrugated cushions are 100% sustainably sourced and recyclable³ Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable⁴ 					
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the All-in-One PC model is based on a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.					
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz 230VAC, 50Hz 100VAC, 50Hz					
Normal Operation (Short idle)	15.07 W	14.03 W	14.11 W			
Normal Operation (Long idle)	1.99 W	2.13 W	2.01 W			
Sleep Off	1.99 W 2.13 W 2.01 W 0.78 W 0.77 W 0.79 W					
UII	U.78 W	U.// W	U./9 W			



	family. HP compu Environmental P not offer ENERGY	uters marked with rotection Agency (/ STAR® compliant	the ENERGY STAR® Lo EPA) ENERGY STAR® s configurations, then	ogo are complia specifications fo energy efficien	oroduct if offered within the model ant with the applicable U.S. or computers. If a model family does cy data listed is for a typically y, and a Microsoft Windows® operating
Heat Dissipation*	115VAC	, 60Hz	230VAC,	50Hz	100VAC, 50Hz
Normal Operation (Short idle)	51.34 B	BTU/hr	47.84 BT	ſU/hr	48.12 BTU/hr
Normal Operation (Long idle)	6.79 B		7.26 BT		6.85 BTU/hr
Sleep	6.79 B		7.26 BT		6.85 BTU/hr
Off	2.66 B	TU/hr	2.63 BT	U/hr	2.69 BTU/hr
	NOTE: Heat dissione hour.	pation is calculate	d based on the measu	ured watts, assu	uming the service level is attained for
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)		Sound Power (Lwad, bels)			Sound Pressure (L _{PAm} , decibels)
Typically Configured – Idle		2.8			14
Fixed Disk – Random writes		3.1			18
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 1 MXM 3.0 Type A - 35W slot 1 mSATA slot 1 2.5" internal bay supporting up to Two 2.5" hard drives (HDD/SSD/SED/SSHD) 1 5.25" external supporting optical drive Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.				
Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the Climate+ level, see http://www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product is 97.5% recycle-able when properly disposed of at end of life. 				
Packaging Materials	External:	PAPER/Paper			1102.6g 1650.5g
	Internal: PLASTIC/Other			51.7g	
	The plastic packaging material contains at least 80% recycled content.				
	The corrugated paper packaging materials contain at least 80% recycled content.				



RoHS Compliance	HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical
	and electronics products. 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	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):
	 Asbestos Certain Azo Colorants Certain Brominated Flame Retardants – may not be used as flame retardants in plastics Cadmium
	 Chlorinated Hydrocarbons Chlorinated Paraffins Bis(2-Ethylhexyl) phthalate (DEHP) Benzyl butyl phthalate (BBP)
	 Dibutyl phthalate (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)
Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging:
	 Design packaging materials for ease of disassembly.
	 Maximize the use of post-consumer recycled content materials in packaging materials.
	 Use readily recyclable packaging materials such as paper and corrugated materials.
	 Reduce size and weight of packages to improve transportation fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.



Features

End-of-life Management and Recycling	HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.
	The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers . These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment. Global Citizenship Report
	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
	Eco-label certifications
	http://www8.hp.com/us/en/hp-information/environment/ecolabels.html
	ISO 14001 certificates: http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K
	_Certificate.pdf and
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf
HP, Inc. Corporate Environmental	For more information about HP's commitment to the environment:
Information	Global Citizenship Report
	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
	Eco-label certifications
	http://www8.hp.com/us/en/hp-information/environment/ecolabels.html
	ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf
footnotes	 Percentage of ocean-bound plastic & PCR contained in each component varies by product. Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. Fiber cushions made from 100% recycled wood fiber and organic materials. Plastic cushions are made from >90% recycled plastic.

HP EliteStudio 8 All-in-One G1i 27-inch Desktop AI 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) • EPEAT® Climate+ registered in the United States. See http://www.epeat.net for registration status in your country.* • TCO Certified
	 China Energy Conservation Program (CECP) China State Environmental Protection Administration (SEPA) Taiwan Green Mark Korea Eco-label Japan PC Green label Commission Regulation (EC) No 617/2013 (ErP Lot 3)
	NOTE* : 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.



Sustainable Impact Specifications	 At least 25% ocean bound plastic-PET Bottle in the Fan and 5% ocean bound plastic-PET Bottle used in the Speaker¹ At least 80% of post-consumer recycled plastic used in system² 95% recycled plastic used in parts 20% recycled metal used in parts 100% recycled Aluminum used in thermal part and Stand part 100% Recycled Rear earth element (REE) used in speaker Outside Box and corrugated cushions are 100% sustainably sourced and recyclable³ Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable⁴ 			
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the All-in-One PC model is based on a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.			
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz	
Normal Operation (Short idle)	22.99 W	22.65 W	22.30 W	
Normal Operation (Long idle)	2.15 W	1.82 W	2.27 W	
Sleep	2.15 W	1.82 W	2.27 W	
Off	0.77 W	0.78 W	0.78 W	
	Note: Energy efficiency data listed is for a family. HP computers marked with the EN Environmental Protection Agency (EPA) El not offer ENERGY STAR® compliant config configured PC featuring a hard disk drive,	ERGY STAR® Logo are compli NERGY STAR® specifications for ourations, then energy efficier	ant with the applicable U.S. or computers. If a model family does ncy data listed is for a typically	
	family. HP computers marked with the EN Environmental Protection Agency (EPA) EI not offer ENERGY STAR® compliant config	ERGY STAR® Logo are compli NERGY STAR® specifications for ourations, then energy efficier	ant with the applicable U.S. or computers. If a model family does ncy data listed is for a typically	
Normal Operation (Short idle)	family. HP computers marked with the EN Environmental Protection Agency (EPA) EI not offer ENERGY STAR® compliant config configured PC featuring a hard disk drive, system.	ERGY STAR® Logo are compli NERGY STAR® specifications for Jurations, then energy efficier a high efficiency power suppl	ant with the applicable U.S. or computers. If a model family does ocy data listed is for a typically y, and a Microsoft Windows® operating	
Normal Operation (Short idle) Normal Operation	family. HP computers marked with the EN Environmental Protection Agency (EPA) El not offer ENERGY STAR® compliant config configured PC featuring a hard disk drive, system. 115VAC, 60Hz	ERGY STAR® Logo are compli NERGY STAR® specifications for Jurations, then energy efficier a high efficiency power suppli 230VAC, 50Hz	ant with the applicable U.S. or computers. If a model family does ncy data listed is for a typically y, and a Microsoft Windows® operating	
Normal Operation Short idle) Normal Operation (Long idle) Sleep	family. HP computers marked with the EN Environmental Protection Agency (EPA) Et not offer ENERGY STAR® compliant config configured PC featuring a hard disk drive, system. 115VAC, 60Hz 78.40 BTU/hr	ERGY STAR® Logo are complications for the state of the st	ant with the applicable U.S. or computers. If a model family does ncy data listed is for a typically y, and a Microsoft Windows® operatin 100VAC, 60Hz 76.04 BTU/hr	
Normal Operation (Short idle) Normal Operation (Long idle) Sleep	family. HP computers marked with the EN Environmental Protection Agency (EPA) Et not offer ENERGY STAR® compliant config configured PC featuring a hard disk drive, system. 115VAC, 60Hz 78.40 BTU/hr 7.33 BTU/hr	ERGY STAR® Logo are compliance of the NERGY STAR specifications for the need of the need o	ant with the applicable U.S. or computers. If a model family does ncy data listed is for a typically y, and a Microsoft Windows® operating 100VAC, 60Hz 76.04 BTU/hr 7.74 BTU/hr	
Normal Operation (Short idle) Normal Operation (Long idle) Sleep	family. HP computers marked with the EN Environmental Protection Agency (EPA) Et not offer ENERGY STAR® compliant config configured PC featuring a hard disk drive, system. 115VAC, 60Hz 78.40 BTU/hr 7.33 BTU/hr 7.33 BTU/hr	ERGY STAR® Logo are compliance of the NERGY STAR® specifications for the nearly efficier a high efficiency power supplements of the nearly efficier a high efficiency power supplements of the nearly	ant with the applicable U.S. or computers. If a model family does ncy data listed is for a typically y, and a Microsoft Windows® operating 100VAC, 60Hz 76.04 BTU/hr 7.74 BTU/hr 2.66 BTU/hr	
Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off	family. HP computers marked with the EN Environmental Protection Agency (EPA) Et not offer ENERGY STAR® compliant config configured PC featuring a hard disk drive, system. 115VAC, 60Hz 78.40 BTU/hr 7.33 BTU/hr 7.33 BTU/hr 2.63 BTU/hr	ERGY STAR® Logo are compliance of the NERGY STAR® specifications for the nearly efficier a high efficiency power supplements of the nearly efficier a high efficiency power supplements of the nearly	ant with the applicable U.S. or computers. If a model family does ncy data listed is for a typically y, and a Microsoft Windows® operating 100VAC, 60Hz 76.04 BTU/hr 7.74 BTU/hr 2.66 BTU/hr	
Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with	family. HP computers marked with the EN Environmental Protection Agency (EPA) Et not offer ENERGY STAR® compliant config configured PC featuring a hard disk drive, system. 115VAC, 60Hz 78.40 BTU/hr 7.33 BTU/hr 2.63 BTU/hr NOTE: Heat dissipation is calculated based one hour.	ERGY STAR® Logo are compliance of the NERGY STAR® specifications for the nearly efficier a high efficiency power supplements of the nearly efficier a high efficiency power supplements of the nearly	ant with the applicable U.S. or computers. If a model family does ncy data listed is for a typically y, and a Microsoft Windows® operation 100VAC, 60Hz 76.04 BTU/hr 7.74 BTU/hr 2.66 BTU/hr uming the service level is attained for	
Normal Operation Short idle) Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with SO 7779 and ISO 9296) Typically Configured – Idle	family. HP computers marked with the EN Environmental Protection Agency (EPA) Et not offer ENERGY STAR® compliant config configured PC featuring a hard disk drive, system. 115VAC, 60Hz 78.40 BTU/hr 7.33 BTU/hr 7.33 BTU/hr 2.63 BTU/hr NOTE: Heat dissipation is calculated based one hour. Sound Power (LwAd, bels)	ERGY STAR® Logo are compliance of the NERGY STAR® specifications for the nearly efficier a high efficiency power supplements of the nearly efficier a high efficiency power supplements of the nearly	ant with the applicable U.S. or computers. If a model family does ncy data listed is for a typically y, and a Microsoft Windows® operatin 100VAC, 60Hz 76.04 BTU/hr 7.74 BTU/hr 2.66 BTU/hr uming the service level is attained for Sound Pressure	
Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random writes	family. HP computers marked with the EN Environmental Protection Agency (EPA) Et not offer ENERGY STAR® compliant config configured PC featuring a hard disk drive, system. 115VAC, 60Hz 78.40 BTU/hr 7.33 BTU/hr 7.33 BTU/hr 2.63 BTU/hr NOTE: Heat dissipation is calculated based one hour. Sound Power (Lwad, bels) 2.8 3.0	ERGY STAR® Logo are complications for the property of the prop	ant with the applicable U.S. or computers. If a model family does ncy data listed is for a typically y, and a Microsoft Windows® operatin 100VAC, 60Hz 76.04 BTU/hr 7.74 BTU/hr 7.74 BTU/hr 2.66 BTU/hr uming the service level is attained for Sound Pressure (L _{pAm} , decibels) 14 18	
Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random writes	family. HP computers marked with the EN Environmental Protection Agency (EPA) Et not offer ENERGY STAR® compliant config configured PC featuring a hard disk drive, system. 115VAC, 60Hz 78.40 BTU/hr 7.33 BTU/hr 7.33 BTU/hr 2.63 BTU/hr NOTE: Heat dissipation is calculated based one hour. Sound Power (LwAd, bels)	ERGY STAR® Logo are compliance of the state	ant with the applicable U.S. or computers. If a model family does not yell a listed is for a typically y, and a Microsoft Windows® operation 100VAC, 60Hz 76.04 BTU/hr 7.74 BTU/hr 2.66 BTU/hr uming the service level is attained for Sound Pressure (L _{pAm} , decibels) 14 18 by several years. Upgradeable	
Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296) Typically Configured – Idle Fixed Disk – Random writes Longevity and Upgrading	family. HP computers marked with the EN Environmental Protection Agency (EPA) Et not offer ENERGY STAR® compliant config configured PC featuring a hard disk drive, system. 115VAC, 60Hz 78.40 BTU/hr 7.33 BTU/hr 7.33 BTU/hr 2.63 BTU/hr NOTE: Heat dissipation is calculated based one hour. Sound Power (Lwad, bels) 2.8 3.0 This product can be upgraded, possible	ERGY STAR® Logo are compliance of the state	ant with the applicable U.S. or computers. If a model family does not yell a listed is for a typically y, and a Microsoft Windows® operatin 100VAC, 60Hz 76.04 BTU/hr 7.74 BTU/hr 2.66 BTU/hr uming the service level is attained for Sound Pressure (L _{pAm} , decibels) 14 18 by several years. Upgradeable	



Features

	• 1 5.25	" external supporting optical drive	
	Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.		
Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the Climate+ level, see http://www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per IS011469 and IS01043. This product is 97.9% recycle-able when properly disposed of at end of life 		
Packaging Materials	External:	Paper/ CORRUGATED	1339g
		Molded pulp	2139g
	Internal:	Wood fiber bag	49.5g
		packaging material contains at least xx% recycled c	
		ted paper packaging materials contain at least xx%	-
RoHS Compliance	HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products. 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 c	opy of the HP RoHS Compliance Statement, see: HP	RoHS position statement.
Material Usage	to the HP Ge http://www. Asbes: Certain Cadmi Chlorin Chlorin Bis(2- Benzy Dibuty Diisob Forma Halogo	n Azo Colorants n Brominated Flame Retardants – may not be used	plychain/gen_specifications.html):
		and Lead compounds	



Features

	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)
	modify the (1517) replicitly the (1117) ready the onde (1516)
Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging:
	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.
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 and
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf
footnotes	Percentage of ocean-bound plastic contained in each component varies by product.
	2. Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.
	3.100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled
	fibers.
	4. Fiber cushions made from 100% recycled wood fiber and organic materials.
	5. Plastic cushions are made from >90% recycled plastic.



Features

SERVICE AND SUPPORT

On-site Warranty¹: One-year (1-1-1) limited warranty delivers one year of on-site, next business day² service for parts and labor support. 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.³

- 1. Terms and conditions may vary by country. Certain restrictions and exclusions apply. Other warranty variations may be offered in your region.
 2. On-site service may be provided pursuant to a service contract between HP and an authorized HP third-party provider and is not available in certain countries. Global service response times are based on commercially reasonable best effort and may vary by country.
- 3. 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® 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 Core Ultra Processors 200S series

All HP EliteDesk G1i Business PC & EiliteStudio G1i AiO models featuring this technology include processors that are part of the Intel® Stable Image Platform Program (SIPP) designed to ensure the stability promise inherent in the value proposition of the HP Elite series G1i Desktop Business PC.

Intel® Management Engine (ME) v19—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 includes the following advanced management functions:

- Support for configuration of Intel ME 19.0 capabilities
- · No reset after provisioning
- Support for Intel Enterprise Digital Fence
- The Platform Discovery Utility can now discover these additional Intel products:
 - o Public Key Infrastructure
- Profile Editor and Profile Editor Plugin Interface
- Required Permissions for Solutions Framework



Technical Specifications – Display Panel Specifications

DISPLAY PANEL SPECIFICATIONS

NOTE: All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower. For All in One only Intel® HD Graphics (integrated).

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

Support HW low blue light feature

 Typo
 IPS WLED Backlit LCD

 Active area (mm)
 527.04 x 296.46

 Native resolution (HxV)
 1920 x 1080

 Refresh rate
 75 Hz @ 1920 x 1080

Aspect ratio 16:9

Pixel pitch (HxV)(mm) 0.2745 x 0.2745

Contrast ratio 1000:1
Brightness 300nits
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 8 Bit (6 Bit + FRC)

Color gamutsRGB 99%Anti-glareYesResponse time14ms

Default color temperature Warm (6500K)

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

Support HW low blue light feature

Type IPS WLED Backlit LCD Active area (mm) 527.04 x 296.46 Native resolution (HxV) 1920 x 1080

Refresh rate 75Hz @ 1920 x 1080

Aspect ratio 16:9

Pixel pitch (HxV)(mm) 0.2745 x 0.2745

Contrast ratio1000:1Brightness250nitsViewing angle (HxV)178° x 178°

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

Color support Up to 16.7 million colors with 8 Bit (6 Bit + FRC)

Color gamutsRGB99%Anti-glareYesResponse time14ms

Default color temperature Warm (6500K)



Technical Specifications – Display Panel Specifications

27.0" diagonal IPS widescreen WLED backlit anti-glare LCD (2560 x 1440) non-touch

Support HW low blue light feature

IPS WLED Backlit LCD Active area (mm) 596.736 x 335.664 Native resolution (HxV) 2560 x 1440

Refresh rate 75 Hz @ 2560 x 1440

Aspect ratio 16:9

Pixel pitch (HxV)(mm) 0.2331 x 0.2331

Contrast ratio 1000:1 **Brightness** 350 nits 178° x 178° Viewing angle (HxV)

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

Color support Up to 16.7 million colors with 8 bit (True)

Color gamut sRGB99% Anti-glare Yes Response time 14ms

Default color temperature Warm (6500K)

27.0" diagonal IPS widescreen WLED backlit LCD (2560 x 1440) Touch Projected Capacitive Touch supports up to 10 touch-points

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 75 Hz @ 2560 x 1440

Aspect ratio 16:9

Pixel pitch (HxV)(mm) 0.2331 x 0.2331

Contrast ratio 1000:1 **Brightness** 350nits* Viewing angle (HxV) 178° x 178°

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

Up to 16.7 million colors with 8 bit (True) **Color support**

Color gamut sRGB99% Anti-glare Yes Response time 14ms

Default color temperature Warm (6500K)



Technical Specifications – Graphics

GRAPHICS

HP EliteDesk 8 Mini G1i Desktop AI PC

Intel® HD Graphics (integrated)

Up to four simultaneous displays, 4K60Hz display concurrent with:

Single external display up to 8K60Hz, supported by joining two pipes over single port.

Up to 4x4K60Hz External display (Out of 4 Native video ports + 1 Flex IO option)

VGA Controller Integrated

DisplayPort™ Supports up to UHBR20

Support MST (Multi-Stream Transport), Maximum of 3 displays with Daisy-Chain monitor

Support VESA DSC 1.2b

Support HDCP

Support up to 36 BPP (Bit Pre Pixel)

HDMI Supports HDMI 2.1 features

> Supports up to 6Gbps TMDS link rates on 3 lanes Supports up to 12Gbps FRL link rates on 4 lanes

Supports HDCP 2.3

Supports audio over HDMI

Support up to 36 BBP (Bit Pre Pixel)

VGA (optional) VGA output

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

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.

Graphics/Video API Support HEVC/VP9 8k@60 12-bit 420/422/444 Decode

> AV1 8K@60 10-bit 420 Decode AVC 4k@60 8bit 420 Decode

HDR

Direct3D* 2015 /Direct3D 12/Direct3D 11.2/Direct3D11.1/Direct3D 10/Direct2D

OpenGL* 4.5 OpenCL* 3.0 Direct X* 12

DP2.1 (HBR3) 7680 x 4320 @60hz (with DSC) Max resolution (Native DP)

Max resolution (Native HDMI) 4096 x 2160@60Hz HMDI 2.1 (TMDS 6Gbps) 4K@60HZ 24 bpp

Max resolution

(Native Thunderbolt 4) Max resolution (option VGA) 2048 x 1536@ 60Hz

DP ALT Mode DP2.1 UHBR20 7680 x 4320@60Hz

Max resolution (option DP) UHBR20: 8K60Hz compressed, 5K120Hz compressed



Technical Specifications – Graphics

Max resolution (option HDMI)

Max resolution (Native Thunderbolt 4)

HDMI2.1 (FRL 12G bps) 8K60Hz Compressed, 5K120Hz compressed, 4K144Hz compressed

DP ALT Mode DP2.1 UHBR20 7680 x 4320@60Hz



Technical Specifications – Graphics

HP EliteDesk 8 SFF G1i Desktop AI PC

Intel® HD Graphics (integrated)

Up to four simultaneous displays, 4K60Hz display concurrent with:

- Single external display up to 8K60Hz, supported by joining two pipes over single port.
- Up to 4x4K60Hz External display (3 Native video ports + 1 Flex IO options).

VGA Controller Integrated

DisplayPort™ Multimode capable; supports HDCP, Display Port Audio), Native support HBR3 link

rates/option DP support to UHBR20 and Multi-Stream Technology for a maximum of 3-

displays connected to any output controlled by Intel® Graphics

HDMI (Native / optional) Supports HDMI 2.1 features (Native HDMI support HDMI TMDS 6G; Option HDMI support

HDMI 2.1 FRL12)

Supports HDCP 2.3 (Support HDCP 1.4/2.3)

Supports audio over HDMI

VGA (optional) VGA output

USB-C® DP Alt Mode (optional) DisplayPort™ over the optional USB-C® module (Support DP1.4 HBR3)

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 Supports up to 36 BPP (Bit Per Pixel)

Graphics/Video API Support Decode: HEVC/VP9 8K60 12-bit 420/422/444*, AV1 8K60 10-bit 420, AVC 4K60 8-bit 420

Encode: HEVC/VP9 8K30 10-bit 420/444*, AV1 8K30 10-bit 420 (FF accel), AVC 4K60 8-bit

420 HDR

Dolby Vision 420/422 w/ DSC 1.2

DX12 Ultimate

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

Max. Resolution (Native HDMI) HDMI TMDS 6G: 4096 x 2160@,60Hz

Max. Resolution (Option HDMI) HDMI2.1 FRL 12G: 8K60Hz Compressed, 5K120Hz compressed, 4K144Hz compressed

Max. Resolution (Native DP) DP2.1 HBR3: 7680 x 4320@60Hz (with DSC)

Max. Resolution (Option DP) DP2.1 UHBR20: 8K60Hz compressed, 5K120Hz compressed

Max. Resolution (Option Type C) DP HBR3: 7680 x 4320@60Hz (with DSC)

Max resolution (option Thunderbolt 4)

DP ALT Mode DP2.1 UHBR20 7680 x 4320@60Hz

AMD Radeon™ RX 6300 2GB GDDR6 Graphics card

Engine Clock Base: 1512 Mhz Boost: 2040 Mhz

Memory Size / Width 2GB / 32bit

Graphic Memory Type / Clock 512Mx32 GDDR6 ,1 pcs / 16Gbps

 Max. Resolution (HDMI)
 7680 x 4320@60Hz

 Max. Resolution (DP)
 7680 x 4320@120Hz

Multi Display Support 2 displays

HDCP Compliance Yes

Rear I/O connectors (bracket) HDMIx1+ DPx1 (LP)



Technical Specifications – Graphics

Cooling (active/passive) Active **Total power consumption (W)** 57W

Form-factor X:160.2mm/Y:68.9mm/Z: 22.6mm PCB with single slot

NVIDIA® RTX A1000 8GB GRAPHICS

GPU Clocks Base: 721 Mhz Boost: 1462 Mhz

Memory size / Bus Width 8GB / 128bits

Graphic Memory Type / Clock 8GB GDDR6/6001MHz

Max. Resolution (DP1.4a) 7680 x 4320 x24 bpp @120Hz/60Hz

Multi Display Support 4 displays

HDCP Compliance Yes
Rear I/O connectors (bracket) mDPx4
Cooling (active/passive) Active
Total power consumption (W) 50W

Form Factor H: 2.7"(68.58mm) x L: 6.4"(162.56mm), single slot

NVIDIA® RTX A400 4GB Graphics

GPU Clocks Base: 1417 Mhz Boost: 1762 Mhz

Memory size / Bus Width 4GB / 64 bits

Graphic Memory Type / Clock 4GB GDDR6/6001MHz

Max. Resolution (DP1.4a) 7680 x 4320 x24 bpp @120Hz/60Hz

Multi Display Support 4 displays

HDCP Compliance Yes
Rear I/O connectors (bracket) mDPx4
Cooling (active/passive) Active
Total power consumption (W) 50W

Form Factor H: 2.7"(68.58mm) x L: 6.4"(162.56mm), single slot



Technical Specifications – Graphics

HP EliteDesk 8 Tower G1i / G1i E Desktop AI PC

Intel® HD Graphics (integrated)

Up to four simultaneous displays, 4K60Hz display concurrent with:

— Single external display up to 8K60Hz, supported by joining two pipes over single port.

— Up to 4x4K60Hz External display. (3 Native video ports + 1 Flex IO options)

VGA Controller Integrated

DisplayPort™ Multimode capable; supports HDCP, Display Port Audio), Native support HBR2 link

rates/option DP support to HBR3 and Multi-Stream Technology for a maximum of 3-

displays connected to any output controlled by Intel® Graphics

HDMI (Native / optional) Supports HDMI 2.1 features (Native HDMI support HDMI TMDS 6G; Option HDMI support

HDMI 2.1 FRL12)

Supports HDCP 2.3 (Support HDCP 1.4/2.3)

Supports audio over HDMI

VGA (optional) VGA output

USB-C® DP Alt Mode (optional) DisplayPort™ over the optional USB-C® module (Support DP1.4 HBR3)

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 Supports up to 36 BPP (Bit Per Pixel)

Graphics/Video API Support Decode: HEVC/VP9 8K60 12-bit 420/422/444*, AV1 8K60 10-bit 420, AVC 4K60 8-bit 420

Encode: HEVC/VP9 8K30 10-bit 420/444*, AV1 8K30 10-bit 420 (FF accel, AVC 4K60 8-bit

420 HDR

Dolby Vision 420/422 w/ DSC 1.2

DX12 Ultimate

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

Max. Resolution (Native HDMI) HDMI TMDS 6G: 4096 x 2160@,60Hz

Max. Resolution (Option HDMI) HDMI2.1 FRL 12G: 8K60Hz Compressed, 5K120Hz compressed, 4K144Hz compressed

Max. Resolution (On board DP) DP2.1 HBR3: 7680 x 4320@60Hz (with DSC)

Max. Resolution (Option DP) DP2.1 UHBR20: 8K60Hz compressed, 5K120Hz compressed

Max. Resolution (Option Type C) DP HBR3: 7680 x 4320@60Hz (with DSC)

Max resolution

(option Thunderbolt 4)

DP ALT Mode DP2.1 UHBR20 7680 x 4320@60Hz

NVIDIA® GeForce® RTX 3050 8GB GDDR6 Graphics Card

Engine Clock Base: 1515 Mhz Boost: 1755 Mhz

Frame Buffer Size / Width 8GB/128bit

Graphic Memory Type / Clock 512M x32 GDDR6 @ 4 pcs/14Gbps

 Max. Resolution (HDMI)
 7680 x 4320@60Hz

 Max. Resolution (DP)
 7680 x 4320@60Hz

Multi Display Support4 displaysHDCP ComplianceYes



Technical Specifications – Graphics

Rear I/O connectors (bracket) HDMIx1+ DPx3

Cooling (active/passive) Active fansink with 4 pin fan control

Total power consumption (W) 120W

Form-factor ATX (X:144.7mm/Y:111.15mm/Z: 36.70mm) PCB with ATX dual slot bracket

NOTE: PCle 2x4 power connector requires for RTX3050 with 400W PSU

NVIDIA® RTX A400 4GB Graphics

GPU Clocks Base: 1417 Mhz Boost: 1762 Mhz

Memory size / Bus Width 4GB / 64 bits

Graphic Memory Type / Clock 4GB GDDR6/6001MHz

Max. Resolution (DP1.4a) 7680 x 4320 x24 bpp @120Hz/60Hz

Multi Display Support 4 displays

HDCP Compliance Yes
Rear I/O connectors (bracket) mDPx4
Cooling (active/passive) Active
Total power consumption (W) 50W

Form Factor H: 2.7"(68.58mm) x L: 6.4"(162.56mm), single slot

Intel® Arc™ A380 6GB GDDR6 Graphics card4

Engine Clock 2150Mhz
Frame Buffer Size / Width 6GB/96bit

Graphic Memory Type / Clock GDDR6 ,3 pcs/15.5Gbps

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

Max. Resolution (DP) 7680 x4 320@60Hz

Multi Display Support 4 displays

HDCP Compliance Yes

Rear I/O connectors (bracket) DP x3 + HDMI x1

Cooling (active/passive) Active
Total power consumption (W) 75W



Technical Specifications – Graphics

AMD Radeon™ RX 6300 2GB GDDR6 Graphics card

Engine Clock Base: 1512 Mhz Boost: 2040 Mhz

Memory Size/Width 2GB/32bit

Graphic Memory Type/Clock 512M x3 2 GDDR6 ,1 pcs/16Gbps

 Max. Resolution (HDMI)
 7680 x 4320@60Hz

 Max. Resolution (DP)
 7680 x 4320@120Hz

Multi Display Support 2 displays

HDCP Compliance Yes

Rear I/O connectors (bracket) HDMIx1+ DPx1 (FH)

Cooling (active/passive) Active
Total power consumption (W) 57W

Form-factor X:160.2mm/Y:68.9mm/Z: 22.6mm PCB with single slot

HP EliteStudio 8 All-in-One G1i 23.8-inch Desktop AI PC

Intel® UHD Graphics (integrated)

VGA Controller Integrated

DisplayPort™ 2.1 Supports up to UHBR20

Support MST (Multi-Stream Transport), Maximum of 3 displays with Daisy-Chain monitor

Support VESA DSC 1.2b

Support HDCP

Support up to 36 BP

USB-C® DP Alt Mode DisplayPort™ over the optional USB-C® module (Support DP1.4 HBR3)

HDMI (Native) Supports HDMI 2.1 features (Native HDMI support HDMI TMDS 6G; Option HDMI support

HDMI 2.1 FRL12)

Supports HDCP 2.3 (Support HDCP 1.4/2.3)

Supports audio over HDMI

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

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

to provide an optimal balance between graphics and system memory use.

Maximum Color Depth Supports up to 36 BPP (Bit Per Pixel)

Graphics/Video API Support Decode: HEVC/VP9 8K60 12-bit 420/422/444*, AV1 8K60 10-bit 420, AVC 4K60 8-bit 420

Encode: HEVC/VP9 8K30 10-bit 420/444*, AV1 8K30 10-bit 420 (FF accel), AVC 4K60 8-bit

420 HDR

Dolby Vision 420/422 w/ DSC 1.2

DX12 Ultimate

Max. Resolution (DP) UHBR20: 8K60Hz compressed, 5K120Hz compressed

Max. Resolution (Type C) 5120 x 3200@60Hz



Technical Specifications – Graphics

HP EliteStudio 8 All-in-One G1i 27-inch Desktop AI PC

Intel® UHD Graphics (integrated)

VGA Controller Integrated

DisplayPort™ 2.1 Supports up to UHBR20

Support MST (Multi-Stream Transport), Maximum of 3 displays with Daisy-Chain monitor

Support VESA DSC 1.2b

Support HDCP

Support up to 36 BP

HDMI (Native) Supports HDMI 2.1 features (Native HDMI support HDMI TMDS 6G; Option HDMI support

HDMI 2.1 FRL12)

Supports HDCP 2.3 (Support HDCP 1.4/2.3)

Supports audio over HDMI

USB-C® DP Alt Mode DisplayPort™ over the optional USB-C® module (Support DP1.4 HBR3)

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 Supports up to 36 BPP (Bit Per Pixel)

Graphics/Video API Support Decode: HEVC/VP9 8K60 12-bit 420/422/444*, AV1 8K60 10-bit 420, AVC 4K60 8-bit 420

Encode: HEVC/VP9 8K30 10-bit 420/444*, AV1 8K30 10-bit 420 (FF accel), AVC 4K60 8-bit

420 HDR

Dolby Vision 420/422 w/ DSC 1.2

DX12 Ultimate

HEVC 10b Enc/Dec HW VP9 10b Dec HW

HDR Rec. 2020 DX12

Max. Resolution (DP) UHBR20: 8K60Hz compressed, 5K120Hz compressed

Max. Resolution (Type C) 5120 x 3200@60Hz



Technical Specifications – Storage

STORAGE

NOTE: Starting November 1, 2023, HP PCs with Windows require Windows to be installed on SSD. HDD can only be configured as additional data drives and not as the boot drive.

1TB 7200RPM 3.5in SATA HDD

Capacity 1TB

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 storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows) is reserved for system recovery software.

2TB 7200RPM 3.5in SATA HDD

Capacity 2TB

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)

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows) is reserved for system recovery software.

256GB M.2 2280 PCIe NVMe SSD

Capacity 256GB
Interface PCIe NVMe

Minimum Sequential Read3100 MB/s ±20%Minimum Sequential Write1200 MB/s ±20%Logical Blocks500,118,192FeaturesTRIM; L1.2

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows) is reserved for system recovery software.



Technical Specifications – Storage

512GB M.2 2280 PCIe NVMe SSD

Capacity 512GB
Interface PCIe NVMe

Minimum Sequential Read $3500 \text{ MB/s} \pm 20\%$ Minimum Sequential Write $1600 \text{ MB/s} \pm 20\%$ Logical Blocks1,000,215,216

Features TRIM; L1.2

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows) is reserved for system recovery software.

1TB M.2 2280 PCIe NVMe SSD

Capacity 1TB

Interface PCIe NVMe

Minimum Sequential Read3500 MB/s ±20%Minimum Sequential Write2700 MB/s ±20%Logical Blocks2,000,409,264FeaturesTRIM; L1.2

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows) is reserved for system recovery software.

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

Capacity 512GB
Interface PCIE Gen4x4
Minimum Sequential Read 6400 MB/s ±20%
Minimum Sequential Write 3500 MB/s ±20%
Logical Blocks 1,000,215,216
Features TRIM; L1.2; Pyrite 2.0

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows) is reserved for system recovery software.

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

Capacity 1TB

InterfacePCIE Gen4x4Minimum Sequential Read6400 MB/s ±20%Minimum Sequential Write5000 MB/s ±20%Logical Blocks2,000,409,264FeaturesTRIM; L1.2; Pyrite 2.0

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows) is reserved for system recovery software.



Technical Specifications – Storage

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

Capacity 2TB

Interface PCIE Gen4x4

Minimum Sequential Read 6400 MB/s ±20%

Minimum Sequential Write 5000 MB/s ±20%

Logical Blocks 4,000,797,360

Features TRIM; L1.2; Pyrite 2.0

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows) is reserved for system recovery software.

256GB M.2 2280 PCIe NVMe Self Encrypted OPAL2 Value SSD

Capacity 256GB
Interface PCIE NVMe
Minimum Seguential Read 3100 MB/s ±20%

Minimum Sequential Write 1200 MB/s ±20%

Logical Blocks 500,118,192

Features TRIM; L1.2; TCG Opal 2.0

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows) is reserved for system recovery software.

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

Capacity 512GB
Interface PCIE Gen4x4
Minimum Sequential Read 6400 MB/s ±20%
Minimum Sequential Write 3500 MB/s ±20%
Logical Blocks 1,000,215,216

Features TRIM; L1.2; TCG Opal 2.0

NOTE: For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB (for Windows) is reserved for 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 (140g) 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)

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



Technical Specifications – Storage

(typical reads, including

settling)

Power Source Slimline SATA DC power receptacle

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

Environmental conditions

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

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

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

HP 9.5mm Slim DVD Writer Drive

Height 9.5 mm height

Orientation Either horizontal or vertical

Interface type SATA/ATAPI

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

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

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

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

DVD-RW, DVD+RW - Up to 8X DVD-R DL, DVD+R DL - 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 Random DVD-ROM: 170 ms (typical), CD-ROM: 170 ms (typical)

(typical reads, including

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

settling)Stop Time 6 seconds (typical)PowerSource Slimline SATA DC power receptacle

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

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

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

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



Technical Specifications – Networking and Communications

NETWORKING AND COMMUNICATIONS

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

Intel I226-T1 2.5GbE Ethernet Network Adapter	
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 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 (Hash Mode Only) Jumbo Frame 9K
Power consumption	Cable Disconnection: 25mW 100Mbps Full Run: 450mW 1000Mbp Full Run: 1000mW 2500Mbp Full Run: 4500mW 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

Intel® I226-V 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 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 (Hash Mode Only) Jumbo Frame 9K	



Power consumption	Cable Disconnection: 25mW 100Mbps Full Run: 450mW 1000Mbp Full Run: 1000mW 2500Mbp Full Run: 4500mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW
Power Management Management Interface	ACPI compliant – multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption 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® non-vPro™ support with appropriate Intel® chipset components

Intel BE200 Wi-Fi 7 +Bluetooth® 5.4 Wireless Card M.2 320MHz PCIe World-wide WLAN vPro¹		
Wireless LAN Standards	IEEE 802.11a	
	IEEE 802.11b	
	IEEE 802.11g	
	IEEE 802.11n	
	IEEE 802.11ac	
	IEEE 802.11ax	
	IEEE 802.11be	
	IEEE 802.11d	
	IEEE 802.11e	
	IEEE 802.11h	
	IEEE 802.11i	
	IEEE 802.11k	
	IEEE 802.11r	
	IEEE 802.11v	
Interoperability	Wi-Fi certified	
Frequency Band	802.11b/g/n/ax/be	
	• 2.402 – 2.482 GHz	
	802.11a/n/ac/ax/be	
	• 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	
	• 5.955 – 6.415 GHz	
	• 6.435 – 6.515 GHz	
	• 6.535 – 6.875 GHz	
	• 6.895 – 7.115 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: max 300Mbps • 802.11ac: 1733Mbps • 802.11ax: max 2.4Gbps • 802.11be: max 5.76Gbps Modulation Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1 Security² • IEEE and WiFi compliant 64 / 128 bit WEP encryption for each of the security and	or a/b/g mode only
Network Architecture Models Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)	
Roaming IEEE 802.11 compliant roaming between access points	
• 802.11b, 1Mbps: +17dBm minimum • 802.11g, 6Mpbs: +16dBm minimum • 802.11a, 6Mbps: +17dBm minimum • 802.11a, 6Mbps: +17dBm minimum • 802.11n, MCS7(HT20): +14dBm minimum • 802.11n, MCS7(HT40): +13.5dBm minimum • 802.11ac MCS9(VHT20): 13.5dBm minimum • 802.11ac MCS9(VHT40): +13.5dBm minimum • 802.11ac MCS9(VHT80): +12.5dBm minimum • 802.11ac MCS9(VHT160): +10.5dBm minimum • 802.11ax MCS11(HE20)(6GHz): +11.5dBm minimum • 802.11ax MCS11(HE20)(6GHz): +7.5dBm minimum • 802.11ax MCS11(HE80)(6GHz): +7.5dBm minimum • 802.11be MCS13(EHT20)(6GHz): 11.5dBm • 802.11be MCS13(EHT40)(6GHz): 7.5dBm • 802.11be MCS13(EHT40)(6GHz): 7.5dBm • 802.11be MCS13(EHT30)(6GHz): 6.5dBm • 802.11be MCS13(EHT320)(6GHz): 4.5dBm	
• Transmit mode 3.1 W • Receive mode 1.8 W • Idle mode (PSP) 180 mW (WLAN Associated) • Idle mode 50 mW (WLAN unassociated) • Connected Standby 10mW • Radio disabled 8 mW	
Power Management ACPI and PCI Express compliant power management	



Receiver Sensitivity ⁴	•802.11b, 1Mbps: -93.5dBm maximum
	•802.11b, 11Mbps: -85dBm maximum
	• 802.11a/g, 6Mbps: -90.5dBm maximum
	802.11a/g, 54Mbps: -72.5dBm maximum 802.11n, MCS0(HT20): -90dBm maximum
	• 802.11n, MCS7(HT20): -30dBiff maximum
	• 802.11n, MCS0(HT40): -88.5dBm maximum
	• 802.11n, MCS7(HT40): -68.5dBm maximum
	• 802.11ac, MCS9(VHT20): -88.5dBm maximum
	• 802.11ac, MCS9(VHT40): -65.5dBm maximum
	• 802.11ac, MCS9(VHT80): -60.5dBm maximum
	• 802.11ac, MCS9(VHT160): -58.5dBm maximum
	802.11ax, MCS11(HE20)(6GHz): -59.5dBm maximum 802.11ax, MCS11(HE40)(6GHz): -56.5dBm maximum
	• 802.11ax, MCS11(HE80)(6GHz): -53.5dBm maximum
	• 802.11ax, MCS11(HE160)(6GHz): -51.5dBm maximum
	• 802.11be, MCS13(EHT20)(6GHz): -55.5dBm maximum
	• 802.11be, MCS13(EHT40)(6GHz): -53.5dBm maximum
	• 802.11be, MCS13(EHT80)(6GHz): -51.5dBm maximum
	• 802.11be, MCS13(EHT160)(6GHz): -48.5dBm maximum
	• 802.11be, MCS13(EHT320)(6GHz): -45.5dBm maximum
Antenna type	High efficiency antenna with spatial diversity
	Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN
	MIMO communications and Bluetooth communications
Form Factor	PCI-Express M.2 MiniCard
Dimensions	1. Type 2230: 2.3 x 22.0 x 30.0 mm 2. Type 1216: 1.67 x 12.0 x 16.0 mm
Weight	1. Type 2230: 2.8g 2. Type 1216: 1.3g
Operating Voltage	3.3v +/- 9%
Temperature	Operating: 14° to 158° F (–10° to 70° C)
	Non-operating: –40° to 176° F (–40° to 80° C)
Humidity	Operating: 10% to 90% (non-condensing) Non-operating: 5% to 95% (non-condensing)
Altitude	Operating: 0 to 10,000 ft (3,048 m)
	Non-operating: 0 to 50,000 ft (15,240 m)
LED Activity	LED Amber – Radio OFF; LED OFF – Radio ON
	etooth® 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Wireless Card Technology
Bluetooth® Specification	4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Wireless Card 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 I Bluetooth device with a maximum transmit power of +15.5 dBm for BR and +13dBm for EDR.
	1



Power Consumption	Peak (Tx): 330 mW Peak (Rx): 230 mW
	Selective Suspend: 17 mW
Bluetooth® Software Supported	1.Microsoft Windows Bluetooth Software
Link Topology	2.Linux/Chrome OS Bluetooth Software.
Power Management	ACPI and PCI Express compliant power management
	802.11 compliant power saving mode
Certifications	FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407
	ETSI 300 328, ETSI 301 893, ETSI 303 687
Bluetooth® Profiles Supported	Bluetooth 4.1-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
	Bluetooth 4.2 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)
	Bluetooth 5.2
	ESR9/10 Compliance
	LE Advertisement Extensions
	Channel Selection Algo
	Limited High Duty Cycle Non-Connectable Advertising
	2Mbps LE
	LE Long Range
	Bluetooth 5.3
	Host to Controller Encryption Key Control Enahancements
	Compliance to the latest Errata Section 12.3 of Bluetooth 5.3 specification

^{1.} Wi-Fi 7 requires a Wi-Fi 7 router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 7 is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 7 is supported. Wi-Fi 7 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.



^{2.} Check latest software/driver release for updates on supported security features.

^{3.} The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

^{4.} Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

Intel BE200 Wi-Fi 7 +Bluetootl	n® 5.4 Wireless Card M.2 320MHz PCIe World-wide WLAN non-vPro¹	
Wireless LAN Standards	IEEE 802.11a	
	IEEE 802.11b	
	IEEE 802.11g	
	IEEE 802.11n	
	IEEE 802.11ac	
	IEEE 802.11ax	
	IEEE 802.11be	
	IEEE 802.11d	
	IEEE 802.11e	
	IEEE 802.11h	
	IEEE 802.11i	
	IEEE 802.11k	
	IEEE 802.11r	
	IEEE 802.11v	
Interoperability	Wi-Fi certified	
Frequency Band	802.11b/g/n/ax/be	
	• 2.402 – 2.482 GHz	
	802.11a/n/ac/ax/be	
	• 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	
	• 5.955 – 6.415 GHz	
	• 6.435 – 6.515 GHz	
	• 6.535 – 6.875 GHz	
	• 6.895 – 7.115 GHz	
Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps	
Data Nates	• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	• 802.11n: max 300Mbps	
	• 802.11ac: 1733Mbps	
	• 802.11ax: max 2.4Gbps	
	• 802.11be: max 5.76Gbps	
Modulation	Direct Sequence Spread Spectrum	
	OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM, 4096QAM	
Security ²	• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only	
	AES-CCMP: 128 bitIn 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 Models	Ad-hoc (Peer to Peer)	
	Infrastructure (Access Point Required)	
Roaming	IEEE 802.11 compliant roaming between access points	



Output Power³	• 802.11b, 1Mbps: +17dBm minimum
	• 802.11g, 6Mpbs: +16dBm minimum
	• 802.11a, 6Mbps: +17dBm minimum
	• 802.11n, MCS7(HT20): +14dBm minimum
	• 802.11n, MCS7(HT40): +13.5dBm minimu
	• 802.11ac MCS9(VHT20): 13.5dBm minimum
	• 802.11ac MCS9(VHT40): +13.5dBm minimum
	• 802.11ac MCS9(VHT80): +12.5dBm minimum
	• 802.11ac MCS9(VHT160): +10.5dBm minimum
	• 802.11ax MCS11(HE20)(6GHz): +11.5dBm minimum
	• 802.11ax MCS11(HE40)(6GHz): +7.5dBm minimum
	• 802.11ax MCS11(HE80)(6GHz): +7.5dBm minimum
	• 802.11ax MCS11(HE160)(6GHz): +7.5dBm minimum
	• 802.11be MCS13(EHT20)(6GHz): 11.5dBm
	• 802.11be MCS13(EHT40)(6GHz): 7.5dBm
	• 802.11be MCS13(EHT80)(6GHz): 7.5dBm
	• 802.11be MCS13(EHT160)(6GHz): 6.5dBm
	• 802.11be MCS13(EHT320)(6GHz): 4.5dBm
Power Consumption	• Transmit mode 3.1 W
	Receive mode 1.8 W
	• Idle mode (PSP) 180 mW (WLAN Associated)
	• Idle mode 50 mW (WLAN unassociated)
	Connected Standby 10mW
	• Radio disabled 8 mW
Power Management	ACPI and PCI Express compliant power management
	802.11 compliant power saving mode
	· · · · ·
Receiver Sensitivity ⁴	•802.11b, 1Mbps: -93.5dBm maximum
	•802.11b, 11Mbps: -85dBm maximum
	• 802.11a/g, 6Mbps: -90.5dBm maximum
	• 802.11a/g, 54Mbps: -72.5dBm maximum
	• 802.11n, MCS0(HT20): -90dBm maximum
	• 802.11n, MCS7(HT20): -71.5dBm maximum
	• 802.11n, MCS0(HT40): -88.5dBm maximum
	• 802.11n, MCS7(HT40): -68.5dBm maximum
	• 802.11ac, MCS9(VHT20): -88.5dBm maximum
	• 802.11ac, MCS9(VHT40): -65.5dBm maximum
	• 802.11ac, MCS9(VHT80): -60.5dBm maximum
	• 802.11ac, MCS9(VHT160): -58.5dBm maximum • 802.11ax, MCS11(HE20)(6GHz): -59.5dBm maximum
	• 802.11ax, MCS11(HE20)(6GHz): -59.5dBm maximum
	• 802.11ax, MCS11(HE40)(6GHz): -58.5dBm maximum
	 802.11ax, MCS11(HE160)(6GHz): -51.5dBm maximum 802.11be, MCS13(EHT20)(6GHz): -55.5dBm maximum
	• 802.11be, MCS13(EH120)(6GHz): -53.5dBm maximum
	• 802.11be, MCS13(EH140)(6GHz): -53.5dBii iiiaxiiiidiii • 802.11be, MCS13(EHT80)(6GHz): -51.5dBm maximum
	• 802.11be, MCS13(EH180)(6GHz): -48.5dBm maximum
	802.11be, MCS13(EHT160)(6GHz): -48.5dBm maximum
Antonna tuno	
Antenna type	High efficiency antenna with spatial diversity Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN
	MIMO communications and Bluetooth communications
Form Factor	PCI-Express M.2 MiniCard
Dimensions	1. Type 2230: 2.3 x 22.0 x 30.0 mm
	2. Type 1216: 1.67 x 12.0 x 16.0 mm



Weight	1. Type 2230: 2.8g 2. Type 1216: 1.3g			
Operating Voltage	3.3v +/- 9%			
Operating Voltage	·			
Temperature	Operating: 14° to 158° F (–10° to 70° C) Non-operating: –40° to 176° F (–40° to 80° C)			
Humidity	Operating: 10% to 90% (non-condensing) Non-operating: 5% to 95% (non-condensing)			
Altitude	Operating: 0 to 10,000 ft (3,048 m) Non-operating: 0 to 50,000 ft (15,240 m)			
LED Activity	LED Amber – Radio OFF; LED OFF – Radio ON			
HP Integrated Module with Blueto	oth® 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Wireless Card Technology			
Bluetooth® Specification	4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Wireless Card 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 ClassI Bluetooth device with a maximum transmit power of +15.5 dBm for BR and +13dBm for EDR.			
Power Consumption	Peak (Tx): 330 mW Peak (Rx): 230 mW Selective Suspend: 17 mW			
Bluetooth® Software Supported Link Topology	Microsoft Windows Bluetooth Software Linux/Chrome OS Bluetooth Software.			
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode			
Certifications	FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407 ETSI 300 328, ETSI 301 893, ETSI 303 687			



Technical Specifications – Networking and Communications

Bluetooth® Profiles Supported

Bluetooth 4.1-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**

rain Nudging &Interlaced Scan Bluetooth 4.2 ESR08 Compliance E Secure Connection- Basic/Full E 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)

Bluetooth 5.2

ESR9/10 Compliance

LE Advertisement Extensions

Channel Selection Algo

Limited High Duty Cycle Non-Connectable Advertising

Mbps LE LE Long Range

Bluetooth 5.3

Host to Controller Encryption Key Control Enahancements

Compliance to the latest Errata Section 12.3 of Bluetooth 5.3 specification

- 1. Wi-Fi 7 requires a Wi-Fi 7 router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 7Is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 7Is supported. Wi-Fi 7Is 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.
- 2. Check latest software/driver release for updates on supported security features.
- 3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).



HP Elite Series 8 G1i Desktops AI PCs

QuickSpecs



Technical Specifications — Networking and Communications

Realtek RTL8852CE 802.11ax 2x2 Wi-Fi 6E + Bluetooth® 5.3 Wireless Card¹

(802.11ax 2x2, supporting gigabit data rate)

(802.11ax 2x2, supporting gigab	oit data rate)
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 802.11d IEEE 802.11h IEEE 802.11e IEEE 802.11h IEEE 802.11h
Interoperability	IEEE 802.11k Wi-Fi certified
Frequency Band	802.11b/g/n/ax • 2.402 – 2.482 GHz 802.11a/n/ac/ax • 5.15 – 5.25 GHz
	• 5.25 – 5.35 GHz • 5.47 – 5.725 GHz • 5.825 – 5.850 GHz • 5.955 – 6.415 GHz • 6.435 – 6.515 GHz • 6.535 – 6.875 GHz • 6.895 – 7.115 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, (20MHz, 40MHz, ,80MHz & 160MHz) 802.11ax: MCS0 ~ MCS11, (20MHz, 40MHz, ,80MHz & 160MHz)
Modulation	Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
Security ²	 •IEEE and WiFi 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 (personal) certification • IEEE 802.11i • WAPI • EAP
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power ³	• 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		
• 802.11ax HE80(6GHz): +10dBm minimum		
• 802.11ax HE160(6GHz): +10dBm minimum		
•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		
•Radio disabled: 8 iliw		
ACPI and PCI Express compliant power management		
802.11 compliant power saving mode		
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		
802.11ac, MCS9(VHT80): -59dBm maximum		
802.11ac, MCS9(VHT160): -58.5dBm maximum		
•802.11ax, MCS11(HE40): -57dBm maximum		
•802.11ax, MCS11(HE80): -54dBm maximum		
•802.11ax, MCS11(HE160): -53.5dBm maximum		
High efficiency antenna with spatial diversity		
Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN		
MIMO communications and Bluetooth communications		
PCI-Express M.2 MiniCard		
1. Type 2230: 2.3 x 22.0 x 30.0 mm		
1. Type 2230: 2.8g		
3.3v +/- 9%		
Operating: 14° to 158° F (–10° to 70° C)		
Non-operating: -40° to 176° F (-40° to 80° C)		
Operating: 10% to 60% (non-condensing) Non-operating: 5% to 95% (non-condensing)		
Operating: 0 to 10,000 ft (3,048 m)		
Non-operating: 0 to 50,000 ft (15,240 m)		
N/A		



Bluetooth Specification	tooth® 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Card Technology 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Card 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 Fower	transmit power of + 4 dBm for BR and EDR.		
Power Consumption	Peak (Tx): 330 mW		
i ower consumption	Peak (Rx): 230 mW		
	Selective Suspend: 17 mW		
Bluetooth® Software Supported	Microsoft Windows Bluetooth Software		
Link Topology			
Power Management	Microsoft Windows ACPI, and USB Bus Support		
Certifications	FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407		
	ETSI 300 328, ETSI 301 893, ETSI 303 687		
Bluetooth® Profiles Supported	Bluetooth 4.1-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		
	Bluetooth 4.2 ESR08 Compliance		
	LE Secure Connection- Basic/Full LE Privacy 1.2 –Link Layer Privacy		
	LE Privacy 1.2 –Enik 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)		
	Bluetooth 5.2		
	ESR9/10 Compliance		
	LE Advertisement Extensions		
	Channel Selection Algo		
	Limited High Duty Cycle Non-Connectable Advertising		
	2Mbps LE		
	LE Long Range		
	Windows Bluetooth profiles support		
	Bluetooth 5.3 Periodic Advertisement interval		
	Encryption key size control enhancements		



- 1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E 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.
- 2. Check latest software/driver release for updates on supported security features.
- 3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

HP Flex 1GbE Fiber LC Single Port				
Connector	Fiber			
Cabling	I GbE over Category OM1 (or better) up to 100m			
Controller	Microchip LAN7801			
Data Rates Supported	100/1000 Mbps			
Compliance	IEE 802.1q priority enconding/tagging (QoS, CoS)			
	IEE 802.1q VLAN tagging			
	IEE 802.3x flow control			
Bus Architecture	USB			
Power requirement	Requires 3.3V (Integrated regulators for code Vdc)			
Boot ROM support	Yes			
Network transfer mode	Full-duplex; Half duplex			
Network transfer rate	100BASE-X (Half-duplex) 100Mbps			
	1000BASE-X (Half-duplex) 1000Mbps			
	1000BASE-X (Full-duplex) 2000Mbps			
Operating temperature	32° to 95° F (0° to 35°C)			
calvin	1.5 x 1.7 x 0.75 ln (3.84 x 4.3 x 1.9 cm)			
Operating System Driver Support	upport Windows 11 64-Bit			
	Linux [®]			



Technical Specifications – Input/Output Devices

I/O DEVICES

Physical Characteristics	Keys	104, 105, 107, 109 layout (depending upon country)		
	Dimensions (LxWxH)	17.34 x 5.68 x 0.78 in (440.6 x 144.5 x 1.98 cm)		
	Weight	1.32 lb (598g)		
Electrical	Operating voltage	5 VDC, +/-5%		
	Power consumption	100mA (All LED on)		
	System Interface	USB Type A plug connector		
	ESD	Contact Discharge: 8 KV Air Discharge: 12.5 KV		
	EMI - RFI	Conforms to FCC rules for a Class B computing device		
Mechanical	Keycaps	Low-profile design		
	Switch actuation	60±10g nominal peak force with tactile feedback		
	Switch life	10 million keystrokes (Life tester)		
	Switch type	Contamination-resistant switch membrane		
	Key-leveling mechanisms	For all double-wide and greater-length keys		
	Cable length	6 ft (1.8 m)		
Environmental	Acoustics	43-dBA maximum sound pressure level		
	Operating temperature	50° to 122° F (10° to 50° C)		
	Non-operating temperature	-22° to 140° F (-30° to 60° C)		
	Operating humidity	10% to 90% (non-condensing at ambient)		
	Non-operating humidity	20% to 80% (non-condensing at ambient)		
	Operating shock	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	CE Marking, TUV, EAC, FCC, cUL	CE Marking, TUV, EAC, FCC, cULus/CSAus, ICES, RCM, VCCI, KCC, BSMI		
Ergonomic compliance	ISO 9241-4, TUVGS			



Technical Specifications – Input/Output Devices

HP 125 v2 AntiMicrobial W	Jired Keyboard (China only)			
Physical Characteristics	Keys	104/105/107/109 layout (depending upon country)		
	Dimensions (LxWxH)	436 x 138 x20.7 mm		
	Weight	471g		
Electrical	Operating voltage	5V +- 5%		
	Power consumption	50mA		
	System Interface	USB Type A plug connector		
	ESD	Contact Discharge: 8 KV Air Discharge: 12.5 KV		
	EMI - RFI	Conforms to FCC rules for a Class B computing device		
Mechanical	Keycaps	Low-profile design		
	Switch actuation	55±10g nominal peak force with tactile feedback		
	Switch life	10 million keystrokes (Life tester)		
	Switch type	Contamination-resistant switch membrane		
	Key-leveling mechanisms	For all double-wide and greater-length keys		
	Cable length	1.8 m		
Environmental	Acoustics	43-dBA maximum sound pressure level		
	Operating temperature	50° to 122° F (10° to 50° C)		
	Non-operating temperature	-4° to 149° F (-20° to 65° C)		
	Operating humidity	10% to 95% (non-condensing at ambient)		
	Non-operating humidity	0% to 95% (non-condensing at ambient)		
	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, cUL, FCC, CE, TUV GS, VCCI,	UL, cUL, FCC, CE, TUV GS, VCCI, BSMI, RCM, KCC, USB-IF, WHQL, EN/IEC 60601-1		
Ergonomic compliance	ANSI HFS 100, ISO 9241-4, and	ANSI HFS 100, ISO 9241-4, and TUVGS		



Technical Specifications – Input/Output Devices

Physical Characteristics	Keys	104, 105, 107,109 layouts			
	Dimensions(LxWxH)	18.86*4.55*0.66 in (4	m)		
	Weight	1.00 lb(452g)			
Electrical	Operating voltage	5 VDC, +/-5%			
	Power consumption	50 mA Max (All LED on)			
	System Interface	USB Port			
	ESD	Contact Discharge: 8 KV Air Discharge: 15 KV (Class B)			
	EMI - RFI	European Standard Et FCC/CFR 47: Part 15 C	N 55022: 2006+A1: 20 lass B	07, Class B.	
Mechanical	Keycaps	2.0mm +/-0.2mm at 1	20gf Key travel		
Environmental	Operating temperature	10° C to 90° C			
	Non-operating temperature	-30° C to 95° C	-30° C to 95° C		
	Operating humidity	N/A			
	Non-operating humidity	10% to 90% (non-condensing at ambient)			
	Operating shock	N/A	N/A		
	Non-operating shock	i. Half-Sine Shock — End-Use Handling, Non-Operational Sample size: 5pcs. Condition: Sample power off. Axis: X, Y, Z axis (all 6 faces) — sample normal mode of operation. Number of shocks: 1 shock/face. Pulse duration: < 3 ms Velocity change: 50lps (inch-per-second)- 65lps desired. ii. Trapezoidal Shock- Transportation Environment, Non-Operational Sample size: 5pcs. Condition: Sample power off. Orientation: All six faces: Front, Rear, Left, Right, Bottom, a Top. Configuration: As intended for shipment Number of shocks: 1 shock/face. Minimum faired acceleration: 30G's. Test also at 40 and 50 find margin. Velocity change: 266lps (inch-per-second) for product mas 20 <m<40lb< td=""></m<40lb<>			
		Frequency (Hz)	Slope (dB/oct)	PSD (g²/Hz)	
	Operating vibration	5-350	0	0.0001	
		350-500	-6	-	
		500	-	0.00005	
		(~0.21G _{nms})			
		Total Test time: 10 minutes			
	Non-operating vibration	Frequency (Hz)	Slope (dB/oct)	PSD (g²/Hz)	



		5.100	0	0.015		
		100-137	-6	-		
		137-350	0	0.008		
		350-500	-6	-		
		500	-	0.0039		
	Drop (out of box)	76cm on carpet, six-drop sequence				
	Drop (in box)	10 times drop includir surface. Drop Height: 91cm	ng 6 faces, one corner	and 3 edges on rigid		
Approvals	CB, CE, FCC, ICES, EAC, N	M-NYCE SCT, RCM, BIS, VCCI, KC, BSMI				
Ergonomic compliance	TUVGS	TUVGS				

Physical Characteristics		US-109 Keys		
_	Veus	POD-110 Keys		
	Keys	JP-114 Keys		
		LA-110 Keys		
	Dimensions (LxWxH)	420.47 x 120.7 x 17.66(mm); 16.56 x 4.75 x 0.7(in)		
	Weight	1.1lb; 499g		
Electrical	Operating voltage	2.5V~3.8V		
	Power consumption	2.4G Active=0.833mA Idle=0.065mA Sleep=0.03mA Power off=0.006mA		
		BLE Active=0.414mA Idle=0.048 Sleep=0.03mA Power off=0.006mA		
	System Interface	2.4GHz Wireless +Bluetooth 5.3		
	ESD	4kV, Contact Discharge 8kV, Air Discharge		
	EMI - RFI	-3dB		
Mechanical	Key Structure (Switch type and feeling) (Plunger, Scissor, Mechanical)	Scissor, 2.0mm ± 0.3mm low profile key travel		
	Key actuation	Contact Point: 1.1±0.4mm		
	Key life	10 million keystrokes (Life tester)		
	Key structure type	Scissor		
	Key-leveling mechanisms	balance bar		
Environmental	Operating temperature	-29°C ~ 60°C		
	Non-operating temperature	-20°C ~ 65°C		
	Operating humidity	N/A		
	Non-operating humidity	0-95%RH		
	Operating shock	40G, 2ms, 1 impact on the \pm X, \pm Y, and \pm Z axes, with a total of 6 impacts		
	Non-operating shock	240G, 2ms, 1 impact on the \pm X, \pm Y, and \pm Z axes, with a total 6 impacts		
	Operating vibration	N/A		
	Non-operating vibration	Frequency: 5-55-5 (Hz), Amplitude: 2mm, Vibration direction: X, Y, Z, three axes in total, Cycle time: 3 minutes/CYCLE, Number of cycles: 10 times,		
		Test time: 30 minutes/axis, total 90 minutes		



	Drop (out of box)	6 faces & 4 corners, 76cm		
	Drop (in box)	1 corner, 3 edge, 6 flat		
Approvals	CB; FCC; IC; RCM; WPC; NTC; IMDA	A; BSMI; NCC; SRRC; SIRIM; TRA; EAC; ICASA; UKCA; KCC; TUV;		
	RATEL; IFETEL; BIS; MOICT; iCTgatar; RoHS; Subtel; NKRZI			

Physical Characteristics	Keys	Left/right key		
	Dimensions (LxWxH)	4.09 x2.50 x 1.40 in (103.8x 63.4 x 35.5 mm)		
	Weight	0.16 lb (72g)		
Electrical	Operating voltage	5 VDC, +/-0.25V		
	Power consumption	100 mA Max		
	System Interface	USB Port		
	ESD	Contact Discharge: 8 KV Air Discharge: 15 KV (Class B)		
	EMI - RFI	European Standard EN 55022: 2006+A1: 2007, Class B. FCC/CFR 47: Part 15 Class B		
Mechanical	Keycaps	0.3mm key travel		
	Key actuation	75±20g		
	Key life	1million cycles		
	Key structure type	Tact Switch		
	Key-leveling mechanisms	N/A		
Environmental	Operating temperature	10° to 90° C		
	Non-operating temperature	-30° C to 95° C		
	Operating humidity	N/A		
	Non-operating humidity	10% to 90% (non-condensing at ambient)		
	Operating shock	N/A		
	Non-operating shock	i. Half-Sine Shock – End-Use Handling, Non-Operational Sample size: 5pcs. Condition: Sample power off. Axis: X, Y, Z axis (all 6 faces) – sample normal mode of operation. Number of shocks: 1 shock/face. Pulse duration: < 3 ms Velocity change: 50lps (inch-per-second)- 65lps desired. ii. Trapezoidal Shock- Transportation Environment, Non-Operational Sample size: 5pcs. Condition: Sample power off. Orientation: All six faces: Front, Rear, Left, Right, Bottom, and Top. Configuration: As intended for shipment Number of shocks: 1 shock/face. Minimum faired acceleration: 30G's. Test also at 40 and 50G's to find margin. Velocity change: 266lps (inch-per-second) for product mass (m 20 <m<40lb< td=""></m<40lb<>		



		Frequency (Hz)	Slope (dB/oct)	PSD (g²/Hz)			
		5-350	0	0.0001			
	On a continua college di con	350-500	-6	-			
	Operating vibration	500	-	0.00005			
			(~0.21G _{nms})				
		Tot	al Test time: 10 minut	es			
		Frequency (Hz)	Slope (dB/oct)	PSD (g²/Hz)			
	Non-operating vibration	5.100	0	0.015			
		100-137	-6	-			
		137-350	0	0.008			
		350-500	-6	-			
		500	-	0.0039			
	Drop (out of box)	76cm on carpet, six-c	lrop sequence				
	Drop (in box)	N/A	N/A				
Approvals	CB, CE, FCC, cULus, ICES, EAC	, NOM-NYCE SCT, RCM, VC	CI, KC, BSMI				
Ergonomic compliance	TUVGS						

Dimensions (HxLxW)	112 x 63 x 36.2 mm				
Weight	85 g				
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	40 g, six surfaces			
	Non-operating shock	80 g, six surfaces			
	Operating vibration	2-g peak acceleration			
	Non-operating vibration	4-g peak acceleration			
Electrical	Operating voltage	5 VDC, +/-5%			
	Power consumption (typical)	100mA			
	Resolution	1,200 DPI			
	Sensor	Optical/ Laser USB mouse sensor			
	Tracking speed	30 inch/sec (max)			
	Tracking acceleration	8G(max), 1G=9.8m/s2			
Mechanical	Connector	USB			
	Cable length	6 ft (1.8 m)			



	Color	Jack Black
Regulatory approvals	Compliant	UL, FCC, CE Mark, TUV GS, VCCI, BSMI, RCM, KCC, EAC

Dimensions (HxLxW)	114.89 x 73.26 x 39.86 (mm); 4.52 x 2.88 x 1.57 (in)				
Weight	90.1(g); 0.2(lb)				
Environmental	Operating temperature	-29°C ~ 60°C			
	Non-operating temperature	-20°C ~ 65°C			
	Operating humidity	N/A			
	Non-operating humidity	0-95%RH			
	Operating shock	40G, 2ms, 1 impact on the \pm X, \pm Y, and \pm Z axes, with a total of 6 impacts			
	Non-operating shock	240G, 2ms, 1 impact on the \pm X, \pm Y, and \pm Z axes, with a total of 6 impacts			
	Operating vibration	N/A			
	Non-operating vibration	Frequency: 5-55-5 (Hz), Amplitude: 2mm, Vibration direction: X, Y, Z, three axes in total, Cycle time: 3 minutes/CYCLE, Number of cycles: 10 times, Test time: 30 minutes/axis, total 90 minutes			
Electrical	Operating voltage	2.5V~3.8V			
	Power consumption (typical)	2.4G Active=1.126mA Idle=0.108mA Sleep=0.042mA Power off=0.007mA BLE Active=1.057mA Idle=0.102mA Sleep=0.044mA Power off=0.005mA			
	Resolution	1,200 DPI (Default) Range: 800->1200 (default)->1600->2400->3600->4000 DPI Adjustable by HPX (or HPAC) from 800 to 4000, every 50 dpi per step			
	Sensor	PAW3220DB			
	Tracking speed (Report rate)	125Hz			
	Tracking acceleration	2.4GHz Wireless and Bluetooth			
Mechanical	Color	Black			
Regulatory approvals	Compliant	CB; FCC; IC; RCM; WPC; NTC; IMDA; BSMI; NCC; SRRC; SIRIM; TRA; EAC; ICASA; UKCA; KCC; TUV; RATEL; IFETEL; BIS; MOICT; iCTgatar; RoHS; Subtel; NKRZI			



Technical Specifications – Audio/Multimedia

AUDIO/MULTIMEDIA

HP EliteDesk 8 Mini G1i Desktop AI PC

Type Integrated

HD Stereo Codec Realtek ALC3252

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

HP EliteDesk 8 SFF G1i Desktop AI PC

Type Integrated
HD Stereo Codec Realtek ALC 3252

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

Rear: Line-out, Line-in*, 3.5mm and support stereo and retasking

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

*NOTE: System default is line-out. Line-in / Line-out can be adjusted through the audio setting



Technical Specifications – Audio/Multimedia

HP Elite Tower 800/880 G9 Desktop PC

Type Integrated

HD Stereo Codec Realtek ALC 3252

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

Rear: Line-out, Line-in*, 3.5mm and support stereo and retasking

Internal Speaker Amplifier 2W class D mono amplifier for the internal speaker only. External speakers must be powered Multi-streaming Capable Playback multi-streaming can be enabled in the audio control panel to allow independent audio

streams to be sent to/from the front and rear jacks or integrated speaker.

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

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

Wavetable Syntheses Yes - Uses OS soft wavetable

Analog Audio Yes

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

HP EliteStudio 8 All-in-One G1i 23.8 / 27-inch Desktop AI PC

Type Integrated

HD Stereo Codec Realtek ALC3274

Audio I/O Ports Down facing 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



^{*}NOTE: System default is line-out. Line-in / Line-out can be adjusted through the audio setting

Technical Specifications – Integrated Webcam and Microphone

INTEGRATED WEBCAM AND MICROPHONE

Integrated Webcam and Microphone

Optional integrated 5 MP Webcam + Color Light Sensor with integrated dual array digital microphones;

Optional integrated 5 MP Webcam + IR Sensor + ISP + Color Light Sensor with integrated dual array digital microphones (Supports Windows Hello and human presence detection))



Technical Specifications – Power

POWER

HP EliteDesk 8 Mini G1i Desktop AI 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 8 SFF G1i Desktop AI 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 8 Tower G1i / G1i E Desktop AI 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 EliteStudio 8 All-in-One G1i 23.8 / 27-inch Desktop AI PC

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)

	<u>Mini</u>	SFF	TWR	Ai0
External Power Supplies ¹	90W EPS, active PFC, 88% average efficiency at 115V & 89% at 230Vac 100W EPS, active PFC, 88% average efficiency at 115V & 89% at 230Vac 120W EPS, active PFC, 88% average efficiency at 115V & 89% at 230Vac	N/A	N/A	N/A



Technical Specifications – Power

Internal Power Supply	150W EPS, active PFC, 88% efficiency in 115Vac / 89% efficiency in 230Vac 180W EPS, active PFC, 88% average efficiency at 115V & 89% at 230Vac	280W active PFC Efficiency at 115Vac 80PLUS Platinum certified 90/92/89% efficient at 20/50/100% load Efficiency at 230Vac 91/93/90% at 20/50/100% load	500W/280W/400W active PFC Efficiency at 115Vac 80PLUS Platinum certified 90/92/89% efficient at 20/50/100% load Efficiency at 230Vac 91/93/90% at 20/50/100% load Which meet 80PLUS Gold	280W active PFC, Efficiency at 115Vac 80PLUS Platinum certified 90/92/89% efficient at 20/50/100% load Efficiency at 230Vac 90/92/89% at 20/50/100% load Which meet 80PLUS Platinum
Operating Voltage Range	90Vac~264Vac	90Vac~264Vac	90Vac~264Vac	90Vac~264Vac
Rated Voltage Range	100Vac~240Vac	100Vac~240Vac	100Vac~240Vac	100Vac~240Vac
Rated Line Frequency	50HZ~60HZ	50HZ~60HZ	50HZ~60HZ	50HZ~60HZ
Operating Line Frequency	47HZ~63HZ	47HZ~63HZ	47HZ~63HZ	47HZ~63HZ
	90W≦1.7A 100W≦1.6A 120W≦1.7A 150W≦2.5A 180W≦2.5A	280W Platinum≤3.3A 180W Gold ≤2.3A	400W Platinum≦5.2A 280W Platinum≦3.3A 500W Platinum≦6A	280W≦3.2A
DC Output	+19.5V	+12V	+12V	+20V

^{1.} External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.



Technical Specifications – Power

	<u>Mini</u>	SFF	TWR	Ai0
Current Leakage (NFPA 99: 2012)	Less than 40 microamps of leakage current at 250 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 40 microamps of leakage current at 250 Vac with the ground wire intact with normal polarity, as required for Non-patient Electrical Appliances and Equipment used in a patient care facility or that contact patients in normal use. Per section 10.3.5.1.	Less than 500 microamps of leakage current at 264 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 264 Vac with the ground wire intact with normal polarity, as required for Non-patient	Less than 500 microamps of leakage current at 264 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 264 Vac with the ground wire intact with normal polarity, as required for Non-patient Electrical Appliances and Equipment used in a patient care facility or that contact patients in normal use. Per section 10.3.5.1.	Less than 500 microamps of leakage current at 264 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 264 Vac with the ground wire intact with normal polarity, as required for Non- patient Electrical Appliances and Equipment used in a patient care facility or that contact patients in normal use. Per section 10.3.5.1.
Power Supply Fan	N/A	70 mm variable speed	70 mm variable speed	N/A
Power cord length	6.0 ft. (1.83 m) ¹	6.0 ft. (1.83 m) ²	6.0 ft. (1.83 m) ²	6.0 ft. (1.83 m) ^{1,2}
External Power Adapter	External power	Internal power	Internal power supply	Internal power supply
Dimensions	90W: 127 x 51 x 30 mm 100W: 136 x 60 x 22 mm 120W: 138 x 68.5 x 25.4 mm 150W: 148 x 75.5 x 25.4 mm 180W: 165.5 x 75.9 x 25.4 mm	165 x 95 x 73 mm	165 x 95 x 73 mm	90 x 130 x 26 mm
Total Cord Length	1 m, 6.0 ft. (1.83 m)	6.0 ft. (1.83 m)	6.0 ft. (1.83 m)	6.0 ft. (1.83 m)

- ${\bf 1.\,Power\,cord\,length\,will\,be\,varied\,from\,different\,type\,of\,cords\,start\,from\,1.8m.}$
- 2. The length of India power cord is 2.0m

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 Load	-	85%	88%	90%	92%	115Vac/60HZ
	PF>0.9	PF>0.9	PF>0.9	PF>0.9	PF>0.95	115Vac/60HZ
100% of Rated Load	70%	82%	85%	87%	89%	115Vac/60HZ
	PF>0.9	PF>0.9	PF>0.9	PF>0.9	PF>0.9	230Vac/50HZ



Technical Specifications – Weights and Dimensions

WEIGHTS & DIMENSIONS

	<u>Mini</u>	SFF	TWR	AiO
Chassis (WxDxH)	6.97 x 7.13 x 1.35 in (177 x 181 x 34 mm)	11.95 x 12.13 x 3.94 in (303.5 x 308 x 100 mm)	6.1 x 12.13 x 13.27 in (155 x 308 x 337 mm)	
System Volume	66.86 cu in (1.09 L)	570.57 cu in (9.35 L)	982 cu in (16.1 L)	
Standard System Weight	2.97 lb (1.35 kg)	10.4 lb (4.7 kg)	13.7 lb (6.22 kg)	
Heavy Configuration Weight	N/A	11.5 lb (5.21 kg)	15.6 lb (7.09 kg)	
Stand Dimensions (WxDxH)	117 x 160 x 20 mm	151.7 x 199.8 x 38.2mm	N/A	
Packaging (WxDxH)	Packaging 1: 18.9 x 4.1 x 9.4 in (481 x105 x 240 mm) Packaging 2 ¹ : 19.6 x 5.2 x 9.3 in (498 x x132 x 235 mm)	7.87 x 19.65 x 15.51 in (200 x 499 x 394 mm) MPP:7.87 x 19.65 x 15.51 in (200 x 499 x 394 mm)	15.75 x 19.65 x 11.30 in (400 x 499 x 287 mm) MPP: 15.75 x 19.65 x 11.30 in (400 x 499 x 287 mm)	
Shipping Weight	2.95 kg (6.49 lb)	13.04 lb (5.92 kg) MPP: 13.74 lb (6.24 kg)	18.46 lb (8.38 kg) MPP : 19.34 lb (8.78kg)	
Multipack Packaging	(515 x 420 x 636 mm)	8 units per pack 32 units per pallet 1200 x 1000 x 1317 mm (include the pallet)	5-units per pack 20 per pallet 1200 x 1000 x 1310 mm (including pallet)	See the table below.
Palletization Profile (Molded Pulp)	Palletization 1: 22-units per layer 8 layers max 176 units per pallet 46.14 x 37.87 x 81.5 in (1172 x 962 x 2070 mm) (including pallet) Palletization 2: 10-units per layer 10 to 19 layers max depending on details of freight 100 or 190 units per pallet depending on details of freight 46.26 x 39.21 x 103.74 in, (1175 x 996 x 2635 mm) (including pallet)	6 units per layer 12 layers max 72 units per pallet 1200 x 1000 x 2494 mm (include the pallet)	6-units per layer 8 layesr max 48 per pallet 1200 x 1000 x 2416 mm (including pallet)	



Technical Specifications – Weights and Dimensions

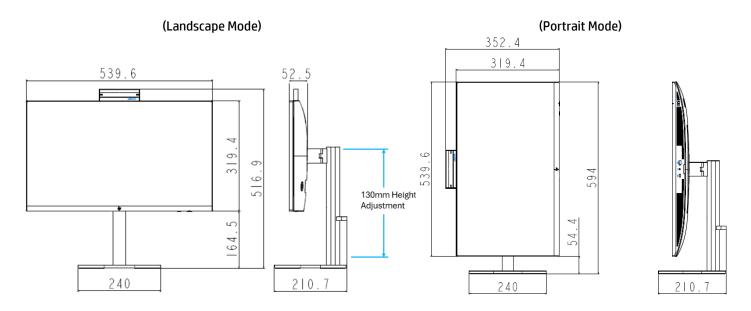
- 1. Only available on selected US, Brazil & Japan SKU (HP EliteDesk 8 Mini G1i Desktop AI PC).
- 2. Actual weight depends on configuration.
- 3. Packaging material used will vary by country.
- 4. TWR/SFF system weight uses 1 HDD + 1 ODD + 1 DIMM configuration.
- 5. The palletization is for single pack.
- 6. Palletization options depend on the factories.



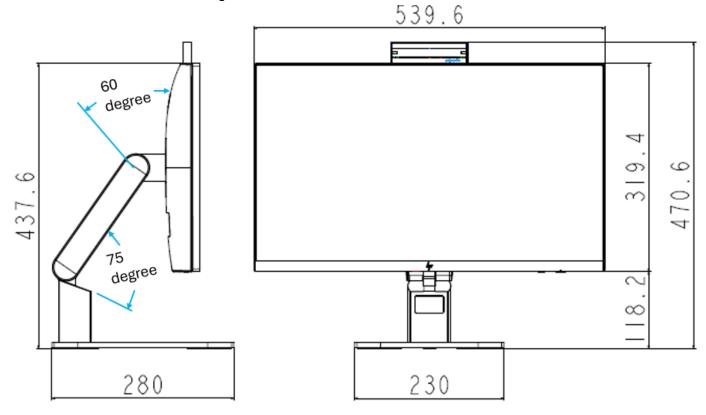
Technical Specifications – Stands and Dimensions

STANDS AND DIMENSIONS

HP EliteStudio8 G1i 23.8" AlO Adjustable Height Stand



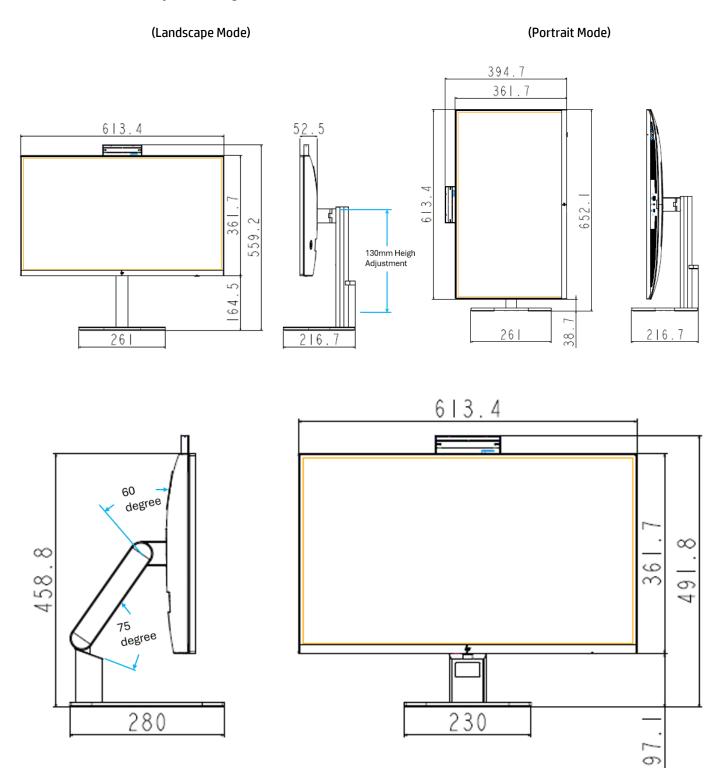
HP EliteStudio8 G1i 23.8" AIO Articulating Stand





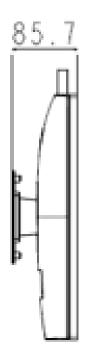
Technical Specifications – Stands and Dimensions

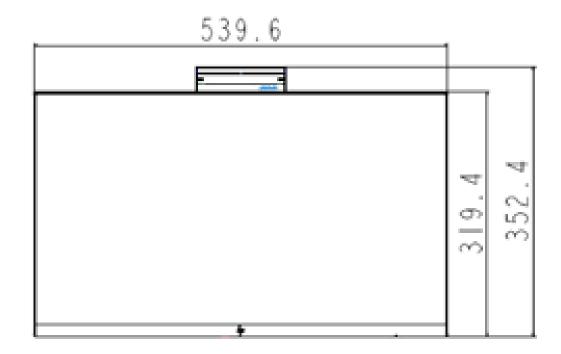
HP EliteStudio8 G1i 27" AlO Adjustable Height Stand



Technical Specifications – Stands and Dimensions

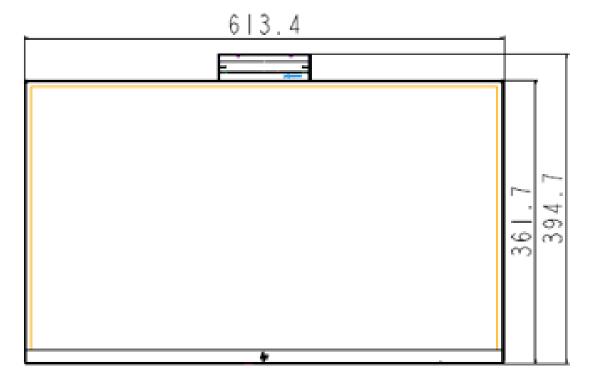
HP EliteStudio8 G1i 23.8" AIO with VESA Plate





HP EliteStudio8 G1i 27" AIO with VESA Plate





Technical Specifications – Stands and Dimensions

Adjustable Height Stand:	Height - Vertical/Landscape Adjustment	130mm (±3 mm)
	Pivot Function	Landscape/Portrait pivot direction Counter clockwise
	Tilt Angle	[-5°] to [+20°] in landscape and portrait
	Rotation (Swivel)	90° [Clockwise 45°, Counter clockwise 45°]
Articulating stand:	Rotation Lift angle range Landscape	75° [-20°] to [+55°]
	Pivot Function	No/Landscape only
	Tilt Angle (Display)	Backward: 60° Forward: 0°
	Rotation (swivel)	No swivel



Technical Specifications – All-in-One Weights and Dimensions

ALL-IN-ONE WEIGHTS AND DIMENSIONS

HP EliteStudio 8 All-in-One G1i 23.8-inch Desktop AI PC

		Withou (VESA Cov		Articulating Stand		Adjustable I	Height Stand
		cm/kg	inch/lb	cm/kg	inch/lb	cm/kg	inch/lb
	Width	539.6	21.2	539.6	21.2	539.6	21.2
Product	Length/Depth	85.7	3.4	210.7	8.3	280	11.0
(Landscape orientation)	Height (include Webcam pop up)	352.4	13.9	516.9	20.4	470.6	18.5
				7			
	Width	352.4	13.9	352.4	13.9	N/A	N/A
	Length/Depth	85.7	3.4	210.7	8.3	N/A	N/A
Product (Portrait orientation)	Height (include Webcam pop up)	539.6	21.2	594	23.4	N/A	N/A
	Weight	7.13	15.7	8.54	18.8	10.45	23.0
	Width	198	7.8	198	7.8	198	7.8
Doolsooo	Length/Depth	750	29.5	750	29.5	750	29.5
Package	Height	480	18.9	480	18.9	480	18.9
	Weight	11.88	26.2	13.29	29.3	15.20	33.5
	Width	1000	39.4	1000	39.4	1000	39.4
	Length/Depth	1200	47.2	1200	47.2	1200	47.2
Palletization	Height	2060	81.1	2060	81.1	2060	81.1
for Sea/Rail	Weight	347.14	765.3	386.62	852.4	440.1	970.3
	Qty / Layer	7	7		7		7
	Layers	4	1	4		4	
Qty / Pallet via	Sea/Rail	2	8	2	28	2	.8
Qty / Pallet via	Air	2	1	2	21	21	

NOTE: Packaging material used will vary by country.

Package weight is based on EPE package.

Actual system weight will depend on the system configuration.



Technical Specifications – All-in-One Weights and Dimensions

HP EliteStudio 8 All-in-One G1i 27-inch Desktop AI PC

			t Stand ver Plate)	Articulating Stand		Adjustable I	ustable Height Stand	
		cm/kg	inch/lb	cm/kg	inch/lb	cm/kg	inch/lb	
	Width	613.4	24.1	613.4	24.1	613.4	24.1	
Product	Length/Depth	85.7	3.4	216.7	8.5	280	11.0	
(Landscape orientation)	Height (include Webcam pop up)	394.7	15.5	559.2	22.0	491.8	19.4	
			_					
	Width	394.7	15.5	394.7	15.5	N/A	N/A	
	Length/Depth	85.7	3.4	216.7	8.5	N/A	N/A	
Product (Portrait orientation)	Height (include Webcam pop up)	613.4	24.1	652.1	25.7	N/A	N/A	
	Weight	8.5	18.7	10.07	22.2	11.83	26.1	
	Width	228	9.0	228	9.0	228	9.0	
Daakaaa	Length/Depth	740	29.1	740	29.1	740	29.1	
Package	Height	480	18.9	480	18.9	480	18.9	
	Weight	13.72	30.2	15.32	33.8	17.12	37.7	
	Width	1000	39.4	1000	39.4	1000	39.4	
	Length/Depth	1200	47.2	1200	47.2	1200	47.2	
Palletization	Height	2060	81.1	2060	81.1	2060	81.1	
for Sea/Rail	Weight	343.78	757.9	382.18	842.6	425.38	937.8	
	Qty / Layer		5		5	_	6	
	Layers	4	1	4		4		
Qty / Pallet via	Sea/Rail	2	8	2	:4	2	.4	
Qty / Pallet via	Air	2	1	1	8	18		

NOTE: Packaging material used will vary by country.

Package weight is based on EPE package.

Actual system weight will depend on the system configuration.



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 ILM 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 bottom LED To indicate Normal Operations and Fault Conditions
- 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)
- Blue 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 Tower, SFF, and Mini only. SFF/Mini 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	Mini	SFF	TWR	AiO	Part Number
NVIDIA RTX A400 4GB Graphics		X	X		AV8J3AA
NVIDIA RTX A1000 8 GB Graphics		Х			AV8J4AA
AMD Radeon RX 6300 2GB GDDR6 DP+HDMI FH			X		7Y6P7AA
AMD Radeon RX 6300 2GB GDDR6 DP+HDMI LP		X			803S9AA
Intel Arc A380 6GB GDDR6 FH PCIe x16 3DP+HDMI			Х		9Q6G0AA
HP DisplayPort to HDMI True 4k Adapter	X	X	Х	Х	2JA63AA
HP DisplayPort Cable Kit		Х	Х	Х	VN567AA
HP HDMI Standard Cable Kit	Х	Х	Х	Х	T6F94AA
HP HDMI to VGA Adapter	X	X	Х	Х	H4F02AA
HP DisplayPort to VGA Adapter	Х	Х	Х	Х	F7W97AA
HP DisplayPort to DVI-D Adapter	Х	Х	X	Х	F7W96AA
HP USB-C to DisplayPort Adapter G2	Х	Х	Х	Х	8Y8Y1AA
HP USB-C to HDMI 2.0 Adapter	Х	Х	Х	Х	1WC36AA
HP USB-C to USB 3.0 Adapter	Х	Х	Х	Х	N2Z63AA
HP Single Mini Display Port Adapter to Display Port Adapter	Х	Х	X	Х	2MY05AA

Desktop Mini Accessories	<u>Mini</u>	<u>SFF</u>	TWR	<u>AiO</u>	Part Number
HP Desktop Mini 90W Power Supply Kit	х				L4R65AA
HP Desktop Mini v4+ VESA Sleeve	X (95W and discrete GPU skus not supported)				99T54AA
HP Desktop Mini v4+ VESA Sleeve with Power Supply Holder	X (Discrete GPU skus not supported)				99T55AA
HP 150W Elite Mini EPS Holder*	х				657R3AA
HP B200 PC Mounting Bracket	Х				762T5AA
HP B250 PC Mounting Bracket	х				8RA46AA
HP B300 PC Mounting Bracket	Х				2DW53AA
HP B300 PC Mounting Bracket with Power Supply Holder	X (Discrete GPU skus and 150W/180W adapter not supported)				7DB37AA
HP B550 PC Mounting Bracket	Х				16U00AA



Technical Specifications – After Market Options

HP B560 PC Mounting Bracket	X			763U8AA
HP Desktop Mini Vertical Chassis Stand	Х			763U8AA
HP Quick Release Bracket 2	Х		Х	6KD15AA
HP Desktop Mini 65w Power Supply Kit*	X			L2X04AA

NOTE*: Compatible with HP B300 PC Mounting Bracket (2DW53AA) and HP Desktop Mini v4+ VESA Sleeve (99T54AA)

AIO Accessories	Mini	SFF	TWR	AiO	Part Number
HP EliteStudio 8 G1i 27 Adjustable Height Stand*				X	B6BT7AA
HP EliteStudio 8 G1i 23.8 Adjustable Height Stand**				X	B6BT6AA
HP EliteStudio 8 G1i Articulating Stand				X	B6BT9AA
HP All-in-One G1i VESA Plate				X	B6BT8AA

*NOTE: Support 870 AIO only **NOTE: Support 840 AIO only

Data Storage Drives	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	<u>Part Number</u>
HP PCIe Gen 4 NVME TLC M.2 512GB SSD	X	X	X	X	406L8AA
HP PCIe Gen 4 NVME TLC M.2 1TB SSD	X	X	X	X	406L7AA
HP 1TB 7200rpm SATA 3.5" Hard Drive		X	X		QK555AA

Input Devices	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	<u>Part Number</u>
HP 125 G2 Wired Keyboard	Х	X	Х	X	AY2Y7AA
HP 125 Wired Mouse	X	X	Х	X	265A9AA
HP 128 Laser Wired Mouse	Х	X	Х	X	265D9AA
HP 320K G2 Wired USB Keyboard	X	X	Х	X	9SR37UT
HP Wired Desktop 320M Mouse	Х	X	Х	X	9VA80AA
HP Wired Desktop 320MK Mouse and Keyboard G2	X	X	X	X	9SR36UT
HP Business Slim v2 Smart Card USB Keyboard	Х	X	Х		A71J9AA
HP 655 Wireless Keyboard and Mouse Combo G2	Х	X	Х	X	4R009UT
HP 455 G2 Programmable WRLS USB Keyboard	X	Х	X	X	B08ZDAA
HP 405 Multi-Device Wired Backlit Keyboard	X	X	X	X	7N7C1AA
HP 680 Comfort Dual-Mode Keyboard	X	X	X	X	8T6L8AA
HP 725 Multi-Device Rechargeable Wireless Keyboard	X	Х	Х	X	9T5B2AA
HP 725 Multi-Device Rechargeable Wireless Keyboard and	X	Х	Х		
Mouse Combo				Х	9T5B0UT
HP 515 Ultra-Fast Rechargeable Wireless Mouse	X	Х	Х	X	9C2F7AA

Technical Specifications – After Market Options

System Memory	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	<u>Part Number</u>
HP 8GB DDR5-5600 UDIMM		Х	X		A9TF0AAv
HP 16GB DDR5-5600 UDIMM		Х	X		A9TF1AA
HP 32GB DDR5-5600 UDIMM		Х	X		A9TF3AA
HP 8GB DDR5-5600 SODIMM	Х			Х	79U70AA
HP 16GB DDR5-5600 SODIMM	Х			Х	79U71AA
HP 32GB DDR5-5600 SODIMM	Х			Х	79U72AA

Multimedia Devices	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	<u>Part Number</u>
HP S101 Speaker Bar	Х	X	X		5UU40AA
HP Z G3 Conferencing Speaker Bar wStand	Х	Х	Х		647Y2AA

Security Devices	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	<u>Part Number</u>
HP Business PC Security Lock v3 Kit		X	X		3XJ17AA
HP Keyed Cable Lock 10mm	X	X	X	X	T1A62AA
HP Master Keyed Cable Lock 10mm	X	X	X	X	T1A63AA
HP Combination Standard Cable Lock		X	X		TOY15AA
HP Essential Combination Lock	_	X	X		TOY16AA

I/O Devices	<u>Mini</u>	<u>SFF</u>	TWR	<u>AiO</u>	Part Number
HP DisplayPort 2.1 Flex IO v3	Х	Х	Х		B6BS8AA
HP VGA Flex IO v3	Х	X	X		B6BT0AA
HP HDMI 2.1 Flex IO v3	Х	X	X		B6BS9AA
HP Thunderbolt 4™ Flex IO v3	Х	X	X		B6BT1AA
HP USB-C 3.1 Gen2 Flex IO v3		X	X		B6BT3AA
HP Dual Type-C 3.2 Gen2 Flex IO v3	Х	X	X		B6BT5AA
HP USB 3.1 Gen1 x2 Module Flex IO v2	X (Not Available on discrete GPU SKUs)	х	х		13L58AA
HP Internal Serial Port (in rear wall)		X	X		3TK82AA
HP PCIe x1 Parallel Port Card		X	X		N1M40AA
HP USB to Serial Port Adapter	Х	X	X	X	J7B60AA
HP USB-C to DisplayPort Adapter G2	Х			X	8Y8Y1AA
HP Single Mini Display Port Adapter to Display Port Adapter		X	X		2MY05AA
HP Serial Port Flex IO v2	Х	X	X		5B895AA
HP Z2 2.5GbE LAN Flex Port					B96W7AA
HP Flex 1GbE Fiber LC Single Port	X	X	X		20J15AA
HP USB External DVD RW Drive	X	Х	X	Х	F2B56AA



Technical Specifications – After Market Options

NOTE: For more detail on HP I/O Devices please refer to the HP FLEX IO v3 Option Cards QuickSpecs: https://www8.hp.com/h20195/v2/GetDocument.aspx?docname=c06712909

Communication Devices	<u>Mini</u>	<u>SFF</u>	<u>TWR</u>	<u>AiO</u>	Part Number
Intel® EthernetI226-T1 2.5GbE NIC		Х	X		9P1U8AA



Change Log

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Date	Version History	Action	Description of Change
May 21, 2025	From v1 to v2	Update	AiO weight and dimensions, Stands and dimensions and displaypanel specifications sections corrected
June 6, 2025	From v2 to v3	Update	Flex Io QS link updated in AMO / Weights and dimensions and Display panel specifications updated
	From v3 to v4		
	From v4 to v5		
	From v5 to v6		
	From v6 to v7		
	From v7 to v8		
	From v8 to v9		
	From v9 to v10		
	From v10 to v11		
	From v11 to v12		
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	From v28 to v29		
	From v29 to v30		
	From v30 to v31		

