

Datasheet

HP EliteDesk 800 G4 Tower PC



Raise the bar for performance, security, and manageability.

Powered for the enterprise, the high-performance HP EliteDesk 800 TWR is one of our most secure and manageable PCs featuring superb expandability required by today's high-productivity workforce in a stylish chassis designed for the modern workplace.



HP recommends Windows 10 Pro.

- Windows 10 Pro¹
- HP Sure Start Gen4²

Ready for virtual reality

- High-performance users will enjoy massive expansion, 8th Gen Intel® Core™ processors⁴, and Intel® Optane™ memory⁵. Amplify performance with optional 95W processors⁵, Thunderbolt™ ⁶, and high-end discrete graphics for viewing VR content⁶.

Expansion that extends your investment

- The HP EliteDesk 800 TWR has enormous expandability with five bays and four full-height slots including one slot for full-length double-wide graphics. Plus, three additional M.2 slots, and plenty of configurable ports.

Strong security, powerful manageability

- Get powerful protection and simplified management from secure and manageable PCs. HP Sure Start Gen4² protects against BIOS attacks while the HP Manageability Integration Kit Gen2⁷ allows you to easily manage devices.

Configurable ports for displays or Thunderbolt™ ⁶

- Configure a third configurable rear I/O port for customizable display connections with your choice of VGA, DisplayPort™, HDMI or USB-Type C™ with DisplayPort™. Or, choose Thunderbolt™ ⁶ for high-speed file transfer.

Featuring

- Power through your day with Windows 10 Pro with built-in security, collaboration, and connectivity.¹
- Protect the firmware that antivirus can't reach! The hardware-enforced self-healing protection offered by HP Sure Start Gen4 automatically recovers the BIOS from malware, rootkits, or corruption.²
- Keep your critical applications and processes running even if malware tries to shut them down with self-healing protection.⁸
- Help protect your PC from websites and in-browser .pdf files infected with malware, ransomware, or viruses with HP Sure Click.⁹
- Quickly and securely restore PCs to the latest image using a network connection with HP Sure Recover.¹⁰
- ITDMs can quickly help create, improve, and secure custom Windows images with HP Image Assistant Gen3.
- The HP Manageability Integration Kit helps speed up image creation and management of hardware, BIOS, and security through Microsoft System Center Configuration Manager.
- Fortify your security with up to three authentication factors.

HP EliteDesk 800 G4 Tower PC Specifications Table



Form Factor	Tower
Available Operating System	Windows 10 Pro 64 – HP recommends Windows 10 Pro. ¹ Windows 10 Home 64 ¹ Windows 10 Home Single Language 64 ¹ FreeDOS 2.0
Available Processors³	Intel® Core™ i7-8700 with Intel® UHD Graphics 630 (3.2 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores); Intel® Core™ i3-8100 with Intel® UHD Graphics 630 (3.6 GHz, 6 MB cache, 4 cores); Intel® Celeron® G4900 with Intel® UHD Graphics 610 (3.1 GHz, 2 MB cache, 2 cores); Intel® Core™ i7-8700K with Intel® UHD Graphics 630 (3.7 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores); Intel® Core™ i5-8600K with Intel® UHD Graphics 630 (3.6 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores); Intel® Core™ i5-8500 with Intel® UHD Graphics 630 (3 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores); Intel® Pentium® Gold G5400 with Intel® UHD Graphics 610 (3.7 GHz, 4 MB cache, 2 cores); Intel® Core™ i7+ 8700 (3.2 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores); Intel® Core™ i5-8600 with Intel® UHD Graphics 630 (3.1 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores); Intel® Core™ i5+ 8600 (3.1 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores); Intel® Core™ i5+ 8500 (3 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores); Intel® Core™ i3-8300 with Intel® UHD Graphics 630 (3.7 GHz, 8 MB cache, 4 cores); Intel® Pentium® Gold G5600 with Intel® UHD Graphics 630 (3.9 GHz, 4 MB cache, 2 cores); Intel® Core™ i5+ 8600K (3.6 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores); Intel® Core™ i7+ 8700K (3.7 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores); Intel® Pentium® Gold G5500 with Intel® UHD Graphics 630 (3.8 GHz, 4 MB cache, 2 cores)
Chipset	Intel® Q370
Maximum Memory	Up to 64 GB DDR4-2666 SDRAM ^{4,13} Standard memory note: Transfer rates up to 2666 MT/s.
Memory slots	4 DIMM
Internal Storage	500 GB up to 2 TB 7200 rpm SATA HDD ⁵ up to 2 TB 5400 rpm SATA HDD ⁵ up to 500 GB SATA SED Opal 2 HDD ⁵ ⁵ 256 GB up to 512 GB SATA SED Opal 2 TLC SSD ⁵ ⁵ 128 GB up to 512 GB PCIe® NVMe™ M.2 SSD ⁵ 128 GB up to 1 TB PCIe® NVMe™ TLC M.2 SSD ⁵ 256 GB up to 512 GB PCIe® NVMe™ SED Opal 2 TLC M.2 SSD ⁵
Additional Storage	5-in-1 SD card reader
Optical Storage	HP 9.5 mm Slim DVD-Writer; HP 9.5 mm Slim DVD-ROM
Available Graphics	Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics 610 Discrete: NVIDIA® GeForce® GTX 1060 (3 GB GDDR5 dedicated); AMD Radeon™ R7 430 Graphics (2 GB GDDR5 dedicated); AMD Radeon™ RX 550 Graphics (4 GB GDDR5 dedicated); AMD Radeon™ RX 580 Graphics (4 GB GDDR5 dedicated)
Audio	Conexant CX20632 codec, universal audio jack, headset and headphone front ports (3.5 mm), multi-streaming capable
Communications	LAN: Integrated Intel® I219LM GbE LOM; Intel® I210-T1 PCIe® GbE ¹⁶ WLAN: Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) and Bluetooth® 5 M.2, non-vPro™; Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) and Bluetooth® 5 M.2, vPro™ ⁷
Expansion Slots	1 M.2 2230; 1 PCIe 3 x16; 2 PCIe 3 x1; 2 PCIe 3 x16 (wired as x4); 2 M.2 2230/2280 (1 M.2 slot for WLAN and 2 M.2 2230/2280 slot for storage.)
Ports and Connectors	Rear: 1 audio-in; 1 audio-out; 1 power connector; 1 RJ-45; 1 serial; 2 DisplayPort™ 1.2; 2 USB 2.0; 2 USB 3.1 Gen 1; 2 USB 3.1 Gen 2 ^{18,19} Front: 1 audio-in; 1 audio-out; 1 power connector; 1 RJ-45; 1 serial; 2 USB 2.0; 2 DisplayPort™ 1.2; 2 USB 3.1 Gen 1; 2 USB 3.1 Gen 2; 1 configurable video port Optional: 1 serial; 1 serial and PS/2 ports combination
Internal Drive Bays	One 2.5" HDD; One 5.25" HDD; Two 3.5" HDD ²⁰
Input Device	HP PS/2 Business Slim Keyboard; HP USB Conferencing Keyboard; HP USB Business Slim Keyboard; HP USB Business Slim Smart Card (CCID) Keyboard ¹⁴ HP PS/2 Mouse; HP USB 1000 dpi Laser Mouse; HP USB Optical Mouse ⁸
Available Software	Absolute Persistence module; HP ePrint Driver + JetAdvantage; HP Hotkey Support; HP Jumpstart; HP Noise Cancellation Software; HP PhoneWise; HP Support Assistant; HP Velocity; Native Miracast Support; HP Wireless Wakeup; Buy Office (sold separately); HP WorkWise; HP Sure Recover ^{9,22,23,24,25,26}
Security Management	DriveLock; HP BIOSphere; HP Password Manager; HP Power On Authentication; Intel® Identity Protection Technology (Intel® IPT); Power-on password (via BIOS); RAID configurations; Removable media write/boot control; SATA port disablement (via BIOS); Setup password (via BIOS); Support for chassis padlocks and cable lock devices; USB enable/disable (via BIOS); Solenoid lock and hood sensor; HP Client Security Suite Gen 4; HP Sure Start Gen 4; HP Sure Run; Parallel enable/disable (via BIOS); Serial enable/disable (via BIOS); Trusted Platform Module TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)(FIPS 140-2 Level 2 Certified) ^{11,29,30,31,32,33,34,35,36}
Management Features	HP BIOS Config Utility (download); HP Client Catalog (download); HP Driver Packs (download); HP System Software Manager (download); Ivanti Management Suite; HP Management Integration Kit for Microsoft System Center Configuration Management Gen 2 ^{10,27,28}
Power	250 W internal power supply, up to 92% efficiency, active PFC
Dimensions	10 x 33.8 x 30.8 cm
Weight	9.86 kg (Exact weight depends on configuration.)
Environmental	Low halogen ¹⁵
Energy Efficiency Compliance	ENERGY STAR® certified; EPEAT® Gold ¹²

HP EliteDesk 800 G4 Tower PC

Accessories and services (not included)

HP Wireless Slim Business Keyboard

Enjoy easy data entry and wireless connectivity with the HP Wireless Business Slim Keyboard, designed to complement the 2015 class of HP Business PCs.

Product number: N3R88AA



HP 5 year Next Business Day Onsite Hardware Support for Desktops

Receive 5 years of next business day onsite HW Support from an HP-qualified technician for your computing device, if the issue cannot be solved remotely.

Product number: U7899E



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Messaging Footnotes

- ¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.
- ² HP Sure Start Gen4 is available on HP Elite and HP Pro 600 products equipped with 8th generation Intel® or AMD processors.
- ³ Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- ⁴ Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system and requires configuration with an optional Intel® Core™ (i5 or 7)+ processor.
- ⁵ Sold separately or as an optional feature.
- ⁶ HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.
- ⁷ HP Sure Run is available on HP Elite products equipped with 8th generation Intel® or AMD processors.
- ⁸ HP Sure Click is available on select HP platforms and supports Microsoft® Internet Explorer, Google Chrome, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode. Check <http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-0922ENW> for all compatible platforms as they become available.
- ⁹ HP Sure Recover is available on HP Elite PCs with 8th generation Intel® or AMD processors and requires an open, wired network connection. Not available on platforms with multiple internal storage drives or Intel® Optane™. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.

Technical specifications disclaimers

- ¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com/>.
- ² Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- ³ For systems configured with more than 3 GB of memory and a 32-bit operating system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system. Memory modules support data transfer rates up to 2133 MT/s; actual data rate is determined by the system's configured processor. See processor specifications for supported memory data rate. All memory slots are customer accessible / upgradeable.
- ⁴ For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) and 36 GB (for Windows 8.1/10) of system disk is reserved for the system recovery software.
- ⁵ (1) Configurable video port: Choice of DisplayPort™ 1.2, HDMI™ 2.0, or VGA, Type-C Card with Display Output, Type-C Card with Display Output and Power Delivery.
- ⁶ Wireless access point and internet service required. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.
- ⁷ Antimicrobial USB Mouse and HP USB Hardened Mouse, HP PS/2 Mouse, HP USB and PS/2 Washable Mouse: are not available in all regions.
- ⁸ Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- ⁹ HP Driver Packs: Not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>; HP Manageability Integration Kit: Can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>; Ivanti Management Suite: Subscription required.
- ¹⁰ HP BIOSphere Gen4: Requires Intel® or AMD 8th Gen processors. Features may vary depending on the platform and configurations; HP Client Security Suite Gen 4: Requires Windows and Intel® or AMD 8th generation processors; HP Password Manager: Requires Internet Explorer or Chrome or Firefox. Some websites and applications may not be supported. User may need to enable or allow the add-on / extension in the internet browser; Microsoft Defender: Opt in and internet connection required for updates; HP Sure Start Gen4: Is available on HP EliteBook products equipped with Intel® 8th generation processors; Firmware TPM: Is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT); RAID configuration: Is optional and does require a second hard drive; HP Sure Run: Is available on HP Elite products equipped with 8th generation Intel® or AMD processors; Intel® Identity Protection Technology (Intel® IPT): Models configured with Intel® Core™ processors have the ability to utilize advanced security protection for online transactions. Intel® Identity Protection Technology (Intel® IPT), used in conjunction with participating web sites, provides double identity authentication by adding a hardware component in addition to the usual user name and password. Intel® Identity Protection Technology (Intel® IPT) is initialized through an HP Client Security module.
- ¹¹ EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. See HP's 3rd party option store for solar energy accessory www.hp.com/go/options.
- ¹² All memory slots are customer accessible / upgradeable.
- ¹³ HP USB and PS/2 Washable Keyboard, HP PS/2 Business Slim Keyboard, HP PS/2 Keyboard: PS/2 port not available on EliteOne 800 G4 AiOs.
- ¹⁴ External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
- ¹⁵ Intel® I210-T1 PCIe® GbE: Sold separately or as an optional feature.
- ¹⁶ (2) USB 3.1 Gen 1 (5 Gbit/s): allows for wake from S4/S5 with keyboard/mouse when connected and enabled in BIOS.
- ¹⁷ The TWR can support a single graphics card up to 75W. When configured with dual graphics cards support is limited to 35W for each.
- ¹⁸ 4 SATA.

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