

HP EliteDesk 800 G4 Workstation Edition



HP's most affordable professional certified desktop

Workstation-class performance is within reach with a desktop certified for professional software. From 2D/3D CAD design to VR content creation, the HP EliteDesk 800 Workstation Edition is the perfect gateway to elite-level power.



HP recommends Windows 10 Pro.

Step up to workstation performance

- Take performance up a notch with plenty of configurations and expandability. With NVIDIA GeForce® & Quadro® options, you can pick the perfect GPU for the job. ¹ Plus, multiple expansion slots provide plenty of room to accommodate your evolving needs.

Software certified

- Work with confidence knowing your desktop is certified for your most critical applications. We've worked closely with leading software providers like Autodesk and SolidWorks to help ensure seamless and reliable performance at every stage of your workflow.

HP's most secure and manageable workstations

- Get powerful protection from evolving malware threats with self-healing, hardware-enforced security solutions like HP Sure Start Gen4 ² which protects against BIOS attacks. Plus, easily manage multiple devices with the HP Manageability Integration Kit Gen2 ³.

Featuring

- Be productive in any situation. Windows 10 Pro and powerful security, collaboration, and connectivity features from HP help you power through your day. ⁴
- Create complex 2D designs and 3D models with optional certified NVIDIA Quadro® P400 and P620 graphics powered by 2 GB of ultra-fast GPU memory. ⁵
- Amp up your VR experience with fast, smooth performance.
- 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™.
- 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. ⁶
- Keep your critical applications and processes running even if malware tries to shut them down with self-healing protection with HP Sure Run. ⁷
- HP Sure Recover ⁸ enables you to quickly and securely restore your PC to the latest image using only a network connection.
- The HP Manageability Integration Kit Gen2 helps speed up image creation and management of hardware, BIOS, and security through Microsoft System Center Configuration Manager.

HP EliteDesk 800 G4 Workstation Edition Specifications Table



Form Factor	Tower
Operating System	Windows 10 Pro for Workstations 64 - HP recommends Windows 10 Pro ¹ Windows 10 Pro 64 (National Academic only) ^{1,2} Windows 10 Home 64 ¹ Windows 10 Home Single Language 64 ¹ FreeDOS 2.0
Processor Family	8th Generation Intel® Core™ i3 processor; 8th Generation Intel® Core™ i5 processor; 8th Generation Intel® Core™ i7 processor; 8th Generation Intel® Core™ i5+ processor; 8th Generation Intel® Core™ i7+ processor; Intel® Pentium® processor (G5400, G5500, G5600 are Windows 10 only) ^{17,21}
Processors ^{3,10,17,21,38}	Intel® Core™ i7+ 8700 (Core™ i7 and 16 GB Intel® Optane™ memory) with Intel® HD Graphics 630 (3.2 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores); Intel® Core™ i7+ 8700K (Core™ i7 and 16 GB Intel® Optane™ memory) with Intel® HD Graphics 630 (3.7 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores); Intel® Pentium® Gold G5400 with Intel® HD Graphics 610 (3.7 GHz base frequency, 4 MB cache, 2 cores); Intel® Core™ i5+ 8600K (Core™ i5 and 16 GB Intel® Optane™ memory) with Intel® HD 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 (Core™ i5 and 16 GB Intel® Optane™ memory) with Intel® HD 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+ 8500 (Core™ i5 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (3.0 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® Pentium® Gold G5500 with Intel® UHD Graphics 630 (3.8 GHz, 4 MB cache, 2 cores); Intel® Core™ i3 8100 with Intel® UHD Graphics 630 (3.6 GHz, 6 MB cache, 4 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® 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 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™ 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™ 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)
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 ⁵ up to 2 TB 5400 rpm SATA ⁵ up to 500 GB SATA SED Opal 2 HDD ⁵ up to 500 GB 7200 rpm SATA FIPS SED ⁵ 500 GB up to 2 TB 5400 rpm SATA SSHD ⁵ 256 GB up to 512 GB SATA SED Opal 2 TLC SSD ⁵ 256 GB up to 512 GB SATA FIPS SSD ⁵
Optical Storage	HP 9.5 mm Slim DVD-Writer
Additional Storage	5-in-1 SD card reader
Drive Bays (Internal)	One 2.5" HDD; Two 3.5" HDD ²⁰
Drive Bays (External)	1 slim optical drive bay; One 5.25" ODD ²⁰
Available Graphics	Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics 610 Discrete: NVIDIA® Quadro® P400 (2 GB GDDR5 dedicated); NVIDIA® GeForce® GTX 1060 (3 GB GDDR5 dedicated); NVIDIA® GeForce® GTX 1080 (8 GB GDDR5 dedicated); AMD Radeon™ R7 430 Graphics (2 GB GDDR5 dedicated); AMD Radeon™ RX 580 Graphics (4 GB GDDR5 dedicated)
Expansion Slots	1 M.2 2230; 1 PCIe 3 x16; 2 PCIe 3 x1; 1 PCIe 3 x16 (wired as x4); 2 M.2 2230/2280 1 M.2 slot for WLAN and 1 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 headphone; 1 headset connector; 1 USB 2.0; 2 USB 3.1 Gen 2; 1 USB 2.0 (fast charging); 1 USB 3.1 Type-C™ (charging) 1 DisplayPort™ 1.2; 1 HDMI 2.0; 1 serial; 1 VGA; 1 USB 3.1 Type-C™ Gen 1 (DisplayPort™) ³⁷
Communications	LAN: Intel® I210-T1 PCIe® GbE; Integrated Intel® I219LM GbE LOM ¹⁶ WLAN: Realtek RTL8822BE-CG 802.11 a/b/g/n/ac (2x2) with Bluetooth® 4.1 M.2 PCIe®; Intel® Dual Band Wireless-AC 9560 802.11 ac (2x2) and Bluetooth® 5 M.2, non-vPro™; Intel® Dual Band Wireless-AC 9560 802.11 ac (2x2) and Bluetooth® 5 M.2, vPro™; Realtek RTL8821 CE-CG 802.11 a/b/g/n/ac (1x1) with Bluetooth® 4.2 M.2 PCIe® ^{7,39}
Power	250 W internal power supply, up to 92% efficiency, active PFC; 500 W internal power adapter, up to 92% efficiency, active PFC
Input Device	HP PS/2 Business Slim Keyboard; HP USB Business Slim Keyboard; HP USB Keyboard; HP Wireless Business Slim Keyboard and Mouse Combo; HP PS/2 Keyboard; HP Conferencing Keyboard; HP USB and PS/2 Washable Keyboard; HP USB Smart Card (CCID) Keyboard; HP Wireless Collaboration Keyboard ¹⁴ HP PS/2 Mouse; HP USB 1000 dpi Laser Mouse; HP USB Hardened Mouse; HP USB Optical Mouse; HP USB Premium Mouse; HP USB and PS/2 Washable Mouse; HP USB Antimicrobial Mouse ⁸
Security	Removable media write/boot control; DriveLock; HP BIOSphere; HP Password Manager; HP Power On Authentication; Intel® Identity Protection Technology (Intel® IPT); Power-on password (via BIOS); RAID configurations; 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}
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}
Dimensions	10 x 33.8 x 30.8 cm
Weight	9.86 kg Exact weight depends on configuration.
Energy Efficiency Compliance	ENERGY STAR® certified; EPEAT® Gold ¹²
Environmental Certification	Low halogen ¹⁵
Warranty	3 year (3--3) limited warranty and service offering includes 3 years of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

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Accessories and services (not included)

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: U7944E



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Messaging Footnotes:

- ¹ Sold separately or as an add-on feature. NVIDIA Quadro® P620 planned to be available in August, 2018
- ² HP Sure Start Gen4 is available on HP Elite and HP Workstation products equipped with 8th generation Intel® or AMD processors.
- ³ HP Manageability Integration Kit Gen2 can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.
- ⁴ 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/>.
- ⁵ Optional or configurable feature. NVIDIA Quadro® P620 planned to be available in August, 2018
- ⁶ HP Sure Start Gen4 is available on HP Elite and HP Workstation products equipped with 8th generation Intel® or AMD processors.
- ⁷ HP Sure Run is available on HP Elite and HP Workstation products equipped with 8th generation Intel® or AMD processors.
- ⁸ HP Sure Recover is available on HP Workstations with 8th generation Intel® or AMD processors and requires an open, wired network connection. Not available on platforms with multiple internal storage drives, Intel® Optane™. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.
- ⁹ HP Manageability Integration Kit Gen2 can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.

Technical Specifications 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 Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see <https://aka.ms/ProEducation> for Windows 10 Pro Education feature information.
- 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 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.
- ⁵ 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.
- ⁶ (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.
- ⁷ 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.
- ⁸ 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.
- ⁹ Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- ¹⁰ Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost> for more information.
- ¹¹ HP BIOSphere Gen4: Requires Intel® or AMD 8th Gen processors. Features may vary depending on the platform and configurations.
- ¹² 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.
- ¹³ All memory slots are customer accessible / upgradeable.
- ¹⁴ 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.
- ¹⁵ External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen
- ¹⁶ Intel® I210-T1 PCIe® GbE: Sold separately or as an optional feature.
- ¹⁷ Your product does not support Windows 8 or Windows 7. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel® and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>
- ¹⁸ (2) USB 3.1 Gen 1 (5 Gbit/s): allows for wake from S4/S5 with keyboard/mouse when connected and enabled in BIOS.
- ¹⁹ The TWR can support a single graphics card up to 75W. When configured with dual graphics cards support is limited to 35W for each.
- ²⁰ 4 SATA.
- ²² Absolute Persistence Module: Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: <http://www.absolute.com/company/legal/agreements/computrace-agreement>. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- ²³ HP ePrint Driver: Requires an Internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see www.hp.com/go/eprintcenter). Print times and connection speeds may vary.
- ²⁴ HP Support Assistant: Requires Windows and Internet access.
- ²⁵ HP WorkWise: Smartphone app is available as a free download on Google Play.
- ²⁹ HP Client Security Suite Gen 4: Requires Windows and Intel® or AMD 8th generation processors.
- ³⁰ 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.
- ³¹ Microsoft Defender: Opt in and internet connection required for updates.
- ³³ 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).
- ³⁴ RAID configuration: Is optional and does require a second hard drive.
- ³⁶ 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.
- ³⁷ Optional

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