Datasheet

HP EliteDesk 800 G6 Tower PC

Take on your most demanding projects

The redesigned HP EliteDesk 800 Tower is the new definition of performance and expandability in a business-class tower PC. Featuring powerful components, enormous expansion, and strong security, this PC handles your biggest enterprise workloads.



HP recommends Windows 10 Pro for business

- 10th Gen Intel® Core™ processor[2]

Lead with power and performance

- Get highly responsive performance for you most demanding workloads and VR projects with up to a 125W 10th Gen Intel® Core™ processor[2], fast DDR4 memory, and optional high-end NVIDIA® GeForce® RTX 2080 SUPER™ graphics.[3]

Customize to fit your needs

- 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.[3] Plus, there are three additional M.2 slots and 11 USB ports.

Work with peace of mind

- Security features from HP work together to create an always-on, always-acting, resilient defense. From the BIOS to the browser, above and below the OS, these constantly evolving solutions help protect your PC from threats.

Built for the changing workplace

- The new chassis of the redesigned HP Elite 800 TWR is 9.6-percent smaller than the previous model. Its whisper quiet operation and powerful options like HP Extended Range Wireless LAN[4] make it the right choice for today's smaller workspaces.
- Customize your display connection with a configurable rear I/O port featuring your choice of VGA, DisplayPort™, HDMI or USB-Type C® with DisplayPort™. Or, choose Thunderbolt™ 3 for high-speed file transfer.[3]
- Cover more ground and improve connectivity while on Wi-Fi® with HP Extended Range Wireless LAN that allows greater distance from transmission point and fast data throughput at shorter ranges.[4]
- HP Sure Admin, a modern BIOS management tool, eliminates the need for a password or BIOS configuration utility in the OS by creating a digital signature that allows IT administrators to securely manage BIOS settings over a network.[5]
- Firmware attacks can completely devastate your PC. Stay protected with HP Sure Start Gen5, the self-healing BIOS that automatically recovers itself from attacks or corruption.[6]
- Stop unwanted changes to security settings and help limit the spread of malware with HP Sure Run Gen3 which identifies, quarantines, and provides reporting on attackers trying to kill processes.[7]
- Help protect your PC from websites and read only Microsoft Office and PDF attachments with malware, ransomware, or viruses with hardware-enforced security from HP Sure Click.[8]
- HP Sure Recover Gen3 ensures fast, secure, and automated recovery from advanced malware attacks on your OS. Minimize downtime by recovering the OS over a LAN or Wi-Fi® network connection that you can pause or retry if the connection is lost.[9]
- Malware is evolving rapidly and traditional antivirus can't always recognize new attacks. Protect your PC against never-before-seen attacks with HP Sure Sense, which uses deep learning AI to provide exceptional protection against advanced malware.[10]

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HP EliteDesk 800 G6 Tower PC Specifications Table





Available Operating Systems	Windows 10 Pro 64 – HP recommends Windows 10 Pro for business[2,38] Windows 10 Pro 64 (National Academic only)[3,38] Windows 10 Home 64[2,38] FreeDOS
Processor family	10th Generation Intel® Core™ i3 processor; 10th Generation Intel® Core™ i5 processor; 10th Generation Intel® Core™ i7 processor; 10th Generation Intel® Core™ i9 processor; Intel® Pentium® processor
Available Processors[4,5,6,7]	Intel® Core™ i3-10100 with Intel® UHD Graphics 630 (3.6 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores) Intel® Core™ i3-10300 with Intel® UHD Graphics 630 (3.7 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores) Intel® Core™ i5-10500 with Intel® UHD Graphics 630 (3.1 GHz base frequency, up to 4.5 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores), supports Intel® vPro® Technology Intel® Core™ i5-10600 with Intel® UHD Graphics 630 (3.3 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores), supports Intel® vPro® Technology Intel® Core™ i5-10600K with Intel® UHD Graphics 630 (4.1 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores) Intel® Core™ i7-10700 with Intel® UHD Graphics 630 (2.9 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores), supports Intel® vPro® Technology Intel® Core™ i7-10700K with Intel® UHD Graphics 630 (3.8 GHz base frequency, up to 5.1 GHz with Intel® Turbo Boost Technology, 16 MB L3 cache, 8 cores), supports Intel® vPro® Technology Intel® Core™ i9-10900 with Intel® UHD Graphics 630 (2.8 GHz base frequency, up to 5.2 GHz with Intel® Turbo Boost Technology, 20 MB L3 cache, 10 cores) Intel® Core™ i9-10900K with Intel® UHD Graphics 630 (3.7 GHz base frequency, up to 5.3 GHz with Intel® Turbo Boost Technology, 20 MB L3 cache, 10 cores) Intel® Pentium® Gold G6400 with Intel® UHD Graphics 610 (4.0 GHz base frequency, 4 MB L3 cache, 2 cores) Intel® Pentium® Gold G6600 with Intel® UHD Graphics 630 (4.2 GHz base frequency, 4 MB L3 cache, 2 cores) Intel® Pentium® Gold G6500 with Intel® UHD Graphics 630 (4.1 GHz base frequency, 4 MB L3 cache, 2 cores)
Chipset[4]	Intel® Q470 (vPro®)
Form factor	Tower
Maximum memory	128 GB DDR4-3200 SDRAM [8,9,37] Transfer rates up to 2933 MT/s.
Memory slots	4 DIMM
Internal storage	500 GB up to 2 TB 7200 rpm SATA[10] 2 TB 5400 rpm SATA[10] 500 GB SATA SED Opal 2 HDD[10] 500 GB 7200 rpm SATA FIPS SED[10] 256 GB up to 512 GB PCIe® NVMe™ M.2 SSD[10] 128 GB up to 2 TB PCIe® NVMe™ TLC M.2 SSD[10] 256 GB up to 512 GB PCIe® NVMe™ SED Opal 2 TLC M.2 SSD[10] 256 GB up to 512 GB Intel® Optane™ Memory H10 with Solid State Storage[10,39]
Storage acceleration[11]	16 GB NVMe™ Intel® Optane™ Memory for storage acceleration
Optical drive	HP 9.5 mm Slim DVD-Writer; HP 9.5 mm Slim DVD-ROM; HP 9.5 mm Slim Blu-ray writer
Available Graphics	Integrated: Intel® UHD Graphics 610; Intel® UHD Graphics 630 Discrete: NVIDIA® Quadro® P2200 (5GB GDDR5 dedicated); NVIDIA® Quadro® P1000 (4 GB GDDR5 dedicated); AMD Radeon™ R7 430 Graphics (2 GB GDDR5 dedicated); NVIDIA® Quadro® P400 (2 GB GDDR5 dedicated); NVIDIA® Quadro® P620 (2 GB GDDR5 dedicated); NVIDIA® GeForce® RTX 2080 SUPER™ (8 GB GDDR5 dedicated); NVIDIA® GeForce® RTX 2060 SUPER™ (6 GB GDDR5 dedicated); AMD Radeon™ RX 550X Graphics (4 GB GDDR5 dedicated)[13,17,18,19]
Audio	Conexant CX20632 codec, universal audio jack with CTIA and OMTP headset support
Expansion slots	1 M.2 2230; 1 PCIe 3.0 x16; 1 PCIe 3.0 x16 (wired as x4); 2 PCIe 3.0 x1; 2 M.2 2230/2242 (1 M.2 slot for WLAN and 2 M.2 2230/2242 slot for storage)
Ports and Connectors	Front: 2 SuperSpeed USB Type-A 10Gbps signaling rate; 2 SuperSpeed USB Type-A 5Gbps signaling rate Rear: 1 audio-out; 1 power connector; 1 RJ-45; 2 SuperSpeed USB Type-A 10Gbps signaling rate; 2 SuperSpeed USB Type-A 5Gbps signaling rate; 2 USB Type-A 480Mbps signaling rate; 2 DisplayPort™ 1.4; 1 SuperSpeed USB Type-C® 10Gbps (15W output, DisplayPort™ 1.2)
Optional Ports	Flex IO port – choose one of the following options: DisplayPort™ 1.4, HDMI 2.0, VGA, serial, 2 SuperSpeed USB Type-A 10Gbps signaling rate, SuperSpeed USB Type-C® 10Gbps signaling rate (15W output, DisplayPort™ 1.2), Thunderbolt™ PCIe card with USB-C; Add-on card: 1 serial and PS/2 ports combination; 1 5-in-1 SD media card reader; Add-on port: 1 serial[13,14]
Available Keyboards	HP Wired Desktop 320K Keyboard; HP USB Business Slim Antimicrobial Keyboard; HP USB and PS/2 washable keyboard and mouse combo; HP Wireless Business Slim Keyboard and mouse combo; HP USB Business Slim SmartCard CCID Keyboard; HP USB Healthcare Edition Keyboard and mouse combo; HP USB keyboard
Available Pointing Devices[20]	HP USB 1000 dpi Laser Mouse; HP USB and PS/2 Washable Mouse; HP USB Optical Mouse; HP PS/2 Mouse; HP Wired Desktop 320M Mouse
LAN[15] Network Interface[15]	Integrated Intel® I219LM GbE LOM Intel® I210-T1 PCIe® GbE
WLAN [4,16]	Intel® Wi-Fi 6 AX201 (2x2) Wi-Fi® and Bluetooth® M.2 combo card, non-vPro™ Intel® Wi-Fi 6 AX201 (2x2) Wi-Fi® and Bluetooth® M.2 combo card, vPro™
Drive Bays	1 slim ODD; One 5.25" ODD; One 2.5" HDD; Two 3.5" HDD [12]
Environmental	Operating temperature: 10 to 35°C; Operating humidity: 10 to 90% RH
Software[21]	HP Noise Cancellation Software; HP Support Assistant; Buy Office (sold separately); HP JumpStarts; HP Privacy Settings; HP Desktop Support Utilities
Security management[25,26,27,28,29,30,31,32, 33]	Power-on password (via BIOS); SATA port disablement (via BIOS); Setup password (via BIOS); Support for chassis padlocks and cable lock devices; Serial enable/disable (via BIOS); HP Secure Erase; HP Sure Click; HP Sure Sense; HP DriveLock and Automatic DriveLock; Trusted Platform Module TPM 2.0 Embedded Security Chip shipped with Windows 10. (Common Criteria EAL4+ Certified); HP Client Manager Gen 6; HP Sure Recover Gen3; HP Sure Run Gen3; HP Sure Start Gen6; HP BIOsphere Gen6
Management features	HP BIOS Config Utility (download); HP Client Catalog (download); HP System Software Manager (download); HP Cloud Recovery; HP Management Integration Kit for Microsoft System Center Configuration Management Gen 4; HP Driver Packs; HP Image Assistant Gen 5 (download)[22,23,24]
Power[34]	260 W internal power adapter, up to 92% efficiency, active PFC; 550 W internal power adapter, up to 92% efficiency, active PFC
Dimensions	14.57 x 12.13 x 6.61 in; 37 x 30.8 x 16.8 cm
Weight	21.74 lb; 9.86 kg (Exact weight depends on configuration.)
Energy efficiency compliance[35]	ENERGY STAR® certified; EPEAT® 2019 registered where applicable
Environmental specifications[36]	Low halogen
Warranty	3 year (3-3-3) limited warranty and service offering includes 3 years of parts, labor and on-site repair. Includes free 24/7 telephone support. Terms and conditions vary by country. Certain restrictions and exclusions apply.

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Accessories and services (not included)

HP HDMI Port Flex IO v2



Maximize the life of your PC as your business needs change with the flexible display connectivity of the HP HDMI Port Flex IO v2.
Product number: 13L55AA

HP 16GB DDR4-3200 DIMM



Boost the capabilities of your HP Business Desktop PC and improve system performance and application responsiveness with low-power, high-speed DDR4 memory from HP.
Product number: 13L74AA

HP Business PC Security Lock v3 Kit



Help prevent chassis tampering and secure your PC and display in workspaces and public areas with the affordable HP Business PC Security Lock v3 Kit.
Product number: 3XJ17AA

AMD Radeon R7 430 2GB DisplayPort VGA Card



Drive impressive graphics and high-resolution dual-display performance in a low profile, PCI Express x16 graphics add-in card with the AMD Radeon™ R7 430 2GB DisplayPort™ VGA Card.
Product number: 5JW82AA

HP Wired Desktop 320MK Mouse and Keyboard



Product number: 9SR36AA

Additional Services (Not included)

HP Care Pack

UE333E - HP 4 year Next Business Day Onsite with Defective Media Retention Desktop Only Support
UE334E - HP 5 year Next Business Day Onsite with Defective Media Retention Desktop Only Support

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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] Multicore 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] Sold separately or as an optional feature.
[4] Based on internal testing vs. previous generation product with 802.11ac wireless LAN module.
[5] HP Sure Admin requires Windows 10 and HP BIOS.
[6] HP Sure Start Gen5 is available on select HP PCs with Intel® processors.
[7] HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.
[8] HP Sure Click requires Windows 10 Pro or Enterprise and supports Microsoft Internet Explorer, Google Chrome™, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or Adobe Acrobat are installed.
[9] HP Sure Recover Gen3 is available on select HP PCs and requires an open network connection. Not available on platforms with multiple internal storage drives. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.
[10] HP Sure Sense requires Windows 10 Pro or Enterprise.

Technical Specifications Footnotes

[2] Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 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/.
[3] 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.
[4] For full Intel® vPro™ functionality, Windows, a vPro supported processor, vPro enabled Q370 chipset or higher and vPro enabled WLAN card are required. Some functionality, such as Intel Active management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependent on 3rd party software providers. Compatibility of this generation of Intel vPro technology-based hardware with future "virtual appliances" is yet to be determined.
[5] 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.
[6] 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 configuration. See www.intel.com/technology/turboboost for more information.
[7] 125W processor requires performance PCA.
[8] 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 2666 MT/s or 2933 MT/s as depending on processor config; with 1 DIMM per channel. Additional DIMM loading on any channel may impact maximum memory speed. Actual data rate is determined by the system's configured ; See processor specifications for supported memory data rate.
[9] All memory slots are customer accessible / upgradeable.
[10] For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.
[11] Intel® Optane™ memory is sold separately. Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system. Available for HP commercial desktops and notebooks and for select HP workstations (HP Z240 Tower/SFF, Z2 Mini, ZBook Studio, 15 and 17 G5) and requires a SATA HDD, 7th Gen or higher Intel® Core™ processor or Intel ® Xeon® processor E3-1200 V6 product family or higher, BIOS version with Intel® Optane™ supported, Windows 10 version 1703 or higher, M.2 type 2280-S1-B-M connector on a PCH Remapped PCIe Controller and Lanes in a x2 or x4 configuration with B-M keys that meet NVMe™ Spec 1.1, and an Intel® Rapid Storage Technology (Intel® RST) 15.5 driver.
[12] 4 SATA.
[13] Sold separately or as an optional feature.
[14] Thunderbolt™ 3.0 and Serial/PS/2 combo occupies a PCIe slot.
[15] Intel® I210-T1 PCIe® GbE: Sold separately or as an optional feature.
[16] Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for the 802.11ax WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the PC to communicate with 802.11ax WLAN devices. Wi-Fi 6 requires a wireless router, sold separately, that supports 802.11ax (Wi-Fi 6). Only available in countries where 802.11ax is supported.
[17] The TWR can support a single graphics card up to 300W.
[18] NVIDIA® GeForce® GTX 2060, NVIDIA® GeForce® GTX 2070, NVIDIA® GeForce® GTX 2080 require 550W chassis.
[19] AMD Radeon™ R7 430 Graphics (2 GB GDDR5 dedicated, 64bit DP+VGA) not available in all regions.
[20] 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.
[21] HP Support Assistant: Requires Windows and Internet access.
[22] HP Driver Packs: Not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
[23] HP Cloud Recovery is available for HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, wired network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: https://support.hp.com/us-en/document/c05115630.
[24] HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.
[25] HP Sure Sense requires Windows 10 Pro or Enterprise.
[26] HP BIOSphere Gen6 is available on select HP Pro and Elite PCs. See product specifications for details. Features may vary depending on the platform and configurations.
[27] HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.
[28] HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation 26PCs with select Intel® or AMD processors.
[29] HP Sure Click requires Windows 10 Pro or Enterprise and supports Microsoft Internet Explorer, Google Chrome™, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or Adobe Acrobat are installed.
[30] HP Client Security Manager Gen6 requires Windows and is available on the select HP Elite and Pro PCs.
[31] HP Sure Start Gen6 is available on select HP PCs with Intel processors.
[32] HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.
[33] HP Sure Recover Gen3 is available on select HP PCs and requires an open network connection. Not available on platforms with multiple internal storage drives. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.
[34] Performance PCA requires 550W Power Supply.
[35] EPEAT ® registration varies by country. See www.epeat.net for registration status by country. According to IEEE 1680.1-2018.
[36] External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
[37] Actual data rate is determined by both the system's configured processor and memory module installed.
[38] HP tested Windows 10, version 1809 on this platform. For testing information on newer versions of Windows 10, please see https://support.hp.com/document/c05195282.
[39] Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system. Requires 8th Gen or higher Intel® Core™ processor, BIOS version with Intel® Optane™ supported, Windows 10 64-bit, and an Intel® Rapid Storage Technology (Intel® RST) driver.

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