Datasheet

HP EliteDesk 800 G5 Tower PC

Raise the bar for performance, security, and manageability

Powered for the enterprise, the high-performance HP EliteDesk 800 TWR features superb expandability and strong security required by today's high-productivity workforce in a stylish chassis designed for the modern workplace.

HP recommends Windows 10 Pro.

- Windows 10 Pro[1]
- HP Sure Start Gen5[2]

Lead with power and performance

- Get highly responsive performance with up to a 95W 9th Gen Intel® Core™ processors[4], optional Intel® Optane™ Memory H10 with Solid State Storage[5], Thunderbolt™ 3[6], and high-end discrete graphics.

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

Strong security, powerful manageability

- Get powerful protection and simplified management from secure and manageable PCs. HP Sure Start Gen5[2] protects against BIOS attacks while the HP Manageability Integration Kit[7] allows you to easily manage devices.
- Power through your day with Windows 10 Pro with built-in security, collaboration, and connectivity.[1]
- 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™ 3 for high-speed file transfer.[6]
- 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.[2]
- To get control of your PC, attackers first need to take down its defenses. Keep critical security protections up and running and prevent unwanted changes to security settings with HP Sure Run Gen2, which provides resilience against attacks.[8]
- Help protect your PC from websites and attachments with malware, ransomware, or viruses with hardware-enforced security from HP Sure Click.[9]
- Advanced malware can seriously disrupt your business. HP Sure Recover Gen2 ensures fast, secure, and automated recovery with only a network connection.[10]
- 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.[11]
- Simplify securing your PC. HP Client Security Manager offers a single interface to set up and manage your PC's powerful security features.[12]
- The HP Manageability Integration Kit helps speed up image creation and management of hardware, BIOS, and security through Microsoft System Center Configuration Manager.[7]
- Fortify your security with up to three authentication factors including fingerprints and facial recognition.[13]
- Rest easy with a PC that goes the distance and undergoes 120,000 hours of HP's Total Test Process and MIL-STD 810G testing. Help extend protection with an optional removable dust filter.[14,15,6]
- Take advantage of HP's Elite Support, limited warranty, and Global Series support that enables stable, consistent images with managed lifecycle transitions for corporate and enterprise customers.[16]

HP recommends Windows 10 Pro.

HP EliteDesk 800 G5 Tower PC Specifications Table

Available Operating Systems	Windows 10 Pro 64 – HP recommends Windows 10 Pro.[1] Windows 10 Pro 64 (National Academic only)[2] Windows 10 Home 64[1] Windows 10 Home Single Language 64[1] FreeDOS
Processor family[17]	8th Generation Intel® Core™ i3 processor (i3-8100); 8th Generation Intel® Core™ i5 processor (i5-8500); 8th Generation Intel® Core™ i7 processor (i7-8700); 9th Generation Intel® Core™ i3 processor (i3-9100, i3-9300); 9th Generation Intel® Core™ i5 processor (i5-9500, i5-9600, i5-9600K); 9th Generation Intel® Core™ i7 processor (i7-9700, i7-9700K); 9th Generation Intel® Core™ i9 processor (i9-9900, i9-9900K); Intel® Celeron® processor (G4930 is Windows 10 only); Intel® Pentium® processor (G5420, G5600, G5620 are Windows 10 only)
Available Processors[3,9,37,39]	Intel® Celeron® G4930 with Intel® UHD Graphics 610 (3.2 GHz base frequency, 2 MB cache, 2 cores); Intel® Core™ i3-8100 with Intel® UHD Graphics 630 (3.6 GHz base frequency, 6 MB cache, 4 cores); Intel® Core™ i3-9100 with Intel® UHD Graphics 630 (3.6 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores); Intel® Core™ i3-9300 with Intel® UHD Graphics 630 (3.7 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 8 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) supports Intel® vPro™ Technology; Intel® Core™ i5-9600 with Intel® UHD Graphics 630 (3.1 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) supports Intel® vPro™ Technology; Intel® Core™ i5-9600K with Intel® UHD Graphics 630 (3.7 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) supports Intel® vPro™ Technology; 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) supports Intel® vPro™ Technology; Intel® Core™ i7-9700K with Intel® UHD Graphics 630 (3.6 GHz base frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 12 MB cache, 8 cores) supports Intel® vPro™ Technology; Intel® Core™ i9-9900 with Intel® UHD Graphics 630 (3.1 GHz base frequency, up to 5 GHz with Intel® Turbo Boost Technology, 16 MB cache, 8 cores) supports Intel® vPro™ Technology; Intel® Core™ i9-9900K with Intel® UHD Graphics 630 (3.6 GHz base frequency, up to 5 GHz with Intel® Turbo Boost Technology, 16 MB cache, 8 cores) supports Intel® vPro™ Technology; Intel® Pentium® Gold G5420 with Intel® UHD Graphics 610 (3.8 GHz base frequency, 4 MB cache, 2 cores); Intel® Pentium® Gold G5600 with Intel® UHD Graphics 630 (3.9 GHz base frequency, 4 MB cache, 2 cores); Intel® Pentium® Gold G5620 with Intel® UHD Graphics 630 (4 GHz base frequency, 4 MB cache, 2 cores); Intel® Core™ i5-9500 with Intel® UHD Graphics 630 (3 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores) supports Intel® vPro™ Technology; Intel® Core™ i7-9700 with Intel® UHD Graphics 630 (3 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB cache, 8 cores) supports Intel® vPro™ Technology
Chipset[39]	Intel® Q370 (vPro); Intel® Q370 (non-vPro)
Form factor	Tower
Maximum memory	128 GB DDR4-2666 SDRAM [4,13] 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] 256 GB up to 512 GB SATA TLC SSD [5] 256 GB up to 512 GB SATA SED Opal 2 TLC SSD [5] 256 GB up to 512 GB SATA FIPS SSD [5] 256 GB up to 1 TB PCIe® NVMe™ M.2 SSD [5] 128 GB up to 2 TB PCIe® NVMe™ TLC M.2 SSD [5] 256 GB up to 512 GB PCIe® NVMe™ SED Opal 2 TLC M.2 SSD [5] up to 512 GB Intel® Optane™ Memory H10 with Solid State Storage [5,38]
Storage acceleration	16 GB NVMe™ Intel® Optane™ Memory for storage acceleration [38]
Additional storage	5-in-1 SD card reader
Optical drive	HP 9.5 mm Slim Blu-ray writer; HP 9.5 mm Slim DVD-ROM; HP 9.5 mm Slim DVD-Writer
Available Graphics	Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics 610 Discrete: NVIDIA® GeForce® GT 730 (2 GB GDDR5 dedicated); AMD Radeon™ R7 430 Graphics (2 GB GDDR5 dedicated); NVIDIA® Quadro® P400 (2 GB GDDR5 dedicated); AMD Radeon™ RX 550 Graphics (4 GB GDDR5 dedicated); AMD Radeon™ RX 580 Graphics (4 GB GDDR5 dedicated); NVIDIA® Quadro® P620 (2 GB GDDR5 dedicated); NVIDIA® GeForce® GTX 2070 (8 GB GDDR5 dedicated); NVIDIA® GeForce® GTX 2060 (6 GB GDDR5 dedicated); NVIDIA® GeForce® GTX 2080 (8 GB GDDR5 dedicated)[18,21]
Audio	Conexant CX20632 codec, universal audio jack, headset and headphone front ports (3.5 mm), multi-streaming capable
Expansion slots	1 M.2 2230; 1 PCIe 3.0 x16; 1 PCIe 3.0 x16 (wired as x4); 2 M.2 2230/2280; 2 PCIe 3.0 x1 (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; 2 DisplayPort™ 1.2; 2 USB 2.0; 2 USB 3.1 Gen 1; 2 USB 3.1 Gen 2[19] Front: 1 headphone; 1 headset connector; 1 USB 2.0; 1 USB 2.0 (fast charging); 1 USB 3.1 Type-C™ (charging); 2 USB 3.1 Gen 2 Optional: 1 DisplayPort™ 1.2; 1 HDMI 2.0a; 1 serial; 1 serial and PS/2 ports combination; 1 Thunderbolt™ 3.0; 1 USB 3.1 Type-C™ Gen 1 (DisplayPort™); 1 VGA
Input devices	HP PS/2 Business Slim Keyboard; HP USB Conferencing Keyboard; HP USB Business Slim Keyboard; HP USB Keyboard; HP USB Premium Keyboard; HP Wireless Business Slim Keyboard and Mouse Combo; HP Wireless Collaboration Keyboard; HP USB Business Slim Antimicrobial Keyboard; HP USB Collaboration Keyboard[14]; HP PS/2 Mouse; HP USB 1000 dpi Laser Mouse; HP USB Antimicrobial Mouse; HP USB Hardened Mouse; HP USB Optical Mouse; HP USB Premium Mouse; HP USB Fingerprint Mouse[8]
Communications	LAN: Integrated Intel® I219LM GbE LOM; Intel® I210-T1 PCIe® GbE [16] WLAN: Realtek RTL8822BE-CG 802.11a/b/g/n/ac (2x2) with Bluetooth® 4.1 M.2 PCIe®; Intel® Wi-Fi 6 AX200 (2x2) and Bluetooth® M.2 Combo Card non-vPro™; Intel® Wi-Fi 6 AX200 (2x2) and Bluetooth® M.2 Combo Card vPro™; Intel® Dual Band Wi-Fi 5 9560 (2x2) and Bluetooth® 5 M.2, non-vPro™; Intel® Dual Band Wi-Fi 5 9560 (2x2) and Bluetooth® 5 M.2, vPro™ [7,31,39];
Drive Bays	1 slim ODD; One 5.25" ODD; One 2.5" HDD; Two 3.5" HDD [20]
Environmental	Operating temperature: 10 to 35°C; Operating humidity: 10 to 90% RH
Available Software	Absolute Persistence module; Buy Office (sold separately); HP Hotkey Support; HP JumpStarts; HP Noise Cancellation Software; HP Support Assistant; HP Sure Recover [22,24,26]
Security management	DriveLock; HP BIOSphere Gen5; HP Client Security Suite Gen 5; HP Password Manager; HP Power On Authentication; HP Sure Click; HP Sure Recover; HP Sure Run; HP Sure Sense; HP Sure Start Gen 5; Intel® Identity Protection Technology (Intel® IPT); Parallel enable/disable (via BIOS); Power-on password (via BIOS); RAID configurations; Removable media write/boot control; SATA port disablement (via BIOS); Serial enable/disable (via BIOS); Setup password (via BIOS); Solenoid lock and hood sensor; Support for chassis padlocks and cable lock devices; TPM 2.0 (Firmware: 7.85) endpoint security controller (Infineon SLB9670) shipped with Windows 10. Common Criteria EAL4+ Certified. FIPS 140-2 Level 2 Certified; USB enable/disable (via BIOS)[11,23,25,29,30,32,34,35,36]
Management features	HP BIOS Config Utility (download); HP Client Catalog (download); HP Cloud Recovery; HP Driver Packs (download); HP Management Integration Kit for Microsoft System Center Configuration Management Gen 3; HP System Software Manager (download)[10,27,40]
Power	250 W internal power supply, up to 92% efficiency, active PFC; 500 W internal power supply, up to 90% efficiency, active PFC
Dimensions	15.4 x 37 x 36.5 cm
Weight	9.86 kg (Exact weight depends on configuration.)
Energy efficiency compliance	ENERGY STAR® certified; EPEAT® 2019 registered where applicable[12]
Environmental specifications	Low halogen[15]

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Accessories and services (not included)

HP 16GB DDR4-2666 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. Proven performance and reliability to deliver maximum investment protection. Offering the perfect combination of performance, reliability and investment protection to any IT environment. For businesses that require superior stability and manageability with low lifecycle costs, or desktops with proven technology, superior price/performance and a wide choice of features, or even entry-level PCs that balance price and essential computing capabilities – the HP Desktop family holds the solution. Product number: 3TK83AA
AMD Radeon RX550X 4GB LP DisplayPort Card		Drive impressive graphics and high-resolution, dual-display performance in a PCI Express x16 graphics add-in card with the AMD Radeon™ RX 550X 4GB LP DisplayPort™ Card. Proven performance and reliability to deliver maximum investment protection. Offering the perfect combination of performance, reliability and investment protection to any IT environment. For businesses that require superior stability and manageability with low lifecycle costs, or desktops with proven technology, superior price/performance and a wide choice of features, or even entry-level PCs that balance price and essential computing capabilities – the HP Desktop family holds the solution. Product number: 5LH79AA
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. Proven performance and reliability to deliver maximum investment protection. Offering the perfect combination of performance, reliability and investment protection to any IT environment. For businesses that require superior stability and manageability with low lifecycle costs, or desktops with proven technology, superior price/performance and a wide choice of features, or even entry-level PCs that balance price and essential computing capabilities – the HP Desktop family holds the solution. Product number: N3R88AA
HP 3-year Next Business Day Onsite Optional Customer Self Repair Desktop/Workstation Only Hardware Service	HP Care Pack	Receive 3 years of next business day onsite repair from an HP-qualified technician for your computing device, if the issue cannot be solved remotely. For more information on Care Pack services, please visit www.hp.com/go/cpc. Product number: UE379E

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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 Gen5 is available on select HP PCs with Intel® processors. See product specifications for availability.
[4] 95W processor is an optional feature. 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.
[5] 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.
[6] Sold separately or as an optional feature.
[7] HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html.
[8] HP Sure Run Gen2: See product specifications for availability.
[9] 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, when Microsoft Office or Adobe Acrobat are installed.
[10] 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.
[11] HP Sure Sense requires Windows 10. See product specifications for availability.
[12] HP Client Security Manager Gen5 requires Windows and is available on the select HP Pro and Elite PCs. See product specifications for details.
[13] HP Multi Factor Authenticate Gen2 requires Windows, 7th or 8th generation Intel® Core™ processor, Intel® integrated graphics, and Intel® WLAN. Microsoft System Center Configuration Manager is required for deployment. Three authentication factors require Intel® vPro™.
[14] HP Total Test Process testing is not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.
[15] MIL-STD testing is pending and is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Damage under the MIL STD test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack.
[16] Elite support only available in the US and Canada in English.

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 2666 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 36 GB (for Windows 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 and not included. Availability of public wireless access points limited.
[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] 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.
[10] HP Driver Packs: Not preinstalled, however available for download at http://www.hp.com/go/clientmanagement
[23] HP BIOSphere Gen5: Requires Intel® 8th or 9th Gen processors. Features may vary depending on the platform and configurations.
[12] Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.
[13] All memory slots are customer accessible / upgradeable.
[14] HP USB Business Slim Antimicrobial Keyboard not available in all regions.
[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] AMD Radeon™ R7 430 Graphics (2 GB GDDR5 dedicated, 64bit DP+VGA) not available in all regions.
[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.
[21] AMD Radeon™ RX 580, NVIDIA® GeForce® GTX 2060, NVIDIA® GeForce® GTX 2070, NVIDIA® GeForce® GTX 2080 require 500W chassis.
[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 Drive Lock is not supported on NVMe drives.
[24] HP Support Assistant: Requires Windows and Internet access.
[25] 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, when Microsoft Office or Adobe Acrobat are installed.
[26] 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, Intel® Optane™. You must back up important files, data, photos, videos, etc. before use to avoid loss of data.
[27] HP Manageability Integration Kit: Can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html
[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] 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 Wi-Fi 6 (802.11ax) are draft 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 802.11ax devices. Only available in countries where 802.11ax is supported.
[32] HP Sure Start Gen 5: Is available on HP Elite equipped with 8th and 9th generation Intel® processors.
[34] RAID configuration: Is optional and does require a second hard drive.
[35] HP Sure Run: Is available on HP Elite equipped with 8th and 9th generation Intel® processors.
[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] Some functionality of vPro, 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 dependant on 3rd party software providers. Compatibility with future "virtual appliances" is yet to be determined.
[38] 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.
[39] For full Intel® vPro™ functionality, Windows, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN card and discrete TPM 2.0 are required. See http://intel.com/vpro
[40] 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.

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