



# HP EliteDesk 800 G5 Small Form Factor PC

Security, manageability, and performance in a modern compact design

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



HP recommends Windows 10 Pro for business

- Windows 10 Pro<sup>1</sup>
- 9th Gen Intel® Core™ Processor<sup>2</sup>

#### Lead with power and performance

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

#### Expansion that extends your investment

- The HP EliteDesk 800 SFF has enormous expandability with four bays and four half-height slots. Plus, there are three additional M.2 slots and 11 USB ports all in a compact form factor.

#### Strong security, powerful manageability

- Get powerful protection and simplified management from secure and manageable PCs. HP Sure Start Gen5<sup>2</sup> protects against BIOS attacks while the HP Manageability Integration Kit<sup>7</sup> allows you to easily manage devices.
- Power through your day with Windows 10 Pro with built-in security, collaboration, and connectivity.<sup>1</sup>
- 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.<sup>6</sup>
- 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.<sup>2</sup>
- To get control of your PC, attackers first need to take down its defenses. Keep critical security protections up and running with HP Sure Run Gen2.<sup>8</sup>
- Help protect your PC from websites and attachments with malware, ransomware, or viruses with hardware-enforced security from HP Sure Click.<sup>9</sup>
- Advanced malware can seriously disrupt your business. HP Sure Recover Gen2 ensures fast, secure, and automated recovery with only a network connection.<sup>10</sup>
- 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.<sup>11</sup>
- Simplify securing your PC. HP Client Security Manager offers a single interface to set up and manage your PC's powerful security features.<sup>12</sup>
- The HP Manageability Integration Kit helps speed up image creation and management of hardware, BIOS, and security through Microsoft System Center Configuration Manager.<sup>7</sup>
- Help keep your network and VPN safe from unauthorized access by requiring up to three factors of authentication for log-in - including optional fingerprint reader and IR camera facial recognition - with policies hardened at the silicon level.<sup>13</sup>
- 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.<sup>14,15,6</sup>
- 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.<sup>16</sup>

## HP EliteDesk 800 G5 Small Form Factor PC Specifications Table



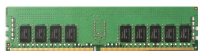
<b>Available Operating Systems</b>	Windows 10 Pro 64 – HP recommends Windows 10 Pro for business <sup>1</sup> Windows 10 Pro 64 (National Academic only) <sup>2</sup> Windows 10 Home 64 <sup>1</sup> Windows 10 Home Single Language 64 <sup>1</sup> FreeDOS
<b>Processor family<sup>19</sup></b>	8th Generation 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 (G4930T is Windows 10 only); Intel® Pentium® processor (G5420, G5600, G5620 are Windows 10 only)
<b>Available Processors<sup>3,29,36,37</sup></b>	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 630 (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 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 8 cores) supports Intel® vPro™ Technology
<b>Chipset<sup>37</sup></b>	Intel® Q370 (vPro); Intel® Q370 (non-vPro)
<b>Form factor</b>	Small form factor
<b>Maximum memory</b>	128 GB DDR4-2666 SDRAM <sup>4,13</sup> Transfer rates up to 2666 MT/s.
<b>Memory slots</b>	4 DIMM
<b>Internal storage</b>	500 GB up to 2 TB 7200 rpm SATA <sup>5</sup> up to 2 TB 5400 rpm SATA <sup>5</sup> up to 500 GB SATA SED Opal 2 HDD <sup>5</sup> up to 500 GB 7200 rpm SATA FIPS SED <sup>5</sup> 256 GB up to 512 GB SATA TLC SSD <sup>5</sup> 256 GB up to 512 GB SATA SED Opal 2 TLC SSD <sup>5</sup> 256 GB up to 512 GB SATA FIPS SSD <sup>5</sup> 256 GB up to 1 TB PCIe® NVMe™ M.2 SSD <sup>5</sup> 128 GB up to 2 TB PCIe® NVMe™ TLC M.2 SSD <sup>5</sup> 256 GB up to 512 GB PCIe® NVMe™ SED Opal 2 TLC M.2 SSD <sup>5</sup> up to 512 GB Intel® Optane™ Memory H10 with Solid State Storage <sup>5,35</sup>
<b>Storage acceleration</b>	16 GB NVMe™ Intel® Optane™ Memory for storage acceleration <sup>35</sup>
<b>Optical drive</b>	HP 9.5 mm Slim Blu-ray writer; HP 9.5 mm Slim DVD-ROM; HP 9.5 mm Slim DVD-Writer
<b>Available Graphics</b>	Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics 610 Discrete: AMD Radeon™ R7 430 Graphics (2 GB GDDR5 dedicated); AMD Radeon™ RX 550 Graphics (4 GB GDDR5 dedicated); NVIDIA® GeForce® GT 730 (2 GB DDR5 dedicated); NVIDIA® Quadro® P400 (2 GB GDDR5 dedicated); NVIDIA® Quadro® P620 (2 GB GDDR5 dedicated) <sup>20,21</sup>
<b>Audio</b>	Conexant CX20632 codec, universal audio jack, headset and headphone front ports (3.5 mm), multi-streaming capable
<b>Expansion slots</b>	1 M.2 2230; 2 M.2 2230/2280; 1 PCIe 3.0 x16; 1 PCIe 3.0 x16 (wired as x4); 2 PCIe 3.0 x1 (1 PCIe M.2 2230 slot for WLAN and 2 PCIe M.2 2230/2280 slot for storage.)
<b>Ports and Connectors</b>	Front: 1 headphone; 1 headset connector; 1 SuperSpeed USB Type-C® 10Gbps signaling rate (charging); 1 USB 2.0; 1 USB 2.0 (fast charging); 2 SuperSpeed USB 10Gbps signaling rate Rear: 1 audio-in; 1 audio-out; 1 power connector; 1 RJ-45; 2 DisplayPort™ 1.2; 2 SuperSpeed USB 10Gbps signaling rate; 2 SuperSpeed USB 5Gbps signaling rate; 2 USB 2.0 Optional Ports: 1 DisplayPort™ 1.2; 1 HDMI 2.0; 1 serial; 1 serial and PS/2 ports combination; 1 SuperSpeed USB Type-C® 5Gbps signaling rate (DisplayPort™); 1 Thunderbolt™ 3.0; 1 VGA; 1 5-in-1 SD media card reader
<b>Input devices</b>	HP PS/2 Business Slim Keyboard; HP USB Conferencing Keyboard; HP USB Business Slim Keyboard; HP USB Keyboard; HP USB Premium Keyboard; HP USB Smart Card (CCID) Keyboard; HP Wireless Business Slim Keyboard and Mouse Combo; HP Wireless Collaboration Keyboard; HP USB Business Slim Antimicrobial Keyboard; HP USB Collaboration Keyboard <sup>14</sup> ; 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 <sup>3</sup>
<b>Communications</b>	LAN: Integrated Intel® I219LM GbE LOM; Intel® I210-T1 PCIe® GbE <sup>16</sup> WLAN: 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™; 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™; Realtek RTL8822BE-CG 802.11a/b/g/n/ac (2x2) with Bluetooth® 4.1 M.2 PCIe® <sup>7,18,37</sup>
<b>Drive Bays</b>	1 slim ODD; One 2.5" HDD; Two 3.5" HDD
<b>Environmental</b>	Operating temperature: 10 to 35°C; Operating humidity: 10 to 90% RH
<b>Available Software</b>	Absolute Persistence module; HP Hotkey Support; HP Noise Cancellation Software; HP Support Assistant; Buy Office (sold separately); HP Sure Recover; HP JumpStart <sup>17,22,24</sup>
<b>Security management</b>	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 Gen5; 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) <sup>9,11,23,27,28,30,32,33,34</sup>
<b>Management features</b>	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) <sup>10,25,38</sup>
<b>Power</b>	250 W internal power supply, up to 92% efficiency, active PFC
<b>Dimensions</b>	10 x 33.8 x 30.8 cm
<b>Weight</b>	6.13 kg (Exact weight depends on configuration.)
<b>Energy efficiency compliance</b>	ENERGY STAR® certified; EPEAT® 2019 registered where applicable <sup>12</sup>
<b>Environmental specifications</b>	Low halogen <sup>15</sup>

## HP EliteDesk 800 G5 Small Form Factor PC

### Accessories and services (not included)

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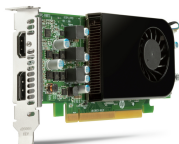
**HP 16GB DDR4-2666 DIMM**



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.  
**Product number: 3TK83AA**

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**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.  
**Product number: 5LH79AA**

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**HP Wireless Business Slim Keyboard and Mouse**



Boost productivity and maximize your workspace with the stylish and compact HP Slim Wireless Keyboard and Mouse, designed to complement the 2015 class of HP Business PCs.  
**Product number: N3R88AA**

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**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](http://www.hp.com/go/cpc).  
**Product number: UE379E**

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## HP EliteDesk 800 G5 Small Form Factor PC

### Messaging Footnotes

- <sup>1</sup> 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>.
- <sup>2</sup> HP Sure Start Gen5 is available on select HP PCs with Intel® processors. See product specifications for availability.
- <sup>4</sup> 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.
- <sup>5</sup> 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.
- <sup>6</sup> Sold separately or as an optional feature.
- <sup>7</sup> HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.
- <sup>8</sup> HP Sure Run Gen2: See product specifications for availability.
- <sup>9</sup> HP Sure Click requires Windows 10 Pro or Enterprise. See [https://bit.ly/2PrLT6A\\_SureClick](https://bit.ly/2PrLT6A_SureClick) for complete details.
- <sup>10</sup> 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.
- <sup>11</sup> HP Sure Sense requires Windows 10. See product specifications for availability.
- <sup>12</sup> HP Client Security Manager Gen5 requires Windows and is available on the select HP Pro and Elite PCs. See product specifications for details.
- <sup>13</sup> 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™.
- <sup>14</sup> 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.
- <sup>15</sup> 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.
- <sup>16</sup> Elite support only available in the US and Canada in English.

### Technical Specifications Footnotes

- <sup>1</sup> 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>.
- <sup>2</sup> 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.
- <sup>3</sup> 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.
- <sup>4</sup> 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.
- <sup>5</sup> 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.
- <sup>6</sup> (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.
- <sup>7</sup> Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited.
- <sup>8</sup> 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.
- <sup>9</sup> HP Sure Click requires Windows 10 Pro or Enterprise. See [https://bit.ly/2PrLT6A\\_SureClick](https://bit.ly/2PrLT6A_SureClick) for complete details.
- <sup>10</sup> HP Driver Packs: Not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>
- <sup>11</sup> HP BIOSphere Gen5: Requires Intel® 8th or 9th Gen processors. Features may vary depending on the platform and configurations.
- <sup>12</sup> Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit [www.epeat.net](http://www.epeat.net) for more information.
- <sup>13</sup> All memory slots are customer accessible / upgradeable.
- <sup>14</sup> HP USB Business Slim Antimicrobial Keyboard not available in all regions.
- <sup>15</sup> External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
- <sup>16</sup> Intel® I210-T1 PCIe® GbE: Sold separately or as an optional feature.
- <sup>17</sup> 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.
- <sup>18</sup> 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.
- <sup>19</sup> 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® 8th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>.
- <sup>20</sup> AMD Radeon™ R7 430 Graphics (2 GB GDDR5 dedicated, 64bit DP+VGA) not available in all regions.
- <sup>21</sup> Sold separately or as an optional feature.
- <sup>22</sup> HP Support Assistant: Requires Windows and Internet access.
- <sup>23</sup> HP Drive Lock is not supported on NVMe drives.
- <sup>24</sup> 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.
- <sup>25</sup> HP Manageability Integration Kit: Can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>
- <sup>27</sup> HP Client Security Suite Gen 4: Requires Windows and Intel® or AMD 8th generation processors.
- <sup>28</sup> 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.
- <sup>29</sup> 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](http://www.intel.com/technology/turboboost) for more information.
- <sup>30</sup> HP Sure Start Gen5: Is available on HP Elite equipped with 8th and 9th generation Intel® processors.
- <sup>32</sup> RAID configuration: Is optional and does require a second hard drive.
- <sup>33</sup> HP Sure Run: Is available on HP Elite products equipped with 8th generation Intel® or AMD processors.
- <sup>34</sup> 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.
- <sup>35</sup> 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.
- <sup>36</sup> 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.
- <sup>37</sup> 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>
- <sup>38</sup> 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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