

Datasheet

# HP EliteBook 850 G7 Notebook PC



Confidently navigate your day

A collaborative approach to work requires a powerful, secure, and durable laptop that keeps users connected and productive in any setting. Meet the demands of your multi-task, multi-place workday with the beautifully designed HP EliteBook 850 G7.



HP recommends Windows 10 Pro for business

## Designed for comfort

- Easy to carry from meeting to meeting, the ultrathin and light 15.6-inch diagonal HP EliteBook 850 G7 boasts an 86-percent screen-to-body ratio. It also includes a new keyboard and clickpad that are quiet and comfortable to work on.

## 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.

## Pursue success

- Optional 4G LTE wireless<sup>2</sup>, long battery life, and up to an optional 10th Gen six-core Intel® Core™<sup>3</sup> vPro®<sup>4</sup> processor means your laptop will be ready to help you do your best work.
- Get the exceptional combination of responsive performance, connectivity and speed with an optional 10th Gen six-core Intel® Core™ vPro® processor that lets you launch, create, and connect fast and reliably.<sup>3,4</sup>
- Instantly block prying eyes' ability to view your screen with optional HP Sure View Reflect that produces a copper reflective finish when the screen is viewed from the side making it appear unreadable.<sup>7</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>8</sup>
- Power through creative applications using high resolution 4K displays with optional NVIDIA MX250 Discrete Graphics.<sup>10</sup>
- With up to gigabit class 4G LTE powered with 4x4 antennas, your "office" can be where you need it, letting you stay connected almost everywhere.<sup>2</sup>
- The portability of your PC and the reliability of a fast connection determines where you can work. Get a fast and reliable connection in dense wireless environments with gigabit-speed Wi-Fi 6.<sup>5,6</sup>
- Never wonder if someone is watching you with the added peace-of-mind that comes from the HP Privacy Camera with a physical shutter to protect from malicious surveillance.
- Make well-being measurable and actionable at work with HP WorkWell. Designed to coach you to take breaks, exercise, and to provide productivity tips, this app recommends healthy habits personalized to you.<sup>9</sup>

## HP EliteBook 850 G7 Notebook PC Specifications Table



Available Operating Systems	Windows 10 Pro 64 – HP recommends Windows 10 Pro for business <sup>1</sup> Windows 10 Pro (National Academic only) <sup>2</sup> Windows 10 Home 64 <sup>1</sup> Windows 10 Home Single Language 64 <sup>1</sup> Windows 10 Pro (Windows 10 Enterprise available with a Volume Licensing Agreement) <sup>1</sup> FreeDOS
Processor family <sup>6</sup>	10th Generation Intel® Core™ i7 processor (i7-10810U); 10th Generation Intel® Core™ i7 processor (i7-10710U); 10th Generation Intel® Core™ i7 processor (i7-10610U); 10th Generation Intel® Core™ i7 processor (i7-10510U); 10th Generation Intel® Core™ i5 processor (i5-10310U); 10th Generation Intel® Core™ i5 processor (i5-10210U)
Available Processors <sup>3,4,5,6,40</sup>	Intel® Core™ i7-10810U with Intel® UHD Graphics (1.1 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 6 cores) Intel® Core™ i7-10710U processor with Intel® UHD Graphics (1.1 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores) Intel® Core™ i7-10610U processor with Intel® UHD Graphics (1.8 GHz base frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores), supports Intel® vPro™ Technology Intel® Core™ i7-10510U processor with Intel® UHD Graphics (1.8 GHz base frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores) Intel® Core™ i5-10310U processor with Intel® UHD Graphics (1.6 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores) Intel® Core™ i5-10210U processor with Intel® UHD Graphics (1.6 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores)
Display size (diagonal)	15.6"
Maximum memory	64 GB DDR4-2666 SDRAM <sup>7</sup> Both slots are customer accessible/upgradeable. Supports dual channel memory.
Memory slots	2 SODIMM
Internal storage	512 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 32 GB Intel® Optane™ memory H10 <sup>8,20</sup> 256 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 16 GB Intel® Optane™ memory H10 <sup>8,20</sup> 256 GB up to 1 TB PCIe® Gen3x4 NVMe™ M.2 SSD TLC <sup>9</sup> 512 GB PCIe® Gen3x4 NVMe™ M.2 SED SSD TLC <sup>9</sup> 256 GB up to 512 GB PCIe® NVMe™ Value M.2 SSD <sup>8</sup> 256 GB PCIe® M.2 SED SSD <sup>8</sup> 128 GB M.2 SATA-3 SSD TLC <sup>8</sup>
Display <sup>13,14,15,39,41</sup>	15.6" diagonal FHD, IPS, anti-glare, WLED-backlit, eDP + PSR with HP Sure View Reflect integrated privacy screen, 1000 nits, 72% NTSC (1920 x 1080) 15.6" diagonal FHD, IPS, anti-glare, WLED-backlit, eDP, 250 nits, 45% NTSC (1920 x 1080) 15.6" diagonal FHD, IPS, anti-glare, WLED-backlit, eDP, touch screen, 250 nits, 45% NTSC (1920 x 1080) 15.6" diagonal, FHD (1920 x 1080), IPS, anti-glare, 400 nits, low power, 72% NTSC
Available Graphics	Integrated: Intel® Premium UHD Graphics <sup>13</sup> Discrete: NVIDIA® GeForce® MX250 (2 GB DDR5 dedicated) <sup>16</sup> (Support HD Decode, DX12, and HDMI 1.4b.)
Audio	Bang & Olufsen, dual stereo speakers, 3 multi array microphone
Wireless technologies <sup>9,10,11</sup>	Intel® AX201 Wi-Fi 6 (2x2) and Bluetooth® 5 Combo, vPro™ Intel® AX201 Wi-Fi 6 (2x2) and Bluetooth® 5 Combo, non-vPro™ Intel® XMM™ 7360 LTE-Advanced Cat 9 Intel® XMM™ 7560 LTE-Advanced Pro Cat 16 (Compatible with Miracast-certified devices.)
Ports and Connectors	2 USB 3.1 Type-C® with Thunderbolt™ support; 2 USB 3.1 Gen 1 (1 charging); 1 headphone/microphone combo; 1 HDMI 1.4; 1 AC power (HDMI cable sold separately.)
Optional Ports	1 Smartcard reader (optional); 1 SIM card slot (optional)
Available Keyboards <sup>19</sup>	HP Premium Keyboard – spill resistant, optional backlit keyboard with drain and DuraKeys
Available Pointing Devices	Clickpad with multi-touch gesture support; Precision Touchpad with multi-touch gesture support
Sensors	Ambient light sensor; Hall sensor
Network Interface <sup>12</sup>	HP Module with NXP NFC Controller NPC300 I2C NCI (select models) Ethernet via HP accessories
Camera <sup>13,14</sup>	720p HD camera; IR Camera
Software <sup>21</sup>	HP Connection Optimizer; HP Image Assistant; HP Hotkey Support; HP Noise Cancellation Software; HP Support Assistant; Buy Office (Sold separately); HP JumpStarts; HP WorkWell
Security management <sup>24,25,26,27,28,29,30,31,32,33,34,35</sup>	Absolute persistence module; HP DriveLock and Automatic DriveLock; HP Secure Erase; Power-on authentication; TPM 2.0 embedded security chip shipped with Windows 10 (Common Criteria EAL4+ Certified); HP Sure Click; HP BIOSphere Gen5; HP Sure Sense; BIOS Update via Network; Master Boot Record Security; Support for chassis padlocks and cable lock devices; HP Client Security Manager Gen6; HP Sure Start Gen6; HP Sure Run Gen3; HP Sure Recover Gen3
Fingerprint reader	Fingerprint sensor (select models)
Management features	HP Driver Packs; HP System Software Manager (SSM); HP BIOS Config Utility (BCU); HP Client Catalog; HP Manageability Integration Kit Gen4
Power <sup>18</sup>	HP Smart 65 W External AC power adapter; HP Smart 65 W EM External AC power adapter; HP Smart 45 W External AC power adapter; HP Smart 65 W USB Type-C® adapter; HP 65 W USB Type-C® slim adapter
Battery type <sup>17</sup>	HP Long Life 3-cell, 56 Wh Li-ion Battery is internal and not replaceable by customer. Serviceable by warranty.
Dimensions	14.16 x 9.2 x 0.76 in (non-touch); 14.16 x 9.2 x 0.79 in (touch); 35.97 x 23.38 x 1.92 cm (non-touch); 35.97 x 23.38 x 2 cm (touch)
Weight	Starting at 3.69 lb (non-touch); Starting at 3.86 lb (touch); Starting at 1.67 kg (non-touch); Starting at 1.75 kg (touch) (Weight will vary by configuration.)
Energy efficiency compliance <sup>37</sup>	ENERGY STAR® certified; EPEAT® registered where applicable. EPEAT registration varies by country. See <a href="http://www.epeat.net">www.epeat.net</a> for registration status by country.
Environmental specifications <sup>38</sup>	Low halogen; TCO 8.0 Certified
Warranty <sup>36</sup>	HP Services offers 1-year or 3-year limited warranty and 90 day software support options depending on country and the SKU selected by the customer. Batteries have a default one year limited warranty except for Long Life Batteries which will have same 1-year or 3-year limited warranty as the platform. On-site service and extended coverage is also available with HP Care Pack Services, optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <a href="http://www.hp.com/go/cpc">http://www.hp.com/go/cpc</a> .

## HP EliteBook 850 G7 Notebook PC

### Accessories and services (not included)

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#### HP 65W USB-C Slim Travel Power Adapter



Use one adapter to power and charge your notebook or mobile device<sup>1</sup> and a USB accessory at the same time, in the office or on the go, with the surprisingly compact HP 65W USB-C Slim Travel Power Adapter.  
**Product number: 3PN48AA**

#### HP Executive 15.6 Top Load



Take on the world in style with an HP Executive Series notebook case that provides a polished, professional look. The sleek profile and premium materials make a bold statement and keep your devices and data on lockdown. Traveling is a breeze and device-charging is easy—even from outside the bag.  
**Product number: 6KD06AA**

#### Additional Services (Not included)



HP Care Pack

UC282E - HP 3 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 for Notebooks  
UC279E - HP 3 year Next Business Day Onsite HW Support w/Accidental Damage Protection-G2 for Notebooks

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## HP EliteBook 850 G7 Notebook PC

### Messaging Footnotes

- <sup>2</sup> Gigabit-class 4G LTE module is optional and must be configured at the factory. Module designed for up to 1 Gbps download speeds as carriers deploy 5 carrier aggregation and 100MHz channel bandwidth, requires activation and separately purchased service contract. Backwards compatible to HSPA 3G technologies. Check with service provider for coverage and availability in your area. Connection, upload, and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.
- <sup>3</sup> Six core Intel® Core™ processors are optional. 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.
- <sup>4</sup> 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 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 dependent on 3rd party software providers. Compatibility with future "virtual appliances" is yet to be determined.
- <sup>5</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.
- <sup>6</sup> Wi-Fi® supporting gigabit speeds is achievable with Wi-Fi 6 (802.11ax) when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels.
- <sup>7</sup> HP Sure View Reflect integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
- <sup>8</sup> HP Sure Sense requires Windows 10.
- <sup>9</sup> HP WorkWell requires Windows 10, is not available in all countries, and can be downloaded from the Windows Store.
- <sup>10</sup> Integrated graphics depends on processor. NVIDIA® Optimus™ technology requires an Intel processor, plus an NVIDIA® GeForce® discrete graphics configuration and is available on Windows 10 Pro OS. With NVIDIA® Optimus™ technology, full enablement of all discrete graphics video and display features may not be supported on all systems (e.g. OpenGL applications will run on the integrated GPU or the APU as the case may be).

### 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> 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.
- <sup>4</sup> Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- <sup>5</sup> 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>6</sup> 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>.
- <sup>7</sup> Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.
- <sup>8</sup> For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.
- <sup>9</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.
- <sup>10</sup> Gigabit class Category 16 4G LTE module is optional and must be configured at the factory. Module designed for up to 1 Gbps download speeds as carriers deploy 5 carrier aggregation and 100MHz channel bandwidth, requires activation and separately purchased service contract. Backwards compatible to HSPA 3G technologies. Check with service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.
- <sup>11</sup> Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- <sup>12</sup> The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.
- <sup>13</sup> HD content required to view HD images.
- <sup>14</sup> Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- <sup>15</sup> HP Sure View Reflect is sold separately or as an optional feature that must be configured at purchase.
- <sup>16</sup> Integrated graphics depends on processor. NVIDIA® Optimus™ technology requires an Intel processor, plus an NVIDIA® GeForce® discrete graphics configuration and is available on Windows 10 Pro OS. With NVIDIA® Optimus™ technology, full enablement of all discrete graphics video and display features may not be supported on all systems (e.g. OpenGL applications will run on the integrated GPU or the APU as the case may be).
- <sup>17</sup> Recharges the battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- <sup>18</sup> Availability may vary by country.
- <sup>19</sup> Backlit keyboard is an optional feature.
- <sup>20</sup> 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.
- <sup>21</sup> HP Support Assistant requires Windows and Internet access.
- <sup>22</sup> HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.
- <sup>23</sup> HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.
- <sup>24</sup> 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>25</sup> HP Drive Lock & Automatic Drive Lock is not supported on NVMe drives.
- <sup>26</sup> 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™.
- <sup>27</sup> 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). 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).
- <sup>28</sup> 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.
- <sup>29</sup> HP BIOSphere Gen5 is available on select HP Pro and Elite PCs. See product specifications for details. Features may vary depending on the platform and configurations.
- <sup>30</sup> HP Sure Sense requires Windows 10.
- <sup>31</sup> HP Client Security Manager Gen6 requires Windows and is available on the select HP Pro and Elite PCs.
- <sup>32</sup> HP Sure Start Gen5 is available on select HP PCs with Intel processors.
- <sup>33</sup> HP Sure Run Gen3 is available on select Windows 10 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.
- <sup>34</sup> 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.
- <sup>35</sup> HP Fingerprint Sensor sold separately or as an optional feature.
- <sup>36</sup> HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit [www.hp.com/go/pc](http://www.hp.com/go/pc). HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.
- <sup>37</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>38</sup> External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
- <sup>39</sup> HP Sure View Reflect privacy screen is planned to be available on August 2020.
- <sup>40</sup> 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 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 dependent on 3rd party software providers. Compatibility with future "virtual appliances" is yet to be determined.
- <sup>41</sup> Actual brightness will be lower with HP Sure View or touchscreen.

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4AA7-6812, 2020 May 28

