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HP EliteBook 830 G7 Notebook PC Specifications

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Operating system

Feature	Description
Pre-installed (Windows)	<div>Windows 10 Pro 64 (National Academic only)</div> <div>NOTE: Some devices for academic use automatically update to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary.</div> <div>Windows 10 Pro 64 (recommended by HP)</div> <div>Windows 10 Home 64</div> <div>Windows 10 Home Single Language 64</div> <div>Windows 10 Pro (Enterprise edition available with a Volume Licensing Agreement)</div>
Pre-installed (other)	FreeDOS 1.2

NOTE: Not all features are available in all editions or versions of Windows. Systems might require upgraded and/or separately purchased hardware, drivers, software, or BIOS update to take full advantage of Windows functionality. Windows 10 automatic updates are always enabled. ISP fees might apply and additional requirements might apply over time for updates. In accordance with Microsoft support policy, this product does not support Windows 8 or



Windows 7. HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation or later processors, or provide any Windows 8 or Windows 7 drivers.

Processors

Feature	Description
Intel Core i7-10810U Processor	1.1 GHz, up to 4.9 GHz with Intel Turbo Boost technology 12 MB cache, 6 cores Supports Intel vPro technology Intel UHD Graphics
Intel Core i7-10710U Processor	1.1 GHz, up to 4.7 GHz with Intel Turbo Boost technology 12 MB cache, 6 cores Intel UHD Graphics
Intel Core i7-10610U Processor	1.8 GHz, up to 4.9 GHz with Intel Turbo Boost technology 8 MB cache, 4 cores Supports Intel vPro technology Intel UHD Graphics
Intel Core i7-10510U Processor	1.8 GHz, up to 4.9 GHz with Intel Turbo Boost technology 8 MB cache, 4 cores Intel UHD Graphics
Intel Core i5-10310U Processor	1.7 GHz, up to 4.4 GHz with Intel Turbo Boost technology 6 MB cache, 4 cores Supports Intel vPro technology Intel UHD Graphics

Feature	Description
Intel Core i5-10210U Processor	1.6 GHz, up to 4.2 GHz with Intel Turbo Boost technology 6 MB cache, 4 cores Intel UHD Graphics
Chipset	Integrated with processor

NOTE: Multicore is designed to improve performance of certain software products. Not all customers or software applications necessarily benefit from use of this technology. Performance and clock frequency vary depending on application workload and hardware and software configurations. Intel numbering is not a measurement of higher performance. Processor speed denotes maximum performance mode; processors run at lower speeds in battery optimization mode.

Graphics

Feature	Description
Integrated	Intel UHD Graphics NOTE: Ultra High-definition (HD) content is required to view ultra high definition images.
Supports	HD decode DirectX 12 HDMI 1.4b

Display

Feature	Description
Touch display (optional)	<p>33.8 cm (13.3 in) diagonal FHD IPS eDP anti-glare WLED-backlit bent touch-on-panel screen for HD and IR camera, 250 nits, 45% NTSC (1920 x 1080)</p> <p>33.8 cm (13.3 in) diagonal FHD IPS eDP anti-glare WLED-backlit bent touch-on-panel screen for HD and IR camera and WWAN, 250 nits, 45% NTSC (1920 x 1080)</p>
Non-touch display (optional)	<p>33.8 cm (13.3 in) diagonal FHD IPS eDP anti-glare WLED-backlit bent, 250 nits, 45% NTSC (1920 x 1080)</p> <p>33.8 cm (13.3 in) diagonal FHD IPS eDP anti-glare WLED-backlit bent for HD camera, 250 nits, 45% NTSC (1920 x 1080)</p> <p>33.8 cm (13.3 in) diagonal FHD IPS eDP anti-glare WLED-backlit bent for HD and IR camera, 250 nits, 45% NTSC (1920 x 1080)</p> <p>33.8 cm (13.3 in) diagonal FHD IPS eDP anti-glare WLED-backlit bent for WWAN, 250 nits, 45% NTSC (1920 x 1080)</p> <p>33.8 cm (13.3 in) diagonal FHD IPS eDP anti-glare WLED-backlit bent for HD camera and WWAN, 250 nits, 45% NTSC (1920 x 1080)</p> <p>33.8 cm (13.3 in) diagonal FHD IPS eDP anti-glare WLED-backlit bent for HD and IR camera and WWAN, 250 nits, 45% NTSC (1920 x 1080)</p> <p>33.8 cm (13.3 in) diagonal FHD IPS eDP and PSR anti-glare WLED-backlit bent with Ambient Light Sensor for HD and IR camera, 400 nits, 72% NTSC (1920 x 1080)</p> <p>33.8 cm (13.3 in) diagonal FHD IPS eDP and PSR anti-glare WLED-backlit bent with Ambient Light Sensor for HD and IR camera and WWAN, 400 nits, 72% NTSC (1920 x 1080)</p> <p>33.8 cm (13.3 in) diagonal FHD IPS eDP and PSR WLED-backlit bent with HP Sure View Reflect Integrated Privacy Screen, Ambient Light Sensor for HD camera, 1000 nits, 72% NTSC (1920 x 1080)</p> <p>33.8 cm (13.3 in) diagonal FHD IPS eDP and PSR WLED-backlit bent with HP Sure View Reflect Integrated Privacy Screen, Ambient Light Sensor for HD camera and WWAN, 1000 nits, 72% NTSC (1920 x 1080)</p> <p>33.8 cm (13.3 in) diagonal FHD IPS eDP and PSR WLED-backlit bent with HP Sure View Reflect Integrated Privacy Screen, Ambient Light Sensor for HD and IR camera, 1000 nits, 72% NTSC (1920 x 1080)</p> <p>33.8 cm (13.3 in) diagonal FHD IPS eDP and PSR WLED-backlit bent with HP Sure View Reflect Integrated Privacy Screen, Ambient Light Sensor for HD and IR camera and WWAN, 1000 nits, 72% NTSC (1920 x 1080)</p>

NOTE: HP Sure View Reflect integrated privacy screen is an optional feature that must be

Feature	Description
	configured at purchase.
Supported display resolutions	Supports resolutions up to 4K at 30 Hz via HDMI v1.4b Supports resolutions up to 4K at 60 Hz via DisplayPort

NOTE: High-definition (HD) content is required to view high definition images. Resolutions are dependent upon monitor capability, and resolution and color depth settings.

Memory

Feature	Description
Standard	(2) SODIMMs Both slots are customer accessible/upgradeable DDR4 SODIMMS, system runs at 2666 MT/s Supports dual-channel memory
Configurations	64 GB DDR4-2666 SDRAM (2 x 32 GB) 32 GB DDR4-2666 SDRAM (2 x 16 GB) 16 GB DDR4-2666 SDRAM (1 x 16 GB) 16 GB DDR4-2666 SDRAM (1 x 8 GB) 8 GB DDR4-2666 SDRAM (1 x 8 GB) 8 GB DDR4-2666 SDRAM (2 x 4 GB) 4 GB DDR4-2666 SDRAM (1 x 4 GB)
Maximum	64 GB

NOTE: Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If memory speeds are mixed, the system performs at the lower memory speed.

Storage/drives

Feature	Description
Primary M.2 Solid State Drive storage	128 GB SATA-3 TLC SSD
	256 GB PCIe NVMe Value SSD
	256 GB PCIe Gen 3 x4 NVMe TLC SSD
	256 GB PCIe TLC Opal 2 SSD
	256 GB PCIe Gen 3x2x2 QLC SSD with 16 GB Intel Optane Memory
	512 GB PCIe NVMe Value SSD
	512 GB PCIe Gen 3 x4 NVMe TLC SSD
	512 GB Intel PCIe Gen 3x2x2 NVMe QLC SSD with 32 GB Intel Optane Memory
	512 GB PCIe Gen 3 x4 NVMe TLC SSD Opal 2
	1 TB PCIe Gen 3 x4 NVMe TLC SSD

NOTE: For solid state drives or hard 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.

Ports/slots

Feature	Description
Ports	(2) USB 3.1 Type-C port with Thunderbolt support
	(2) USB 3.1 Gen 1 port (1 charging)
	(1) HDMI 1.4 (cable sold separately)
	(1) Headphone/microphone combo jack
	(1) AC power input port

Feature	Description
Slot	<p>(1) Nano SIM card slot</p> <p>NOTE: All units have a SIM card stray but units that do not support WWAN are shipped with a non-removable SIM slot plug.</p> <p>(1) Smartcard reader (optional)</p> <p>(1) Nano security lock slot (lock sold separately)</p>

Audio/multimedia

Feature	Description
Audio	<p>Audio by Bang & Olufsen</p> <p>(2) Integrated stereo speakers</p> <p>Integrated 3 Multi-array Microphone</p>
Camera (sold separately or as an optional feature)	<p>720p HD camera</p> <p>720p HD and IR camera (sold separately)</p> <p>NOTE: HD content required to view HD images.</p>
Sensors	<p>Ambient light sensor</p> <p>Hall Sensor</p>

Networking/communication

Feature	Description
Wireless LAN (WLAN)	<p>Intel Wi-Fi 6 AX201 (2x2) and Bluetooth 5 combo, vPro</p> <p>Intel Wi-Fi 6 AX201 (2x2) and Bluetooth 5 combo, non-vPro</p> <p>NOTE: Wi-Fi 6 is backwards compatible with prior 802.11 specs. Wireless access point and internet service is required and is not included. Availability of public wireless access points limited. The specifications for the 802.11 WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it might affect the ability of the notebook to communicate with other 802.11 WLAN devices.</p>
WWAN	<p>Intel XMM 7560 LTE-Advanced Pro Cat 16</p> <p>NOTE: 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 100 Mhz channel bandwidth, requires activation and separately purchased service contract. Backwards compatible to HSPA 3G technologies. Connection, upload and download speeds varies due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all countries/regions.</p> <p>Intel XMM 7360 LTE-Advanced Cat 9</p>
Miracast support	Yes

Keyboard/pointing device/function keys

Feature	Description
HP Premium keyboard	<p>Spill resistant</p> <p>Optional backlit keyboard and DuraKeys</p>
Pointing device	Glass clickpad with multi-touch gestures enabled (taps enabled as default)

Feature	Description
	Microsoft Precision Touchpad default gestures supported
Function keys	<p>F1 – Display switching</p> <p>F2 – Blank or Privacy (with LED)</p> <p>F3 – Brightness down</p> <p>F4 – Brightness up</p> <p>F5 – Audio mute/unmute</p> <p>F6 – Volume down</p> <p>F7 – Volume up</p> <p>F8 – Microphone mute/unmute</p> <p>F9 – Backlight toggle</p> <p>F10 – Insert</p> <p>F11 – Airplane mode</p> <p>F12 – HP Programmable Key</p> <p>Print screen</p> <p>Power button (with LED)</p> <p>Delete</p> <p>Hidden Function Keys</p> <p>Fn + R – Break</p> <p>Fn + S – Sys rq</p> <p>Fn + C – Scroll lock</p>

Software/security



Feature	Description
BIOS	<p>HP BIOSphere Gen5 (available on select platforms)</p> <p>HP Sure Start Gen6</p> <p>HP DriveLock/HP Automatic DriveLock</p> <p>BIOS Update via Network</p> <p>Power On Authentication</p> <p>Master Boot Record Security</p> <p>HP Secure Erase (methods outlined in the National Institute of Standards and Technology Special Publication 800-88)</p> <p>Pre-boot Authentication</p> <p>Absolute Persistence Module</p> <p>NOTE: Absolute agent is 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. 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.</p>
Communication/connectivity	HP Connection Optimizer
HP Value add software	<p>HP Sure Recover Gen3 (requires internet connection and not for systems with multiple drives)</p> <p>HP Hotkey Support</p> <p>HP Image Assistant</p> <p>HP Jumpstart</p> <p>HP Support Assistant (requires Windows and internet access)</p> <p>HP Noise Cancellation software</p>

Feature	Description
Microsoft products	Buy Office (sold separately)
Manageability	<p>HP Driver packs (available for download)</p> <p>HP System Software Manager (SSM) (available for download)</p> <p>HP BIOS Configuration Utility (BCU) (available for download)</p> <p>HP Client Catalog (available for download)</p> <p>HP Management Integration Kit Gen4 for Microsoft SCCM (available for download)</p> <p>NOTE: For more information about manageability software, go to the HP Client Management Solutions webpage.</p> <p>HP Client Management Script Library</p> <p>Ivanti Management Suite</p> <p>HP Cloud Recovery (client tool available for download)</p>
Security	<p>HP Client Security Manager Gen6 (requires Windows and available on select platforms)</p> <p>HP Fingerprint Sensor (sold separately or as an optional feature)</p> <p>Windows Defender (opt in and internet connection required for updates)</p> <p>For Windows 10, Trusted Platform Module (TPM) 2.0 (Infineon SLB9670)</p> <p>Common Criteria EAL4+ Certified</p>
Other standard security features	<p>Serial, USB enable/disable (via BIOS)</p> <p>Power-on password (via BIOS)</p> <p>Setup password (via BIOS)</p> <p>HP Sure Click (available on select HP platforms and supports Internet Explorer, Google Chrome, and Chromium)</p> <p>HP Sure Sense (requires Windows)</p>

Feature	Description
	Support for chassis padlocks and cable lock devices

Power

Feature	Description
Power adapters	<p>HP Smart 45 W External AC power adapter</p> <p>HP Smart 45 W External AC power adapter, 2-prong (Japan only)</p> <p>HP Smart 65 W External AC power adapter</p> <p>HP Smart 65 W EM External AC power adapter</p> <p>65 W USB Type-C adapter</p> <p>65 W Slim USB Type-C adapter</p> <p>NOTE: Availability might vary by country/region.</p>
Power cord	<p>1.0 m (3.28 ft) 2-wire plug (Japan only)</p> <p>1.0 m (3.28 ft) 3-wire plug</p>
Primary battery	<p>HP Long Life 3-cell, 53 Wh Li-ion</p> <p>NOTE: Battery is internal and not replaceable by customer.</p> <p>Supports fast charging</p> <p>NOTE: Actual battery Watt-hours (Wh) varies from design capacity. Battery capacity naturally decreases with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors. 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 reaches 50% capacity, charging returns to normal. Charging time might vary +/-10% due to system tolerance.</p>

Feature	Description
Battery life	Up to 23 hours 15 minutes
Battery weight	0.205 g (0.45 lb)

Weight/dimensions

Specification	Description
Weight	<p>Non-touch</p> <p>Starting at 1.24 kg (2.73 lb)</p> <p>Touch</p> <p>Starting at 1.35 kg (2.98 lb)</p> <p>NOTE: Weight varies by configuration and components.</p>
Dimensions (W x D x H)	<p>Non-touch (WLAN only)</p> <p>30.78 x 20.45 x 1.80 cm (12.12 x 8.05 x 0.71 in)</p> <p>Touch (WLAN only)</p> <p>30.78 x 20.45 x 1.90 cm (12.12 x 8.05 x 0.75 in)</p> <p>Touch (WWAN)</p> <p>30.78 x 20.45 x 1.90 cm (12.12 x 8.05 x 0.75 in)</p>

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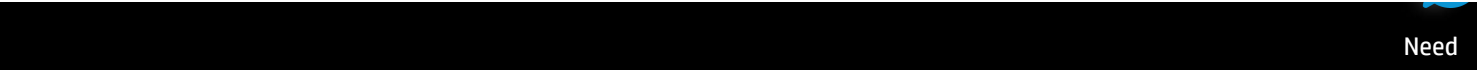
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Need

