

## HP ProBook 650 G5 Notebook PC (7LH59UT)



### Everyday made special

The contemporary and purposeful design of the HP ProBook 650 compliments enterprise-grade performance, security, manageability all while working with today's technology and continuing to support connectivity to legacy devices.



HP recommends Windows 10 Pro.

#### **Modern professional design**

This PC is built for business. The HP ProBook 650 undergoes MIL-STD 810G testing[2] and has a striking silver finish with sharp lines that embody today's bold design.

#### **High performance**

Help speed up demanding business applications with an 8th Gen Intel® Core™ processor[3]. Help keep connected with HP Extended Range Wireless LAN.

#### **Built on a secure foundation**

Protect your PC against the evolving malware threats of the future, with self-healing and manageable hardware-enforced security solutions from HP. From the BIOS to the browser HP Sure Start Gen5[7] and HP Sure Click[8] help secure your PC.

## Specifications

<b>Operating system</b>	Windows 10 Pro 64
<b>Processor family</b>	8th Generation Intel® Core™ i7 processor
<b>Processor</b>	Intel® Core™ i7-8565U with Intel® UHD Graphics 620 (1.8 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores) <sup>[6,7]</sup>
<b>Memory</b>	16 GB DDR4-2400 SDRAM (1 x 16 GB)
<b>Memory Slots</b>	2 SODIMM
<b>Internal Storage</b>	256 GB PCIe® NVMe™ M.2 SSD
<b>Optical drive</b>	DVD-ROM
<b>Graphics</b>	Integrated
<b>Graphics (integrated)</b>	Intel® UHD Graphics 620
<b>Display</b>	39.6 cm (15.6") diagonal FHD IPS eDP anti-glare LED-backlit, 250 nits, 45% NTSC (1920 x 1080)
<b>Display</b>	15.6" diagonal FHD IPS eDP anti-glare WLED-backlit, 250 nits, 45% NTSC (1920 x 1080) <sup>[11,12,16]</sup>
<b>Display size (diagonal)</b>	39.6 cm (15.6")
<b>Display size (diagonal)</b>	15.6"
<b>Audio features</b>	Dual stereo speakers, dual array microphone
<b>Minimum dimensions (W x D x H)</b>	37.7 x 25.7 x 2.39 cm (non-touch); 37.7 x 25.7 x 2.49 cm (touch)
<b>Minimum dimensions (W x D x H)</b>	14.85 x 10.12 x 0.95 in (non-touch); 14.85 x 10.12 x 0.99 in (touch)
<b>Weight</b>	Starting at 2.18 kg (non-touch); Starting at 2.4 kg (touch) (Weight will vary by configuration.)
<b>Weight</b>	Starting at 4.8 lb (non-touch); Starting at 5.29 lb (touch) (Weight will vary by configuration.)
<b>Keyboard</b>	Full-size, spill-resistant, backlit keyboard with numeric keypad
<b>Camera</b>	720p HD camera
<b>Ports</b>	2 USB 3.1 Gen 1 (1 charging); 1 USB 3.1 Type-C™ Gen 1 (Power delivery, DisplayPort™); 1 RJ-45; 1 headphone/microphone combo; 1 HDMI 1.4; 1 docking connector; 1 AC power; 1 VGA or Serial Port (Cables are not included.)
<b>Expansion slots</b>	1 microSD
<b>Wireless</b>	Intel® Dual Band Wireless-AC 9560 802.11 a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 Combo, non-vPro™
<b>Power</b>	HP Smart 45 W External AC power adapter <sup>[34,35]</sup>
<b>Battery type</b>	HP Long Life 3-cell, 48 Wh Li-ion
<b>Energy efficiency</b>	ENERGY STAR® certified
<b>Management features</b>	HP Driver Packs; HP System Software Manager (SSM); HP BIOS Config Utility (BCU); HP Client Catalog; HP Manageability Integration Kit Gen3 <sup>[20,21]</sup>
<b>Environmental</b>	Low halogen; TCO 5.0 Certified
<b>Security management</b>	Absolute persistence module; HP DriveLock and Automatic DriveLock; HP Fingerprint Sensor; HP Secure Erase; Power-on authentication; Preboot authentication; Smart card reader; TPM 2.0 embedded security chip shipped with Windows 10 (Common Criteria EAL4+ Certified); HP Sure Click; Windows Defender; HP Sure Start Gen5; HP BIOSphere Gen5; HP Client Security Gen5; HP Sure Sense <sup>[22,23,24,25,26,27,28,29,30,31,40,42]</sup>
<b>Warranty</b>	HP Services offers 3-year and 1-year limited warranties 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> . <sup>[36]</sup>

## Accessories and services

No Recommended Accessories and Services

## Messaging Footnotes

[2] MIL STD 810G 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.

[3] Quad 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.

[7] HP Sure Start Gen5 is available on select HP PCs with Intel processors. See product specifications for availability.

[8] 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. Check <http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-0922ENW> for all compatible platforms as they become available.

## Technical Specifications Footnotes

[6] 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 is not a measurement of higher performance.

[7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See <http://www.intel.com/technology/turboboost/> for more information.

[11] Sold separately or as an optional feature.

[12] HD content required to view HD images.

[16] Resolutions are dependent upon monitor capability, and resolution and color depth settings.

[20] HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.

[21] HP Manageability Integration Kit can be downloaded from <http://www.hp.com/go/clientmanagement>.

[22] 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 & Automatic Drive Lock is not supported on NVMe drives.

[24] HP Fingerprint Sensor sold separately or as an optional feature.

[25] 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™.

[26] 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).re 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).

[27] HP Sure Click is available on most HP PCs and supports Microsoft® Internet Explorer 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.

[28] Windows Defender Opt in and internet connection required for updates.

[29] HP Sure Start Gen5 is available on select HP PCs with Intel processors. See product specifications for availability.

[30] 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.

[31] HP Client Security Manager Gen5 requires Windows and is available on the select HP Pro and Elite PCs. See product specifications for details.

[34] Recharges the battery up to 90% within 90 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 90% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

[35] Availability may vary by country.

[36] 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/cpc](http://www.hp.com/go/cpc). 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.

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