

HP ProBook 650 G5 Notebook



Operating System

Windows 10 Pro 64
Windows 10 Pro 64 (National Academic only)
Windows 10 Home 64 – HP recommends Windows 10 Pro for business
Windows 10 Home Single Language 64
Windows 10 Pro (Windows 10 Enterprise available with a Volume Licensing Agreement)
FreeDOS 1

Processor Family

8th Generation Intel® Core™ i7 processor (i7-8565U); 8th Generation Intel® Core™ i5 processor (i5-8265U); 8th Generation Intel® Core™ i3 processor (i3-8145U); 8th Generation Intel® Core™ i7 processor (i7-8665U); 8th Generation Intel® Core™ i5 processor (i5-8365U)

Available Processors

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 L3 cache, 4 cores); Intel® Core™ i7 8665U vPro™ processor with Intel® UHD Graphics 620 (1.8 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores); Intel® Core™ i5-8265U with Intel® UHD Graphics 620 (1.6 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores); Intel® Core™ i5 8365U vPro™ processor with Intel® UHD Graphics 620 (1.6 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 4 cores); Intel® Core™ i3-8145U with Intel® UHD Graphics 620 (2.1 GHz base frequency, up to 3.9 GHz with Intel® Turbo Boost Technology, 4 MB L3 cache, 2 cores)

Display size (diagonal)

15.6"

Maximum memory

32 GB DDR4-2400 SDRAM
Both slots are customer accessible/upgradeable. Supports dual channel memory

Memory slots

2 SODIMM

Internal storage

up to 512 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 32 GB Intel® Optane™ memory H10
up to 256 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 16 GB Intel® Optane™ memory H10
256 GB up to 2 TB PCIe® Gen3x4 NVMe™ M.2 SSD TLC
256 GB up to 512 GB M.2 SATA FIPS 140-2 SSD TLC
up to 512 GB PCIe® Gen3x4 NVMe™ M.2 SED SSD TLC
up to 512 GB PCIe® M.2 Value SSD

up to 256 GB PCIe® NVMe™ Value M.2 SSD
up to 256 GB M.2 SATA-3 SED SSD
up to 128 GB M.2 SATA-3 SSD TLC
500 GB up to 1 TB 7200 rpm SATA
up to 500 GB 7200 rpm SATA FIPS 140-2 SED

Storage acceleration

16 GB PCIe® NVMe™ Intel® Optane™ Memory for storage acceleration

Optical drive

DVD-ROM; DVD-Writer

Display

15.6" diagonal HD SVA eDP anti-glare WLED-backlit slim, 220 nits, 45% NTSC (1366 x 768); 15.6" diagonal FHD IPS eDP anti-glare WLED-backlit slim, 250 nits, 45% NTSC (1920 x 1080); 15.6" diagonal FHD IPS eDP WLED-backlit slim touch screen, 250 nits, 45% NTSC (1920 x 1080); 15.6" diagonal FHD IPS eDP + PSR WLED-backlit ultraslim touch screen with HP Sure View Gen3 Integrated Privacy Screen, 650 nits, 72% NTSC (1920 x 1080)

Available Graphics

Integrated: Intel® UHD Graphics 620
Discrete: AMD Radeon™ 540X (2 GB GDDR5 dedicated)
(Support HD Decode, DX12, and HDMI 1.4b.)

Wireless technologies

Intel® Dual Band Wireless-AC 9560 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 Combo, vPro™; Intel® Dual Band Wireless-AC 9560 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 Combo, non-vPro™; Intel® XMM™ 7360 LTE-Advanced Cat 9; Intel® XMM™ 7262 LTE-Advanced Cat 6; Intel® AX200 Wi-Fi 6 (2x2) and Bluetooth® 5 Combo, vPro™; Intel® AX200 Wi-Fi 6 (2x2) and Bluetooth® 5 Combo, non-vPro™

Expansion slots

1 microSD

Ports and Connectors

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.)

Input devices

HP Advanced Keyboard, Spill-resistant with drain, optional DuraKeys and backlit ; Clickpad with multi-touch gesture support

Communications

HP Module with NXP NFC Controller NPC300 I2C NCI; Intel® I219-LM GbE, vPro™; Intel® I219-V GbE, non-vPro™

Camera

Camera 720p HD camera

Available Software

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

Management features

HP Driver Packs; HP System Software Manager (SSM); HP BIOS Config Utility (BCU); HP Client Catalog; HP Manageability Integration Kit Gen3

Power

HP Smart 65 W External AC power adapter; HP Smart 65 W EM External AC power adapter; HP Smart 65 W USB Type-C™ adapter; HP Smart 45 W External AC power adapter; HP Smart 45 W USB Type-C™ adapter; HP Smart 45 W 2-prong External AC power adapter

Battery type

Battery type HP Long Life 3-cell, 48 Wh Li-ion

Battery life

Up to 15 hours

Dimensions

Dimensions 37.7 x 25.7 x 2.39 cm (non-touch); 37.7 x 25.7 x 2.49 cm (touch)

Weight

Starting at 2.18 kg (non-touch); Starting at 2.4 kg (touch) (Weight will vary by configuration.)

Energy efficiency compliance

ENERGY STAR® certified; EPEAT® Silver

Environmental specifications

Low halogen; TCO 5.0 Certified

Warranty

HP Services offers 3-year and 1-year limited warranties and 90 days 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: <http://www.hp.com/go/cpc>.