HP 250 G7 Notebook PC Specifications

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Product image

Operating systems

Feature	Description
Preinstalled	Windows 10 Pro 64 (National Academic only)
	NOTE: Some devices for academic use automatically update to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary.
	Windows 10 Pro 64
	Windows 10 Home Single Language 64
	Windows 10 Home 64
	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.
	FreeDOS 1.2

NOTE: In accordance with Microsoft support policy, 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 i3-1005G1	1.2 GHz base frequency, up to 3.4 GHz with Intel Turbo Boost Technology
	4 MB L3 cache and 2 cores
	Intel UHD Graphics 620
Intel Core i3-1005G1 (with 16 GB Intel Optane memory)	1.2 GHz base frequency, up to 3.4 GHz with Intel Turbo Boost Technology
	With 16 GB Intel Optane memory
	4 MB L3 cache and 2 cores
	Intel UHD Graphics 620
Intel Core i3-8130U	2.2 GHz base frequency, up to 3.4 GHz with Intel Turbo Boost Technology
	4 MB L3 cache and 4 cores
	Intel HD Graphics 620
Intel Core i3-8130U (with 16 GB Intel Optane memory)	2.2 GHz base frequency, up to 3.4 GHz with Intel Turbo Boost Technology
	With 16 GB Intel Optane memory
	4 MB L3 cache and 4 cores
	Intel HD Graphics 620
Intel Core i5-1035G1	1.0 GHz base frequency, up to 3.6 GHz with Intel Turbo Boost Technology
	6 MB L3 cache and 4 cores
	Intel UHD Graphics 620
Intel Core i5-1035G1 (with 16 GB Intel Optane memory)	1.0 GHz base frequency, up to 3.6 GHz with Intel Turbo Boost Technology

Need help?

Feature	Description
	With 16 GB Intel Optane memory 6 MB L3 cache and 4 cores Intel UHD Graphics 620
Intel Core i7-1065G7	1.3 GHz base frequency, up to 3.9 GHz with Intel Turbo Boost Technology 8 MB L3 cache and 4 cores Intel Iris Plus Graphics
Intel Core i7-1065G7 (with 16 GB Intel Optane memory)	1.3 GHz base frequency, up to 3.9 GHz with Intel Turbo Boost Technology With 16 GB Intel Optane memory 8 MB L3 cache and 4 cores Intel Iris Plus Graphics
Intel Core i7-8550U	1.8 GHz base frequency, up to 4.0 GHz with Intel Turbo Boost Technology 8 MB cache and 4 cores Intel UHD Graphics 620
Intel Core i7-8650U	1.9 GHz base frequency, up to 4.2 GHz with Intel Turbo Boost Technology 8 MB cache and 4 cores Intel UHD Graphics 620
Intel Pentium Gold Processor 4417U	2.3 GHz base frequency 2 MB cache and 2 cores Intel HD Graphics 610
Intel Pentium Silver Processor N5030	1.1 GHz base frequency, up to 3.1 GHz burst frequency 4 MB cache and 4 cores Intel UHD Graphics 605
Intel Celeron Processor N4020	1.1 GHz base frequency, up to 2.8 GHz burst frequency 4 MB cache and 2 cores Intel UHD Graphics 600
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 Iris Plus graphics Intel UHD Graphics 620 Intel UHD Graphics 605 Intel UHD Graphics 600 Intel HD Graphics 620 Intel HD Graphics 610 Intel HD Graphics 400 **NOTE:** HD content required to view HD images.
Discrete	NVIDIA GeForce MX130 (2 GB DDR5 dedicated) NVIDIA GeForce MX110 (2 GB DDR5 dedicated) **NOTE:** 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 might not be supported on all systems.
Supported	HD decode DirectX12 HDMI 1.4b

Display

Feature	Description
Internal	**Non-touch HD (optional)** 39.62 cm (15.6 in) diagonal HD SVA eDP anti-glare WLED-backlit, 67% sRGB, 220 cd/m² (1366 x 768) **Non-touch FHD (optional)** 39.62 cm (15.6 in) diagonal FHD SVA eDP anti-glare WLED-backlit, 67% sRGB, 220 cd/m² (1920 x 1080)

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Feature	Description
	NOTE: HD content required to view HD images. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
Supported resolutions (HDMI)	Up to 1920 x 1200 external resolution at 60 Hz

Storage/drives

Feature	Description
Primary M.2 Solid State Drive storage	128 GB SATA-3 TLC SSD 256 GB SATA-3 TLC SSD 256 GB PCIe Gen 3 x4 NVMe Value SSD 512 GB PCIe Gen 3 x4 NVMe Value SSD 16 GB Intel Optane Memory Cache
Primary Hard Disk Drive storage	500 GB 5400 rpm SATA 500 GB 7200 rpm SATA 1 TB 5400 rpm SATA
Optional integrated Optical Disc Drive (ODD)	DVD Writer

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. Intel Optane memory system acceleration does not replace or increase the DRAM in your system and requires configuration with an optional Intel Core (i3, i5 or i7)+ processor.

Memory

Feature	Description
Standard	DDDR4-PC4 SODIMMS
Slots	**With Intel 10th and 8th** (2) SODIMM slots (both slots are customer non-accessible/non-upgradable) Supports dual-channel memory **Intel N5030 and N4020 processor** (1) SODIMM slot (slot is customer non-accessible/non-upgradable) Supports single-channel memory
Memory speed	Maximum up to 2666 MT/s
Configurations	16 GB DDR4-2666 SDRAM (2 x 8 GB) 8 GB DDR4-2666 SDRAM (2 x 4 GB) 8 GB DDR4-2666 SDRAM (1 x 8 GB) 4 GB DDR4-2666 SDRAM (1 x 4 GB) 16 GB DDR4-2400 SDRAM (2 x 8 GB) 12 GB DDR4-2400 SDRAM (1 x 8 GB and 1 x 4 GB) 8 GB DDR4-2400 SDRAM (2 x 4 GB) 8 GB DDR4-2400 SDRAM (1 x 8 GB) 4 GB DDR4-2400 SDRAM (1 x 4 GB) 8 GB DDR4-2133 SDRAM (1 x 8 GB) 4 GB DDR4-2133 SDRAM (1 x 4 GB) 4 GB DDR3L-1600 SDRAM (1 x 4 GB) 8 GB DDR3L-1600 SDRAM (1 x 8 GB)
Maximum	16 GB DDR4-2666 SDRAM 16 GB DDR4-2400 SDRAM

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.

Ports/slots

Feature	Description
Ports	(1) USB 2.0 (2) USB 3.1 Gen 1 (1) HDMI v1.4b (cable are sold separately) (1) RJ-45/Ethernet port (1) Headphone/microphone combo jack (1) AC power port
Slot	(1) Smart card reader

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Feature	Description
	Supports SD, SDHC, and SDXC

Networking/communication

Feature	Description
Wireless LAN (WLAN)	Realtek 802.11ac (2x2) Wi-Fi and Bluetooth 5.0 Combo (MU-MIMO supported) Realtek RTL8821CE 802.11ac (2x2) Wi-Fi and Bluetooth 4.2 Combo (MU-MIMO supported) Realtek RTL8822BE 802.11ac (1x1) and Bluetooth 4.2 Combo Realtek RTL8822BE 802.11b/g/n (1x1) and Bluetooth 4.2 Combo **NOTE:** Wireless access point and internet service is required and is not included. Availability of public wireless access points limited. The specifications for the 802.11ac 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 802.11ac WLAN devices.
Miracast	Supported
Ethernet	Integrated 10/100/1000 GbE NIC **NOTE:** 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.

Audio/multimedia

Feature	Description
Audio	(2) Integrated dual-array microphone Integrated stereo speakers
Camera (optional)	HP TrueVision HD Camera **NOTE:** HD content required to view HD images. Internet access required.
Webcam (optional)	VGA webcam **NOTE:** Internet access required.

Keyboards/pointing devices/function keys

Feature	Description
HP Premium keyboard	Full size textured island-style keyboard with numeric pad
Pointing device	Touchpad with multi-touch gesture support enabled
Function keys	**Function keys** F1 – Open 'How to get help in Windows 10' webpage F2 – Brightness down F3 – Brightness up F4 – Display switching F5 – Blank F6 – Microphone mute F7 – Volume down F8 – Volume up F9 – Previous F10 – Play/Pause F11 – Next F12 – Airplane mode

Software/security

Feature	Description
HP Value add software	HP Jumpstart HP Support Assistant (requires Windows and internet access) HP Documentation HP Setup Integrated OOBE HP Audio Switch
Security	McAfee LiveSafe For Windows 10, Trusted Platform Module (TPM) 2.0 (Infineon SLB9670)

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Power

Feature	Description
Power supply	**Adapters** HP 45 W Smart External AC Adapter HP 65 W Smart EM External AC power adapte HP 65 W Smart External AC Adapter **Power cord** 3-wire plug (C5), 1.0 m (3.28 ft) **NOTE:** Availability might vary by country/region.
Primary battery	HP 3-cell Long Life (41 WHr) Li-ion **NOTE:** Battery is internal and not replaceable by customer. HP Fast Charge technology **NOTE:** 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 returns to normal. Charging time might vary +/-10% due to system tolerance.
Battery life	Up to 12 hours and 30 minutes **NOTE:** Windows 10 MM14 battery life varies depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery naturally decreases with time and usage.
Battery weight	0.18 kg (0.4 lb)

Physical specifications

Feature	Description
Weight	Starting at 1.78 kg (3.92 lb) **NOTE:** Weight varies by configuration and components.
Dimensions (W x D x H)	37.59 x 24.59 x 2.26 cm (14.8 x 9.68 x 0.89 in)

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