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HP 250 G7 Notebook PC Specifications | HP® Customer Support

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HP 250 G7 Notebook PC Specifications

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Product image



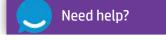
Operating systems

| 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 |



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|---|---|--|
| 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 TechnologyWith 16 GB Intel Optane memory8 MB L3 cache and 4 coresIntel 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 frequency4 MB cache and 4 coresIntel UHD Graphics 605 | |
| Intel Celeron Processor N4020 | 1.1 GHz base frequency, up to 2.8 GHz burst frequency4 MB cache and 2 coresIntel UHD Graphics 600 | |
| Chipset | Integrated with processor | |

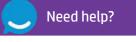
NOTE: Multicore is designed to improve performance of certain software products. Not all customers or software applications necessarily benefit from use of this technology. Performance and clock frequency vary depending on application workload and hardware and software configurations. Intel numbering 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

| Description |
|--|
| 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.

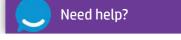
Memory

| 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 8 GB) 4 GB DDR4-2133 SDRAM (1 x 4 GB) 8 GB DDR4-2133 SDRAM (1 x 4 GB) 4 GB DDR3L-1600 SDRAM (1 x 4 GB) 8 GB DDR3L-1600 SDRAM (1 x 4 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

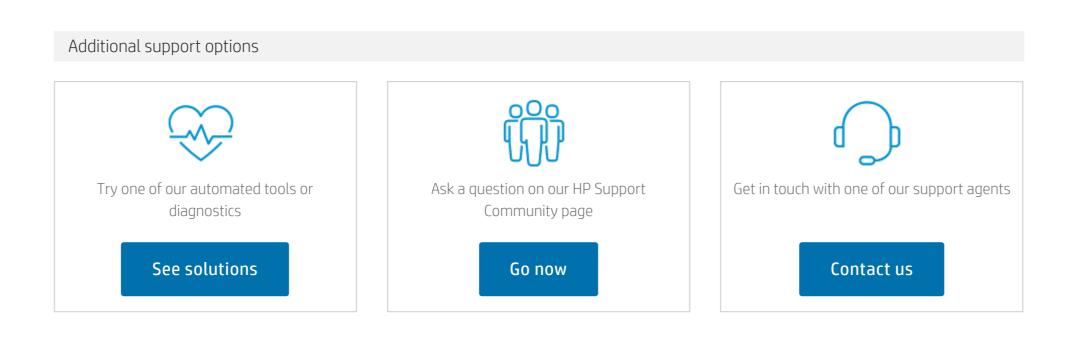
| Feature | Description |
|-----------------------|--|
| HP Value add software | HP Jumpstart HP Support Assistant (requires Windows and internet access) HP Documentation HP Setup Integrated OOBE HP Audio Switch |
| Security | McAfee LiveSafe For Windows 10, Trusted Platform Module (TPM) 2.0 (Infineon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

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) |



Country/Region: United States

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