Step up performance. Not size

Pro-level performance combines with true mobility in this amazingly sleek and powerful laptop. Stay productive wherever you're working with pro-grade graphics and processor, Alenhanced webcam and audio, and a color-accurate display—everything you need to collaborate and manage projects anywhere.

Upgrade to pro-level performance

Say goodbye to lags and crashes with fast responsiveness. With up to an Intel® Core™ Ultra 9 CPU with optional Intel vPro®1.2, NVIDIA RTX™ A500 Laptop GPU,³ and 64GB of memory,⁴ open large files and run pro apps simultaneously for speedy multitasking.

Work all day.⁶ Anywhere

Starting at 3.88 lbs,⁵ our most mobile ZBook is made to move. With a long-lasting battery this sleek yet durable device is small enough to fit in your bag so you can stay productive anywhere. This is high performance workstation power on the go.

Connect. Communicate. Collaborate

Collaborate effectively wherever you go with ZBook Firefly. The 5MP camera, Al Noise Suppression software to block background noises and Wi-Fi 6E⁹ or 5G options let you seamlessly connect from almost anywhere.



*Product image may differ from actual product

Sustainability in action

Help protect our shared future with PCs that drive towards increasing sustainability

At HP, we care about the impact our products have on our people, communities, and the planet. That's why this device is EPEAT® Gold registered 12 and the outer box packaging is 100% sustainably sourced 13.



Featuring

Windows 11

Work without compromising on performance with Windows 11¹ combined with HP's collaboration and security technology.

Intel® Core™ Ultra Processor2

Unleash productivity with a new architecture that delivers power-efficient performance for complex business workloads and is purpose-built for the next era of Al software by sending the right task to the right engine at the right time.

NVIDIA® Graphics

Tackle your biggest projects with an optional NVIDIA RTX™ A500 Laptop GPU,⁴ certified for pro apps.

Lightning-Fast Storage

Blitz through multiple tasks and ditch external drives with up to 2 TB local NVMe storage⁵.

Large Memory Configurations

Power through projects with up to 64 GB RAM⁶ for fast editing and design.

OLED Display

With display technology that lights each pixel separately, you'll get deeper blacks for richer contrast and enhanced color than traditional LED screens.⁴

16:10 Aspect Ratio

The 16:10 aspect ratio reduces the need to scroll by showing 11% more vertical content than a 16:9 aspect ratio display. See more of your project without minimizing program menus or toolbars.

Easy Battery Management

Manage and monitor your battery's performance and condition and customize charging options with the easy-to-use HP Power Manager dashboard.⁹

HP Fast Charge

Long battery life gets you through a day of meetings without plugging in. Quickly recharge your PC with HP Fast Charge. You'll get up to 50% battery life in just 30 minutes of charging. 10

Wi-Fi 6E

Get a fast and reliable connection in dense wireless environments with Wi-Fi 6E. 12

5G WWAN

Connect almost anywhere with optional support for up to 5G wireless broadband technology with 4x4 antennas that can deliver fast download and upload speeds.¹³

HP Wolf Security

HP Wolf Security for Business creates a hardware-enforced, always-on, resilient defense. From the BIOS to the browser, above, in, and below the OS, these constantly evolving solutions help protect your PC from modern threats.¹⁵



Technical specifications

	Available Operating Systems	Windows 11 Pro ¹ Windows 11 Pro Education ¹ Windows 11 Home - HP recommends Windows 11 Pro for Business ¹ Windows 11 Home Single Language - HP recommends Windows 11 Pro for Business ¹ Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement) ¹ FreeDOS
	Processor family ^{2,3,4,5,6,47}	Intel® Core™ Ultra 5 processor Intel® Core™ Ultra 7 processor
	Available Processors ^{2,3,4,5,6,36,39,47}	Intel® Core™ Ultra 5 135H (up to 3.6 GHz E-core Max Turbo frequency, up to 4.6 GHz P-core Max Turbo frequency, 18 MB L3 cache, 4 P-cores and 8 E-cores, 18 threads) Intel® Core™ Ultra 7 165H (Up to 3.8 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 22 threads), supports Intel® vPro® Technology Intel® Core™ Ultra 7 155H (up to 3.8 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 22 threads) Intel® Core™ Ultra 5 125H (up to 3.6 GHz E-core Max Turbo frequency, up to 4.5 GHz P-core Max Turbo frequency, 18 MB L3 cache, 4 P-cores and 8 E-cores, 18 threads) Intel® Core™ Ultra 7 165U (Up to 3.8 GHz E-core Max Turbo frequency, up to 4.9 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores, 14 threads), supports Intel® vPro® Technology Intel® Core™ Ultra 7 155U (up to 3.8 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores, 14 threads) Intel® Core™ Ultra 5 135U (up to 3.6 GHz E-core Max Turbo frequency, up to 4.4 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores, 14 threads), supports Intel® vPro® Technology Intel® Core™ Ultra 5 125U (up to 3.6 GHz E-core Max Turbo frequency, up to 4.3 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores, 14 threads), supports Intel® vPro® Technology Intel® Core™ Ultra 5 125U (up to 3.6 GHz E-core Max Turbo frequency, up to 4.3 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores™ Ultra 5 125U (up to 3.6 GHz E-core Max Turbo frequency, up to 4.3 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores™ Ultra 5 125U (up to 3.6 GHz E-core Max Turbo frequency, up to 4.3 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores™ Ultra 5 125U (up to 3.6 GHz E-core Max Turbo frequency, up to 4.3 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores and 8 E-cores™ Ultra 5 125U (up to 3.6 GHz
	Chipset	Intel® Integrated SoC
	Maximum memory	64 GB DDR5-5600 non-ECC SDRAM; 8,30
	Memory slots	2 SODIMM; supports dual channel ⁴¹
	Internal storage	256 GB up to 2 TB PCle® Gen4 x4 NVMe™ M.2 2280 TLC SSD ⁷ 256 GB up to 1TB PCle® Gen4 x4 NVMe™ M.2 2280 TLC SED OPAL 2 SSD ⁷ 256 GB up to 1TB PCle® Gen4 x4 NVMe™ M.2 2280 SSD ⁷
	Display size (diagonal, metric)	40.6 cm (16")
	Display ^{33,37}	40.6 cm (16") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 400 nits, 100% sRGB; 40.6 cm (16") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 1000 nits, 100% sRGB, HP Sure View Reflect integrated privacy screen; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC; 35.6 cm (14") diagonal, WUXGA (1920 x 1200), touch, IPS, anti-glare, 300 nits, 45% NTSC
	Available Graphics	Integrated: Intel® Graphics; Intel® Arc™ Pro Graphics ^{27,28,32,50} Discrete: NVIDIA RTX™ A500 Laptop GPU (4 GB GDDR6 dedicated) ^{12,32} (Intel® Iris® X® Graphics capabilities require system to be configured with Intel® Core™ Ultra 5 or Ultra 7 processors and dual channel memory. Intel® Iris® X® Graphics with Intel® Core™ Ultra 5 or Ultra 7 processors and single channel memory will only function as UHD graphics.)
	Audio	Audio by Poly Studio, dual stereo speakers, HP World Facing Microphone dual array digital microphones, functions keys for volume up and down, combo microphone/headphone jack, HD audio
	Ports and connectors	Left side: 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 USB Type-A 5Gbps signaling rate; 1 HDMI 2.1 ^{25,36,57} ; Right side: 1 USB Type-A 5Gbps signaling rate; 1 headphone/microphone combo; Optional Ports: 1 External Nano SIM slot for WWAN
	Input devices	HP Premium Quiet Keyboard – spill-resistant, full-size keyboard with drain and DuraKeys; HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys; Clickpad with multi-touch gesture support, taps enabled as default; Microsoft Precision Touchpad with gesture support
	Communications	WLAN: Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, vPro®; Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card, non-vPro®9; WWAN: HP 4000 4G LTE Advanced Pro®10
	Camera	5MP Camera; IR Camera (optional) 13,14
	Software	Bing Search for IE11; HP Hotkey Support; HP Noise Cancellation Software; HP Recovery Manager; HP Support Assistant ¹⁸ ; HP Native Miracast Support ²² ; HP Connection Optimizer ²⁶ ; myHP ³⁵ ; HP PC Hardware Diagnostics UEFI; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Programmable Key; HP QuickDrop ⁵⁵ ; HP Touchpoint Customizer; HP Services Scan ⁴⁸ ; HP Anyware ²¹ ; Buy Microsoft Office (Sold separately) ¹⁹ ; Copilot in Windows with Copilot key ²⁰
	Security management	HP Sure Click ²⁹⁴³ ; HP Secure Erase ⁴⁰ ; HP Manageability Integration Kit ³⁸ ; HP Sure Sense ³⁴ ; HP BIOSphere Gen6 ²⁴ ; HP Sure Start Gen6 ⁴⁵ ; MS Bitlocker Encryption; Nano Security Lock Slot; HP Image Assistant Gen4.6; HP TPM Configuration Utility; HP Sure Run Gen4 ³¹ ; HP Client Security Manager Gen7 ⁴⁴ ; HP Sure Recover Gen4 with Embedded Reimaging ⁴² ; Secured-core PC capable ³² ; TPM 2.0 Embedded Security Chip; Infineon SLB9670; Camera privacy shutter
	Fingerprint reader	Fingerprint reader (select models)
_		



Technical specifications

Management features	HP Client Catalog; HP Power Manager ¹⁵ ; HP Client Management Script Library (download); HP Driver Packs (download); HP Image Assistant Gen5 (download); HP Patch Assistant (download); HP Cloud Recovery ⁵⁶ ; HP Connect for Microsoft Endpoint Manager ⁴⁶
Memory card device	1 smart card reader (select models)
Power	HP Smart 65 W External AC USB Type-C® power adapter; HP Smart 100 W External AC USB Type-C® power adapter
Battery type	HP Long Life 3-cell, 56 Wh Li-ion polymer; HP Long Life 6-cell, 76 Wh Li-ion polymer ^{30,49} ;
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes ²³
Dimensions	35.87 x 25.13 x 1.92 cm; 552 x 69 x 345 mm (Package)
Weight	Starting at 1.79 kg; (Weight varies by configuration and components.)
Ecolabels	EPEAT® registered configurations available 16
Energy star certified	ENERGY STAR® certified
Sustainable impact specifications	Ocean-bound plastic in speaker enclosure; 40% post-consumer recycled plastic; External power supply 90% efficiency; Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable 17.51,52,53,54



Footnotes

Messaging Footnotes

1 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. Optional, configurable feature that must be configured at purchase.

1 Pintel /Por* requires Windows 10 Por 64 bit or higher, a VPro supported processor, VPro enabled chipset, VPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of VPro* Essentials and Enterprise vary. See http://intel.com/v*

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1 pintel some remains an optional construction of the position of the product model, configuration, loaded applications, features, use, wireless functionality and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See MobileMark25 battery benchmark https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products/mobilemark26/18/https://papca.com/products

Requires the myHP application and Windows OS.

Noise Suppression is delivered automatically through Windows update or can be downloaded from https://support.hp.com/us-en/drivers. Requires Windows 10 or higher, compatible with internal PC speakers, microphone and analog headsets. The Al Noise Suppression setting can be configured through the

Application HP Audio Control.

9 WH; 6E is an optional feature that must be configured at purchase. WH; 6E requires a WH; 6E is an optional feature that must be configured at purchase. WH; 6E requires a WH; 6E

supported.

PHPS anothe is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mitz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPF. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to

9.39P. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible 4G IT and 3G HSPA facility in contraction according to the available in select platforms and select countries, where carrier supported.

1 Passed on US EPEAT registration according to the available in select platforms and select countries, where carrier supported.

1 Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft accountries, where carrier supported.

2 Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessary benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel® numbering, branching and/or norming is not a measurement of higher performance. Optional feature that must be configured at purchase.

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Specification Footnotes

¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply ower time for updates. See http://www.windows.com.
Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Performance varies by use, configuration, and other factors.

Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

Intel® Turbo Boost performance works depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.

In accordance with Microsoft's support policy Hy Debos not support the Windows 8 or Windows 7 drivers on http://www.support.hp.com.

Multicore is designed to improve performance of certain software products. Not all customers or software and software configurations. Intel's

Author 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. Intels numbering, branding and/or naming is not a measurement of higher performance.

For storage drives, GB = 1 billion bytes, TB = 1 trillion bytes, Actual formatted capacity is less. Up to 350B (for Windows) is reserved for system recovery software.

Branding and/or naming is not a measurement of higher performance.

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For storage drives, GB = 1 billion bytes, Actual formatted capacity is less. Up to 350B (for Windows) is reserved for system recovery software.

Branding and/or naming is not a measurement of higher with IEEE storage drives.

With IEEE countries and requires a Wi-FI GE is supported.

Wi-FI GE requires a Wi-FI GE router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-FI GE is bookwards compatible with prior 80211 specs. And available in countries where Wi-FI GE is supported.

Wi-FI GE requires a Wi-FI GE router, sold separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products and in all regions.

Actual brightness will be lower with HP Sure View or touch-screen.

Broth UMAS Discrete configurations support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately)-Max resolution = 2.5K @60Hz (DP1) & 2.5K @60Hz (DP2) & FHD (VGA), and support 3 independent displays when on the HP Thunderbolt Dock G2 (sold separately)-Max resol

18 HP Support Assistant- Requires Windows and Internet Access.

19 Microsoft Offices of Support Assistant- Requires windows and Internet Access.

20 Microsoft Accounts to a support of the Copilot key will lead to the Bing search engine. See http://dx.ams/WindowsAlFeatures.

21 HP Anyware software and licensing are covalidable through a 1-or 3-year subscription. Network access required. Renewal is required fare the subscription term. HP Anyware subscriptions are based on the number of concentrations used (pay for the number of host connections, not the software) with a minimum order quantity of 5. For a limited time, an HP Anyware Professional subscription. Network access required excess required screen and the invariant order quantity of 5. For a limited time, an HP Anyware Professional subscription less not included scores and and Table 70-72 are only supported and is available for purchase through an HP reseller or contact slose at phocony/Anyware. Zoentral Remote Boost Sender requires Windows 10 and 11.RH ELL'centOS [7 or 3], or UBUNTU 18.04 or 20.04 LIS operating systems. maccOS (1014 or newer) operating systems and Table 70-72 ere only supported on the receiver side. Zoentral Connect requires Windows 10 ord 11.RH Early and the Complete of the Complete o

29 HP Sure Click requires Windows 10 Pro or higher or Enterprises. See https://bit.hy/Pt.176A, Sursc/lick for complete details.
39 For systems configured with more than 3 GB of memory and a 22-bit operating system. All memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system. Memory modules support data transfer rates up to 4800 MT/s; actual data rate is determined by the systems configured processor. See processor specifications for supported memory data rate.
31 HP Sure Run is available on select HP PCs and requires Windows 10 and higher.

PS Sure Runs is available on select HP PCs and requires Windows 10 and higher.

PS secured-core PC requires on Intel® PPC or AMD Ryzen® Pro processor. Requires 8 B B or more system memory. Secured-core PC functionality can be enabled from the factory.

PS Secured-core PC requires on Intel® PPCs or AMD Ryzen® Pro processor. Requires 8 B B or more system memory. Secured-core PC function in landscape orientation.

PS Secured-core PC requires on Intel® PPCs or AMD Ryzen® Pro processor. Requires 8 B B or more system memory. Secured-core PC functionality can be enabled from the factory.

PS PS Series Is available on select HP PCs with Windows 10 Pro. Windows 10 Enterprise. Windows 11 Pro. or Windows 11 Enterprise QS.

PS PS Series Is available on select HP PCs with Windows 10 Pro. Windows 10 Pro. Windows 11 Pro. or Windows 11 Enterprise QS.

PS PS Series Is available on select HP PCs with Windows 10 Pro. or Win ** HP Connect for Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately, Network connection required. HP Sure Admin requires Winc 10 or newer, and HP BIOS.

**Features and software that require a NPU may require may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Performance varies by use, configuration, and other factors.

**He PS envices Scan is provided with Windows Update on select products and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applications. For full system requirements to risk daught be instructive, because the provided provided and the provides and policions. For full system requirements or to disable this feature, please swith a televity enables and provides and policions. For full system requirements or to disable this feature, please swith a feature, please swith and the provides and provides

60 Depending on the version available for your device and the setting you select. It is Buttery Health Manager (BHM) will use a proprietary set of algorithms to optimize battery health during the life of the battery. New Commercial Notebooks come equipped with BHM set to "Let HP Manage My Battery Health" as the default. This settine shall reduce change copacity over time to optimize bettery health and intigate factors that a concelerable default settines as a result of the intervention in reduction. During the life of the battery. New Commercial Notebooks come equipped with BHM set to "Let HP Manage My Battery Health" as the let t

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