ProductSheet

HP ZBook X G2i 16 inch Mobile Workstation PC (DP5M6LT)

Expert performance. Exceptional value.

Work with generative AI to explore design concepts, or complete 3D modeling and conceptual designs—all on the go. Built to give pros the power they need at an exceptional value[1], the HP ZBook X delivers advanced AI performance, scalable high-end graphics and memory, and all-day battery life.[2]



Power through professional workflows.
Seamlessly power through 3D modeling, video editing, and rendering. With an Intel® Core™ Ultra 3-series[3], advanced integrated or discrete graphics[4], and large memory configurations, ZBook X keeps even demanding workflows running smoothly.

Advanced workflows. On the move.
Power your ideas where work takes you. A portable design with advanced thermals keeps cool and quiet while a long-lasting battery[2] and reliable connectivity options[5] help keep you productive on the move.

Unleash Local AI Power on HP ZBook X
Save time for your best work with local AI on ZBook X, a Copilot+ PC[3] that powers through advanced workflows so you can focus on ideas —not obstacles.

Featuring

HP recommends Windows 11 Pro for business
Work anywhere without compromising on performance with Windows 11 and HP collaboration, security, and connectivity technology. Summarize and rewrite content, get relevant content recommendations, and stay organized with Microsoft Copilot. [8]

Intel® Core™ Ultra Processor
Unleash power-efficient performance with up to an Intel® Core™ Ultra 9 CPU. This CPU not only unlocks performance for the next era of AI-enhanced software, but the dedicated NPU greatly increases efficiency for productivity tasks. [3]

NVIDIA® Graphics
Power through projects with option for up to NVIDIA RTX™ 2000 Ada Generation Laptop GPU, certified for pro-apps.

HP Fast Charge
Ultra-fast recharge takes you from zero to 50% charge in just 30 minutes. [9]

Fast and efficient wireless LAN
The portability of your PC and the reliability of a fast connection determines where you can work. Get a fast and reliable connection in dense wireless environments with gigabit data rate Wi-Fi 7. [10]

Specifications

Operating System Software	Windows 11 Pro[1]
Processor Family	Intel® Core™ Ultra 9 processor
Processor Name	Intel® Core™ Ultra 9 386H (up to 4.9 GHz with Intel® Turbo Boost Technology, 18 MB L3 cache, 16 cores, 16 threads) [6,7]
Standard Memory Description 01	48 GB DDR5-5600 MT/s (2 x 24 GB)
Memory Slots	2 SODIMM
Hard Drive Description (01)	1 TB PCIe® Gen5 NVMe™ M.2 SSD
Graphics Card Segment 01	Integrated
GScardseg 01 Available Card 01	Intel® Graphics
Display Description (metric)	40.6 cm (16") diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC
Display Description	16" diagonal, WUXGA (1920 x 1200), IPS, anti-glare, 300 nits, 45% NTSC[24,35,37]
Audio Features	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
Product Dimensions W x D x H (metric)	35.9 x 25.1 x 2.49 cm *(Dimensions vary by configuration)*
Product Dimensions W x D x H (imperial)	14.15 x 9.88 x 0.98 in *(Dimensions vary by configuration)*
Weight (metric)	Starting at 1.9 kg *(Weight varies by configuration and components.)*
Weight (imperial)	Starting at 4.41 lb *(Weight varies by configuration and components.)*
Keyboard	Full-size, backlit keyboard with numeric keypad
Pointing Device	ClickPad Glass with multi-touch gesture support, taps enabled as default
Sensors	Ambient light sensor; Fingerprint sensor; Hall effect sensor; HP Sure Platform; HP Tamper Lock; Thermal sensor
Integrated Camera	5 MP IR AI camera
External I/O Ports	1 HDMI 2.1; 1 power connector; 1 3.5 mm audio combo jack; 1 USB Type-A 5Gbps signaling rate (charges with power-on); 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) [12,13,14]
External I/O Ports 02	1 SD 4.0 card reader; 1 nano security lock slot; 1 USB Type-A 5Gbps signaling rate (charges with power-on); 1 RJ-45 (1Gbps)
Network Interface	Intel® I219-LM GbE
Wireless Technologies	Intel® Wi-Fi 7 BE211 (2x2) and Bluetooth® 6.0 wireless card
Power Supply Required	150 W external AC power adapter[42]
Battery Type	HP Long Life 6 cell, 96 Wh Polymer
Battery Recharge Time	Supports battery HP fast charge: approximately 50% in 30 minutes[43]
Sustainability Specifications	Low halogen PCAs; Molded paper pulp cushion inside box is made of 100% recycled or certified sources; Outside box and corrugated cushions are 100% from certified or recycled sources and recyclable; At least 60% post-consumer recycled plastic; Bulk packaging available; External power supply 90% efficiency
UPC Number	(ABM) 826581347439; (AKH) 826581347422

Top Recommended Displays, Accessories and Services

Series 7 Pro	
HP Series 7 Pro 27 inch QHD Monitor - 727pq	8J4D8UT
HP Series 7 Pro 27 inch 4K Thunderbolt 4 Monitor - 727pk	8J9G2AA
HP Series 7 Pro 31.5 inch 4K Thunderbolt 4 Docking Monitor - 732xk	B7JM6AA
Backpacks	
HP Everyday 16-inch Laptop Backpack	A08KLUT
HP Travel Plus 30L 17-inch Laptop Backpack	A2CE0AA
Topload Bags	
HP Travel Plus 22L 16-inch Laptop Bag	A2CE1AA

Messaging Footnotes

[1] Compared to previous generations of HP ZBook X.

[2] Up to 19 hours battery life with (MM30) and 96whr battery. Based on preliminary engineering estimates. Battery life will vary depending on 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 MobileMark30 battery benchmark.

[3] 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 feature that must be configured at purchase. 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.

[4] Graphics and memory are optional features that must be configured at purchase. Visit https://www.nvidia.com/en-us/products/workstations/professional-laptops/compare/ to view GPU specifications and performance.

[5] Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows 11 OS, compatible processor, and separately purchased Wi-Fi 7 router to support backwards compatibility with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices. Wi-Fi® supporting gigabit data rate is achievable with Wi-Fi 7 (802.11BE) when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels. Available on select configurations.

[8] 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 11 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com. Microsoft Copilot requires Windows 11. Some features require an NPU. Timing and availability will be dependent on Microsoft and varies by market and device. Requires Microsoft account to log in. Where Copilot is not available, the Copilot key will lead to the Bing search engine. See http://aka.ms/WindowsAIFeatures.

[9] Recharges the battery up to 50% within 30 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 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

[10] Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows 11 OS, compatible processor, and separately purchased Wi-Fi 7 router to support backwards compatibility with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices. Wi-Fi® supporting gigabit data rate is achievable with Wi-Fi 7 (802.11BE) when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels.

Technical Specifications 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 over time for updates. See http://www.windows.com.

[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, branding and/or naming 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.

[12] Thunderbolt™ 4 and USB4™ maximum speed of 40Gbps will be divided between the different data workstreams.

[13] HDMI cable sold separately.

[14] SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.

[24] HD content required to view HD images.

[35] HP Sure View Reflect integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.

[37] HP Sure Sense requires Windows 10 and higher. See product specifications for availability. On units with WWAN shipping to China, HP Sure Sense is only available via Softpaq download.

[42] 150 W power adapter is only available with discrete graphic options.

[43] Recharges up to 50% within 30 minutes when the system is off or in standby mode when used with the power adapter provided with the notebook. Power adapter minimum of 65 watts required for battery capacities 56Whr or less. Power adapter minimum of 100 watts required for battery capacities greater than 56Whr and less than 83Whr. Power adapter minimum of 120 watts required for battery capacities greater than 83Whr and less than 100Whr. After charging has reached 90% capacity, charging speed will return to normal. Charging time may vary +/-10% due to System tolerance.

© Copyright 2026 HP Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Intel, Core, Optane, Celeron, Pentium, Iris, XMM, and Thunderbolt are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. AMD, Ryzen, Athlon, and Radeon are trademarks of Advanced Micro Devices, Inc. Bluetooth is a trademark owned by its proprietor and used by HP Inc. under license. NVIDIA and GeForce are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries. USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum. DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries. McAfee and McAfee LiveSafe are trademarks or registered trademarks of McAfee LLC in the United States and other countries. ENERGY STAR is a registered trademark of the U.S. Environmental Protection Agency. All other trademarks are the property of their respective owners.