

HP ZBook 8 G1i 16 inch Mobile Workstation PC

Specifications Table

Available Operating Systems	Windows 11 Pro ¹ Windows 11 Home ¹ Windows 11 Pro Education ¹ Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement) ¹ Windows 11 Home Single Language – HP recommends Windows 11 Pro for business; FreeDOS 3.0 ¹ FreeDOS 3.0 Ubuntu 24.04 LTS ⁵¹
Processor family ^{2,6}	Intel® Core™ Ultra 9 processor; Intel® Core™ Ultra 7 processor; Intel® Core™ Ultra 5 processor
Available Processors ^{2,3,4,6}	Intel® Core™ Ultra 7 265H (up to 2.5 GHz E-core Max Turbo frequency, up to 4.5 GHz E-core Max Turbo frequency, up to 5.3 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores, 2 LP E-cores and 8 E-cores, 16 threads) with Intel® Arc™ Graphics and Intel® AI Boost (13 NPU TOPS), supports Intel® vPro® Technology Intel® Core™ Ultra 7 265U (up to 2.4 GHz LP E-core Max Turbo frequency, up to 4.2 GHz E-core Max Turbo frequency, up to 5.3 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores, 2 LP E-cores and 8 E-cores, 14 threads) with Intel® Graphics and Intel® AI Boost (12 NPU TOPS), supports Intel® vPro® Technology Intel® Core™ Ultra 7 255H (up to 2.5 GHz LP E-core Max Turbo frequency, up to 4.4 GHz E-core Max Turbo frequency, up to 5.1 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores, 2 LP E-cores and 8 E-cores, 16 threads) with Intel® Arc™ Graphics and Intel® AI Boost (13 NPU TOPS) Intel® Core™ Ultra 7 255U (up to 2.4 GHz LP E-core Max Turbo frequency, up to 4.2 GHz E-core Max Turbo frequency, up to 5.2 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores, 2 LP E-cores and 8 E-cores, 14 threads) with Intel® Graphics and Intel® AI Boost (12 NPU TOPS) Intel® Core™ Ultra 5 235H (up to 2.5 GHz LP E-core Max Turbo frequency, up to 4.4 GHz E-core Max Turbo frequency, up to 5.0 GHz P-core Max Turbo frequency, 18 MB L3 cache, 4 P-cores, 2 LP E-cores and 8 E-cores, 14 threads) with Intel® Arc™ Graphics and Intel® AI Boost (13 NPU TOPS) Intel® Core™ Ultra 5 225U (up to 2.4 GHz LP E-core Max Turbo frequency, 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, 2 LP E-cores and 8 E-cores, 14 threads) with Intel® Graphics and Intel® AI Boost (12 NPU TOPS) Intel® Core™ Ultra 5 235U (up to 2.4 GHz LP E-core Max Turbo frequency, up to 4.1 GHz E-core Max Turbo frequency, up to 4.9 GHz P-core Max Turbo frequency, 12 MB L3 cache, 2 P-cores, 2 LP E-cores and 8 E-cores, 14 threads) with Intel® Arc™ Graphics and Intel® AI Boost (12 NPU TOPS), supports Intel® vPro® Technology Intel® Core™ Ultra 5 225H (up to 2.5 GHz LP E-core Max Turbo frequency, up to 4.2 GHz E-core Max Turbo frequency, up to 4.9 GHz P-core Max Turbo frequency, 18 MB L3 cache, 4 P-cores, 2 LP E-cores and 8 E-cores, 14 threads) with Intel® Arc™ Graphics and Intel® AI Boost (13 NPU TOPS) Intel® Core™ Ultra 9 285H (up to 2.5 GHz LP E-core Max Turbo frequency, up to 4.5 GHz E-core Max Turbo frequency, up to 5.4 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores, 2 LP E-cores and 8 E-cores, 16 threads) with Intel® Arc™ Graphics and Intel® AI Boost (13 NPU TOPS), supports Intel® vPro® Technology
Neural Processing Unit	Intel® AI Boost
Chipset	Intel® integrated SoC
Product colour	Meteor silver
Maximum memory	64 GB DDR5-5600 MT/s non-ECC ⁷ Transfer rates up to 5600 MT/s.
Memory slots	2 SODIMM; supports dual channel ⁸
Internal storage	512 GB up to 2 TB PCIe® Gen4 x4 NVMe™ M.2 2280 TLC SSD ¹¹ up to 512 GB PCIe® Gen4 x4 NVMe™ M.2 2280 TLC SED OPAL 2 SSD ¹¹ 256 GB up to 1 TB PCIe® Gen4 x4 NVMe™ M.2 2280 SSD ¹¹
Display size (diagonal)	16"
Display size (diagonal, metric)	40.6 cm (16")
Display	16" diagonal, WUXGA (1920 x 1200), UWVA, anti-glare, 300 nits, 62.5% sRGB 16" diagonal, WUXGA (1920 x 1200), touch, UWVA, anti-glare, 300 nits, 62.5% sRGB 16" diagonal, WUXGA (1920 x 1200), UWVA, anti-glare, Low Blue Light, 400 nits, 100% sRGB 16" diagonal, (2560 x 1600), 120 Hz, UWVA, anti-glare, Low Blue Light, 400 nits, 100% DCI-P3 16" diagonal, WQXGA (3840 x 2400), 120 Hz, anti-glare, 500 nits, 100% DCI-P3, HP DreamColor 16" diagonal, WUXGA (1920 x 1200), UWVA, anti-glare, Low Blue Light, 800 nits, sRGB 100%, HP Sure View integrated privacy screen 40.6 cm (16") diagonal, WUXGA (1920 x 1200), UWVA, anti-glare, 300 nits, 62.5% sRGB 40.6 cm (16") diagonal, WUXGA (1920 x 1200), touch, UWVA, anti-glare, 300 nits, 62.5% sRGB 40.6 cm (16") diagonal, WUXGA (1920 x 1200), UWVA, anti-glare, Low Blue Light, 400 nits, 100% sRGB 40.6 cm (16") diagonal, (2560 x 1600), 120 Hz, UWVA, anti-glare, Low Blue Light, 400 nits, 100% DCI-P3 40.6 cm (16") diagonal, WQXGA (3840 x 2400), 120 Hz, anti-glare, 500 nits, 100% DCI-P3, HP DreamColor 40.6 cm (16") diagonal, WUXGA (1920 x 1200), UWVA, anti-glare, Low Blue Light, 800 nits, sRGB 100%, HP Sure View integrated privacy screen
Available Graphics	Integrated: Intel® Graphics Intel® Arc™ 140T GPU (8 GB) Intel® Arc™ 130T GPU (8 GB) ^{20,21} Discrete: NVIDIA RTX™ 500 Ada Generation Laptop GPU (4 GB GDDR6 dedicated) ²³ (Discrete graphics options planned to be available at a later date and require factory configuration at the time of hardware purchase.)
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
Memory card device	1 smart card reader (select models)
Ports and connectors	Left side: 1 HDMI 2.1; 1 headphone/microphone combo; 2 Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) ^{12,13} ; Right side: 1 security lock slot; 1 RJ-45 Ethernet port; 1 USB Type-A 5Gbps signaling rate (powered); 1 USB Type-C® 20Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4) ; Optional Ports: 1 External Nano SIM slot for WWAN



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Keyboard	HP Premium Quiet Keyboard – spill-resistant, full-size, backlit keyboard with drain and DuraKeys
Mouse	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®; Intel® Wi-Fi 7 BE201 (2x2) and Bluetooth® 5.4 wireless card, vPro®; Intel® Wi-Fi 7 BE201 (2x2) and Bluetooth® 5.4 wireless card, non-vPro® ^{16,17} ; WWAN: HP 5G Sub-6 Cat 19; HP 4G LTE-Advanced Pro Cat 19 ^{15,18} ; LPWAN: Qualcomm® 9205 LTE Cat-M1 Modem ¹⁹
Camera	IR Camera (optional); 5 MP camera
Software	Buy Microsoft Office (sold separately); Copilot in Windows with Copilot key ^{54,61} ; HP Connection Optimizer ⁵⁹ ; HP Hotkey support; HP MAC Address Manager; HP Notifications; HP UEFI BIOS Certification level 2.7B; HP PC Hardware Diagnostics Windows; HP Privacy Settings; HP Services Scan ⁴⁰ ; HP Smart Support ⁵⁵ ; HP Support Assistant ⁵⁷ ; myHP ³⁶ ; HSA Fusion for Commercial; HSA Telemetry for Commercial; Poly Camera Pro; Poly Lens ⁵⁸ ; Edge Customization
Security management	HP Sure Admin; HP Sure Click ³⁴ ; HP Sure Recover; HP Sure Run ³¹ ; HP Sure Sense ⁴² ; HP Sure Start ³² ; HP Tamper Lock ³⁹ ; Secured-Core PC Enable ³³ ; Windows Hello Enhanced Sign-in Security (ESS) Enable ²⁵ ; Absolute Persistence Module ⁵⁰ ; HP BIOS Recovery ²⁹ ; BIOS Update via Network; HP BIOSphere ⁴⁴ ; HP DriveLock and Automatic DriveLock; HP Secure Erase ²² ; HP Wake on WLAN; Audio Permanent Disable
Security Software Licenses	HP Wolf Pro Security Edition ⁵⁶
Fingerprint reader	Fingerprint reader (select models)
Management features	HP Client Catalog (download) ⁹ ; HP Client Management Script Library (download) ¹⁰ ; HP Cloud Recovery ²⁶ ; HP Driver Packs (download) ³⁸ ; HP Image Assistant (download) ⁵² ; HP Manageability Integration Kit (download) ²⁷ ; HP Power Manager with Battery Health Manager (download) ⁵³ ; HP Connect for Microsoft Endpoint Manager ²⁸
Power	HP Smart 65 W External AC USB Type-C® power adapter; HP Smart 100 W External AC USB Type-C® power adapter; HP Smart 140 W External AC USB Type-C® power adapter ⁵
Battery type	HP Long Life 3-cell, 62 Wh Li-ion polymer; HP Long Life 8-cell, 77 Wh Li-ion polymer ⁴¹
Battery recharge time	Supports battery fast charge: approximately 50% in 30 minutes ⁴³
Dimensions	14.13 x 9.84 x .76 in; 35.9 x 25 x 1.92 cm; (Dimensions vary by configuration); 19.84 x 12.01 x 2.48 in; 504 x 305 x 63 mm (Package)
Weight	Starting at 3.79 lb; Starting at 1.72 kg; (Weight varies by configuration and components.)
Ecolabels	EPEAT® registered configurations available ⁴⁹
Energy star certified	ENERGY STAR® certified
Sustainable impact specifications	Low halogen; 40% post-consumer recycled plastic; Bulk packaging available; External power supply 90% efficiency; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable ^{45,46,47,48,50}

