

HP Z2 Tower G1i Workstation Desktop PC

Specifications Table

Available Operating Systems	Windows 11 Pro ¹ Windows 11 Home – HP recommends Windows 11 Pro for business ¹ Linux® Ready ³ Ubuntu 24.04 LTS ²
Processor family^{4,5}	Intel® Core™ Ultra 9 processor; Intel® Core™ Ultra 7 processor; Intel® Core™ Ultra 5 processor
Available Processors^{4,5,6}	Intel® Core™ Ultra 9 285K with Intel® Graphics (3.2 GHz E-core base frequency, 3.7 GHz P-core base frequency, up to 4.6 GHz E-core Max Turbo frequency, up to 5.5 GHz P-core Max Turbo frequency, 36 MB L3 cache, 8 P-cores and 16 E-cores, 24 threads) Intel® Core™ Ultra 9 285 with Intel® Graphics (1.9 GHz E-core base frequency, 2.5 GHz P-core base frequency, up to 4.6 GHz E-core Max Turbo frequency, up to 5.4 GHz P-core Max Turbo frequency, 36 MB L3 cache, 8 P-cores and 16 E-cores, 24 threads) Intel® Core™ Ultra 7 265K with Intel® Graphics (3.3 GHz E-core base frequency, 3.9 GHz P-core base frequency, up to 4.6 GHz E-core Max Turbo frequency, up to 5.4 GHz P-core Max Turbo frequency, 30 MB L3 cache, 8 P-cores and 12 E-cores, 20 threads) Intel® Core™ Ultra 7 265 with Intel® Graphics (1.8 GHz E-core base frequency, 2.4 GHz P-core base frequency, up to 4.6 GHz E-core Max Turbo frequency, up to 5.2 GHz P-core Max Turbo frequency, 30 MB L3 cache, 8 P-cores and 12 E-cores, 20 threads) Intel® Core™ Ultra 5 245K with Intel® Graphics (3.6 GHz E-core base frequency, 4.2 GHz P-core base frequency, up to 4.6 GHz E-core Max Turbo frequency, up to 5.2 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 14 threads) Intel® Core™ Ultra 5 245 with Intel® Graphics (3.0 GHz E-core base frequency, 3.5 GHz P-core base frequency, up to 4.5 GHz E-core Max Turbo frequency, up to 5.1 GHz P-core Max Turbo frequency, 24 MB L3 cache, 6 P-cores and 8 E-cores, 14 threads) Intel® Core™ Ultra 5 235 with Intel® Graphics (2.9 GHz E-core base frequency, 3.4 GHz P-core base frequency, up to 4.4 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, 14 threads) Intel® Core™ Ultra 5 225 with Intel® Graphics (2.7 GHz E-core base frequency, 3.3 GHz P-core base frequency, up to 4.4 GHz E-core Max Turbo frequency, up to 4.9 GHz P-core Max Turbo frequency, 20 MB L3 cache, 6 P-cores and 4 E-cores, 10 threads)
Chipset	Intel® W880
Product colour	Black
Form factor	Tower
Maximum memory	128 GB DDR5-5600 MT/s ECC; 192 GB DDR5-5600 MT/s non-ECC Transfer rates up to 5600 MT/s.
Memory slots	4 DRR5
Internal storage	512 GB up to 4 TB HP Z Turbo Drive PCIe® NVMe™ M.2 SSD ⁷ 512 GB up to 4 TB HP Z Turbo Drive PCIe® NVMe™ Opal 2 M.2 SSD ⁷ 1 TB up to 2 TB HP Z Turbo Drive PCIe® Gen5 NVMe™ M.2 SSD ⁷ 1 TB up to 2 TB HP Z Turbo Drive PCIe® Gen5 NVMe™ Opal 2 M.2 SSD ⁷ 512 GB up to 2 TB Citadel PCIe® NVMe™ SSD M.2 ⁷ 512 GB up to 2 TB PCIe® NVMe™ FIPS 140-2 SED SSD ⁷ 256 GB up to 1 TB PCIe® NVMe™ Value M.2 SSD ⁷ 1 TB up to 12 TB SATA Enterprise HDD ⁷
Available Graphics	Integrated: Intel® Graphics Discrete: NVIDIA RTX™ 4500 Ada Generation (24 GB GDDR6 dedicated) NVIDIA RTX™ 4000 Ada Generation (20 GB GDDR6 dedicated) NVIDIA RTX™ 2000 Ada Generation (16 GB GDDR6 dedicated) NVIDIA RTX™ 6000 Ada Generation (48 GB GDDR6 dedicated) NVIDIA RTX™ 5000 Ada Generation (32 GB GDDR6 dedicated) AMD Radeon™ Pro W7900 (48 GB GDDR6 dedicated) NVIDIA RTX™ A1000 (8 GB GDDR6 dedicated) NVIDIA RTX™ A400 (4 GB GDDR6 dedicated) (Other 3rd Party graphics cards available. Please inquire with your sales specialist or channel partner.)
Audio	Realtek ALC3205 codec, universal audio jack with CTIA and OMTP headset support
Expansion slots	2 M.2 2280 PCIe 4 x4; 1 M.2 2230 for WLAN; 1 M.2 2280 PCIe 5 x4; 1 PCIe 4 x1 mechanical (x4 electrical); 1 PCIe 4 x4 mechanical (x16 electrical); 1 PCIe 4 x4
Ports and connectors	Front: 2 USB Type-C® 20Gbps signaling rate; 4 USB Type-A 10Gbps signaling rate; 1 headphone/microphone combo ; Rear: 2 USB Type-A 10Gbps signaling rate; 2 DisplayPort™ 1.4; 1 RJ-45; 1 audio line-in/line-out; 3 USB Type-A 480Mbps signaling rate ; Optional Ports: Flex IO left side – choose one of the following options: 1 DisplayPort™ 2.1 UHBR20, 1 HDMI 2.1, 1 VGA, 1 Dual USB Type-A 5Gbps signaling rate, 1 Dual USB Type-C® 10Gbps signaling rate, 1 USB Type-C® 10Gbps signaling rate (USB Power Delivery, Alt Mode DisplayPort™1.4), 1 GbE LAN, 1 Thunderbolt™ 4, 2.5 GbE LAN, 10GbE LAN (10GBase-T), USB-based Serial port option, 1GbE Fiber LC NIC. Flex IO (fly cable) – choose one of the following options: 1 Dual USB Type-A 5Gbps signaling rate, USB-based Serial port option, 1GbE Fiber LC NIC.



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Keyboard	HP 655 Wireless Keyboard and mouse combo; HP 455 Programmable Wireless Keyboard; HP USB 320K Keyboard; HP USB Business Slim Wired SmartCard CCID Keyboard; HP 125 Black Wired Keyboard
Mouse	HP Wired Desktop 128 Laser Mouse; HP Wired 320M Mouse; HP 125 Wired Mouse
Communications	LAN: Intel® I350-T4 4-port GbE NIC; Intel® X550-T2 dual-port 10GbE NIC; Integrated Intel® I219-LM PCIe® GbE; Intel® I225-T1 PCIe® 2.5 GbE; NVIDIA® Mellanox ConnectX-6 DX Dual Port 10/25GbE SFP28 NIC; Allied Telesis AT-2911T/2-901 dual-port 1GbE NIC; WLAN: Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.3 wireless card; Intel® Wi-Fi 7 BE200 (2x2) and Bluetooth® 5.4 wireless card, non-vPro® ^{8,24} ;
Drive Bays	External: One slim ODD; One 5.25";
Software	HP Support Assistant ³⁴ ; HP UEFI BIOS Certification Level 2.7B; HP PC Hardware Diagnostics Windows; HP Manageability Integration Kit ¹⁰ ; HP Notifications; HP Desktop Support Utilities; HP Documentation; myHP ²⁵ ; WPS Office; Touchpoint Customizer for Commercial; HP Anyware ²⁸
Security management	HP Secure Erase ¹¹ ; HP Sure Click ¹² ; HP BIOSphere Gen6 ¹³ ; HP Sure Admin ¹⁴ ; Hood Sensor Optional Kit; HP Client Security Manager Gen6 ¹⁵ ; HP Sure Start ¹⁶ ; HP Sure Recover ¹⁷ ; HP Sure Sense ¹⁸ ; HP Sure Run ²² ; HP Tamper Lock ²⁷
Security Software Licenses	HP Wolf Pro Security Edition ⁵⁶
Management features	HP Client Catalog (download) ³⁰ ; HP Cloud Recovery ²⁶ ; HP Driver Packs ³¹ ; HP Client Management Script Library (download) ³² ; HP System Software Manager (download); HP BIOS Configuration Utility (download); HP Image Assistant (download) ³³
Power	500 W internal power adapter, up to 92% efficiency, active PFC; 1200 W internal power adapter, up to 92% efficiency, active PFC; 700 W internal power adapter, up to 92% efficiency, active PFC
Dimensions	6.9 x 16.7 x 15.2 in; 17.5 x 42.6 x 38.8 cm; (Standard desktop orientation.); 23.2 x 19.3 x 11.6 in; 59 x 49 x 29.5 cm (Package)
Weight	Starting at 19 lb; Starting at 8.6 kg; Starting at 27.3 lb; Starting at 12.5 kg (Package) ; (Exact weight depends on configuration.)
Ecolabels	CECP; TCO Certified configurations available; SEPA; Taiwan Green Mark; Japan PC Green Label; FEMP; EPEAT® Gold with Climate+; Korea MEPS ^{23,35}
Sustainable impact specifications	Low halogen; Bulk packaging available; 10% ITE-derived closed loop plastic; 25% ocean-bound plastic in system fans; Product Carbon Footprint; Contains at least 60% post-consumer recycled plastic; System has a QR code enabled experience where the user has access to a product portal – beginning December 2025, this is complete with product feature highlights, sustainability information, getting started guides, and direct setup and support options; New Energy Consumption dashboard available to customers providing timely carbon usage including recommended actions users can take to decrease carbon footprint ^{19,20,21,29}

