Powers large workflows. Fits a tiny space.



Tackle workflows you never thought before possible on such a tiny PC. The HP Z2 Mini easily fits on your desk or behind your monitor so you can tackle 3D projects without losing valuable office space. All while feeling protected From the BIOS to the browser, above, in, and below the OS with HP Wolf Security Suite.

Unprecedented Z mini power²

Tackle workflows you never thought possible on such a sleek, tiny PC. Now, get standard low-profile NVIDIA® RTX graphics in a Z2 Mini, combined with Intel® Core™ processors, including K-Series, for seamless design, rendering and simulation.

Fits anywhere

Create your ideal workspace whether you're working in an office or your home. With a versatile, contemporary design, proudly set it on your desk, mount it behind your monitor, attach it under your desk or rackmount it in your datacenter³—even take it to and from the office.

Engineered to evolve

The Z2 Mini is ready to evolve with your workflow. A new slide-out design provides tool-free interior access to standard-sized components so you can easily swap graphics and memory. Easily connect to essential peripherals with plenty of built-in I/O.

Industry leading security. Reliability you can trust

Get peace of mind with a PC that's built to endure. The Z2 Mini undergoes 360K hours of rigorous testing, military-standard testing⁵ and is certified for pro apps. And with HP Wolf Security for Business⁴, it's protected below, in and above the OS.









Operating Systems

Support your unique user needs with a choice of Windows 11 Pro, WSL2 or Linux® operating systems.⁶

Intel® Core™ Processors

Bring your ideas to life quickly and run multiple apps simultaneously with the latest Intel® Core™ vPro®⁷ processors. For added performance, choose the K-Series.⁸

Professional Graphics

Design, render and simulate seamlessly with up to NVIDIA RTX 4000 SFF Ada graphics with PCIe G5 high speed bandwidth.⁹

Memory

Experience fast performance when working on complex design tasks with 2 DIMMS for up to 96GB DDR5 memory at an increased memory speed of up to 5600MHz.¹⁰

Storage

Get up to 8TB with dual M.2 storage slots and RAID data storage capabilites for added performance or reliability.¹¹

Flexible I/O Modules

Configure to the needs of today with flexibility for the future with up to two flexible I/O ports and 13 I/O options to fill them with, including DP 1.4, VGA, HDMI, Dual USB Type-A, USB Type-C® with Alt-DP or 2nd Serial and more.¹²

Multi-Display Support

See all your windows in perfect detail with support for up to 8 displays at 4K resolution¹³

WiFi Connectivity

Wi-Fi 7 offers up to 2.5 faster file transfer speeds than Wi-Fi 6E.14

ISV Certified

Work with confidence knowing your desktop is certified with leading software applications to ensure peak performance.¹⁵

HP Wolf Security

HP Wolf Security for Business¹⁶ 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.

Tool-less Access

Evolve your work. Evolve your rig. With a tool-less sliding access cover, you can easily get into the the interior, and customize your Z to fit your needs.

Network Connectivity

Connect and collaborate quickly with 10Gb Ethernet interface.



Specifications Table

Idealing 2016 (1):553 Processor family Sing Generation Intell Core ⁺⁺ if processor, 13h Generation Intells Core ⁺⁺ if processor if processor, 13h Generation Intells Core ⁺⁺ if pr		
Processor family processor, 12th Generation Intel® Core [™] (J processor, 12th Generation Intel® Core [™] (B processor, 12th Generation processor, intel® Core [™] (B processor), 2th GHE P-core base frequency, up to 3.8 GHE P-core base frequency, up to 3.3 GHE P-core base frequency, up to 5.3 GHE P-core base frequency, up to 3.1 GHE P-core base frequency, up to 5.3 GHE P-core base frequency, up to 3.1 GHE P-core base frequency, up to 5.3 GHE P-core base frequency, 2.1 Hz P-core base frequency, up to 5.3 GHE P-core base frequency, 2.7 GHE P-core base frequency, up to 5.3 GHE P-core base frequency, up to 5.3 GHE P-core base frequency, 2.7 GHE P-core base frequency, 2.0 GHE P-core base frequency, 2.7 GHE P-core base frequency, 2.0 GHE P-core bas	Available Operating Systems	Windows 11 Home – HP recommends Windows 11 Pro for business ¹ Windows 10 Pro (available through downgrade rights from Windows 11 Pro) ^{1,3} Linux® Ready ²⁸
GFLP P-core Max Turbo frequency, up 51. GFLP with intel® UTCD Boost Technology, 25 MBL 3 carbs, B P-cores, 24 freeads) Intel® Core [®] FL3200 with intel® UFD carpits (16. GFLE E-core base frequency, up 5, 26 HEP -core Max Turbo frequency, up 64.56 HEP -core Max Turbo frequency, up 64.66 HEP -core Max Turbo frequency, up 65.00 (2.0 GFLE E-core Max Turbo frequency, up 65.3 GFLE P-core Max Turbo frequency, up 65.2 GFLE P-core Max Turbo frequency, up 65.3 GFLE P-core Max Turbo frequency, up 65.3 GFLE P-core Max Turbo frequency, up 65.2 GFLE P-core Max Turbo frequency, up 65.3 GFLE P-core	Processor family	processor; 12th Generation Intel® Core™ i7 processor; 12th Generation Intel® Core™ i5 processor; 12th Generation Intel® Core™ i3 processor; 1ntel® Core™ i5 14th
64 GB DDR5-4800 MT/s ECC; 64 GB DDR5-4800 MT/s non-ECC; 64 GB DDR5-5600 MT/s ECC; 64 GB DDR5-5600 MT/s non-ECC; 96 GB DDR5-5600 MT/s ECC; 96 GB DDR5 Signaling rate; 100 HT/s HT/s HT/s HT/s HT/s	Available Processors	GHz P-core Max Turbo frequency, up to 5.1 GHz with Intel® Turbo Boost Technology, 30 MB L3 cache, 8 P-cores and 8 E-cores, 24 threads) Intel® Core™ i7-12700 with Intel® UHD Graphics (1.6 GHz E-core base frequency, 2.1 GHz P-core base frequency, up to 3.6 GHz E-core Max Turbo frequency, up to 4.8 GHz P-core Max Turbo frequency, up to 4.9 GHz with Intel® Turbo Boost Technology, 25 MB L3 cache, 8 P-cores and 4 E-cores, 20 threads) Intel® Core™ i5-13400 (1.8 GHz E-core base frequency, 2.5 GHz P-core base frequency, up to 3.3 GHz E-core Max Turbo frequency, up to 4.6 GHz P-core Max Turbo frequency, 20 MB L3 cache, 6 P-cores and 4 E-cores, 16 threads) Intel® Core™ i5-13600 (2.0 GHz E-core base frequency, 2.7 GHz P-core base frequency, up to 3.7 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, 20 threads) Intel® Core™ i5-13600 (2.6 GHz E-core base frequency, 3.5 GHz P-core base frequency, up to 3.9 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, 20 threads) Intel® Core™ i5-13700K (2.5 GHz E-core base frequency, 3.4 GHz P-core base frequency, up to 4.2 GHz E-core Max Turbo frequency, up to 5.3 GHz P-core Max Turbo frequency, 30 MB L3 cache, 8 P-cores and 8 E-cores, 32 threads) Intel® Core™ i7-13700K (2.5 GHz E-core base frequency, 3.0 GHz P-core base frequency, up to 4.3 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, 32 threads) Intel® Core™ i7-14700 with Intel UHD Graphics (1.5 GHz E-core base frequency, 2.1 GHz P-core base frequency, up to 5.4 GHz P-core Max Turbo frequency, 36 MB L3 cache, 8 P-cores and 16 E-cores, 32 threads) Intel® Core™ i5-14600 with Intel UHD Graphics (1.5 GHz E-core base frequency, 2.1 GHz P-core base frequency, up to 5.4 GHz E-core Max Turbo frequency, 34 MB L3 cache, 6 P-cores and 8 E-cores, 32 threads) Intel® Core™ i5-14600 with Intel UHD Graphics (1.6 GHz E-core base frequency, 2.1 GHz P-cor
Maximum memory DDR5-5600 MT/s non-ECC ¹⁸ Transfer rates up to 5600 MT/s. Memory slots 2 SODIMM Internal storage 512 GB up to 4 TB HP Z Turbo Drive PCIe® NVMe™ M.2 SSD ⁸ 256 GB up to 1 TB PCIe® NVMe™ Value M.2 SSD Internal storage 512 GB up to 4 TB HP Z Turbo Drive PCIe® NVMe™ Opal 2 M.2 SSD ⁸ 256 GB up to 1 TB PCIe® NVMe™ Value M.2 SSD Integrated: Integrated: Intel® UHD Graphics 770 Discrete: NVIDIA® T1000 (4 GB GDDR6 dedicated) NVIDIA® T1000 8 GB NVIDIA® T1000 4 GB GDDR6 dedicated) NVIDIA® T1000 4 GB GDDR6 dedicated) NVIDIA® T1000 4 GB GDDR6 dedicated) NVIDIA® T1000 4 GB GDDR6 dedicated) NVIDIA RTX™ 2000 AG Generation (16 GB GDDR6 dedicated) ⁷ Audio Reatlek ALC3205-VA2-CG, 2.0W internal mono speaker Expansion slots 2 M.2 2280 PCIe 4 xi; 1 M.2 2230 for WLAN; 1 PCIe® 4 x8 (PCIe Low Profile connector) Side: 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 10Gbps signaling rate 1; Optional Ports: Fiex IO left side – choses one of the following options: 1 DisplayPort™ 1.4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-C® 20Gbps signaling rate ; Rear: 1R3-45; 2 DisplayPort™ 1.4; 3 SuperSpeed USB Type-A 10Gbps signaling rate ¹⁴ ; Optional Ports: Fiex IO left side – choses one of the following options: 1 DisplayPort™ 1.4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-C® 10Gbps signaling rate; USB Type-C® 10Gbps signaling rate; 0 USB Type-C® 10Gbps signaling rate;	Form factor	Mini
Internal storage 512 GB up to 4 TB HP Z Turbo Drive PCIe® NVMe™ M.2 SSD ⁸ Internal storage 512 GB up to 4 TB HP Z Turbo Drive PCIe® NVMe™ Opal 2 M.2 SSD ⁸ Z56 GB up to 1 TB PCIe® NVMe™ Value M.2 SSD Integrated: Inte® UHD Graphics Inte@ UHD Graphics 770 Discrete: NVIDIA® T400 (4 GB GDDR6 dedicated) NVIDIA® T1000 (4 GB GDDR6 dedicated) NVIDIA® T1000 (4 GB GDDR6 dedicated) NVIDIA® T1000 4 GB NVIDIA® T1000 4 GB NVIDIA® T1000 4 GB NVIDIA® T1000 4 GB NVIDIA® T1000 3 GB NVIDIA® T1000 4 GB NVIDIA® T1000 3 GB NVIDIA® T1000 3 GB NVIDIA® T1000 3 GB NVIDIA® T1000 4 GB NVIDIA RTX™ 2000 Ada Generation (16 GB GDDR6 dedicated) NVIDIA RTX™ 2000 Ada Generation (20 GB GDDR6 dedicated) NVIDIA RTX™ 2000 SFF Ada Generation (20 GB GDDR6 dedicated) NVIDIA RTX™ 4000 SFF Ada Generation (20 GB GDDR6 dedicated) NVIDIA RTX™ 4000 SFF Ada Generation (20 GB GDDR6 dedicated) Side: 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 2 SuperSpeed USB Type-C® 20Gbps signaling rate ; Rear: 1 R1-45; 2 DisplayPort™ 1, 1 PCIe® 4 x8 (PCIe Low Profile connector) Side: 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 10Gbps signaling rate ^{4,1} Optional Ports: Flex IO left side – cho	Maximum memory	DDR5-5600 MT/s non-ECC ¹⁸
Internal storage 512 GB up to 4 TB HP Z Turbo Drive PCIe® NVMe™ Opal 2 M.2 SSD ⁸ 256 GB up to 1 TB PCIe® NVMe™ Value M.2 SSD Integrated: Integrated: Intel® UHD Graphics 770 Discrete: NVIDIA® T400 (4 GB GDDR6 dedicated) NVIDIA® T1000 8 GB NVIDIA® T1000 4 GB GDDR6 dedicated) NVIDIA® T1000 4 GB GDDR6 dedicated) NVIDIA® T1000 4 GB NVIDIA RTX™ 4000 12GB NVIDIA RTX™ 4000 SFF Ada Generation (16 GB GDDR6 dedicated) NVIDIA RTX™ 4000 SFF Ada Generation (20 GB GDDR6 dedicated)? Audio Realtek ALC3205-VA2-CG, 2.0W internal mono speaker Expansion slots 2 M.2 2280 PCIe 4 x4; 1 M.2 2230 for WLAN; 1 PCIe® 4 x8 (PCIe Low Profile connector) Side: 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 10Gbps signaling rate ¹⁴ ; Optional Ports: Flex IO left side – choose one of the following options: 1 DisplayPort™ 1.4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-A 5Gbps signaling rate; Rear: 1 RJ-45; 2 DisplayPort™ 1.4; 3 SuperSpeed USB Type-C® 10Gbps signaling rate ⁴ ; Optional Ports: Flex IO left side – choose one of the following options: 1 DisplayPor	Memory slots	2 SODIMM
Available Graphics Intel® UHD Graphics 770 Discrete: NVIDIA® T400 (4 GB GDDR6 dedicated) NVIDIA® T1000 8 GB NVIDIA® T1000 8 GB NVIDIA® TX000 12GB NVIDIA RTX™ 2000 Ada Generation (16 GB GDDR6 dedicated) NVIDIA RTX™ 4000 SFF Ada Generation (20 GB GDDR6 dedicated) NVIDIA RTX™ 4000 SFF Ada Generation (20 GB GDDR6 dedicated) Audio Realtek ALC3205-VA2-CG, 2.0W internal mono speaker Expansion slots 2 M.2 2280 PCle 4 x4; 1 M.2 2230 for WLAN; 1 PCle® 4 x8 (PCle Low Profile connector) Side: 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 2 SuperSpeed USB Type-C® 20Gbps signaling rate ; Rear: 1 RJ-45; 2 DisplayPort™ 1.4; 3 SuperSpeed USB Type-A 10Gbps signaling rate ¹⁴ ; Optional Ports: Flex IO left side – choose one of the following options: 1 DisplayPort™ 1.4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-C® 20Gbps signaling rate (1 Charging); 2 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, Att Mode DisplayPort™), 1 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate) with SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, Att Mode DisplayPort™), 1 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate) with SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN, 10GbE LAN, 10GB LaN, 1 Thunderbolt™ 3 (40Gbps signaling rate) with	Internal storage	512 GB up to 4 TB HP Z Turbo Drive PCIe® NVMe™ Opal 2 M.2 SSD ⁸
Expansion slots 2 M.2 2280 PCIe 4 x4; 1 M.2 2230 for WLAN; 1 PCIe® 4 x8 (PCIe Low Profile connector) Side: 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 2 SuperSpeed USB Type-C® 20Gbps signaling rate ; Rear: 1 RJ-45; 2 DisplayPort™ 1.4; 3 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 2 SuperSpeed USB Type-C® 20Gbps signaling rate ; Optional Ports: Flex IO left side – choose one of the following options: 1 DisplayPort™ 1.4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-A 5Gbps signaling rate) with SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, Alt Mode DisplayPort™), 1 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate) with SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN. 10CbE LAN(10GBase-T), USB-based Serial port option, 1GbE Fiber LC NIC; Flex IO left side – choose one of the following options: 1 DisplayPort™ 1.4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-C® 10Gbps signaling rate, Signaling rate (USB Power Delivery, Alt Mode DisplayPort™ 1, 4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN. 10CbE LAN(10GBase-T), USB-based Serial port option, 1GbE Fiber LC NIC; Flex IO left side – choose one of the following options: 1 DisplayPort™ 1, 4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-C® 10Gbps signaling rate, Signaling rate (USB Power Delivery, Alt Mode DisplayPort™), 1 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate) with SuperSpeed USB Type-C® 10Gbps signaling rate,	Available Graphics	Intel® UHD Graphics 770 Discrete: NVIDIA® T400 (4 GB GDDR6 dedicated) NVIDIA® T1000 (4 GB GDDR6 dedicated) NVIDIA® T1000 8 GB NVIDIA® TXT™ A2000 12GB NVIDIA® T600 4 GB NVIDIA® T600 4 GB
Side: 1 headphone/microphone combo; 1 SuperSpeed USB Type-A 10Gbps signaling rate (1 charging); 2 SuperSpeed USB Type-C® 20Gbps signaling rate ; Rear: 1 RJ-45; 2 DisplayPort™ 1.4; 3 SuperSpeed USB Type-A 10Gbps signaling rate ¹⁴ ; Optional Ports: Flex IO left side – choose one of the following options: 1 DisplayPort™ 1.4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-A 5Gbps signaling rate) with SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, Alt Mode DisplayPort™), 1 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate) with SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN. 10GbE LAN(10GBase-T), USB-based Serial port option, 1GbE Fiber LC NIC; Flex IO left side – choose one of the following options: 1 DisplayPort™ 1.4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-A 5Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, Alt Mode DisplayPort™), 1 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN. 10GbE LAN(10GBase-T), USB-based Serial port option, 1GbE Fiber LC NIC; Flex IO left side – choose one of the following options: 1 DisplayPort™ 1.4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-C® 10Gbps signaling rate, 0 to Stape-C® 10Gbps signaling rate, 2.5 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN, 1 GbE LAN(10GBase-T), USB-based Serial port option, 1GbE Fiber LC NIC; Flex IO left side – choose one of the following options: 1 DisplayPort™ 1.4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-C® 10Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN, 1 Thunderbolt™ 3 (40Gbps s	Audio	Realtek ALC3205-VA2-CG, 2.0W internal mono speaker
Ports and connectors Rear: 1 RJ-45; 2 DisplayPort [™] 1.4; 3 SuperSpeed USB Type-A 10Gbps signaling rate ¹⁴ ; Optional Ports: Flex IO left side – choose one of the following options: 1 DisplayPort [™] 1.4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-A 5Gbps signaling rate; 1 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, Alt Mode DisplayPort [™]), 1 GBE LAN, 1 Thunderbolt [™] 3 (40Gbps signaling rate) with SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GBE LAN, 10GBE LAN(10GBase-T), USB-based Serial port option, 1GbE Fiber LC NIC; Flex IO left side – choose one of the following options: 1 DisplayPort [™] 1.4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-C® 10Gbps signaling rate; SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GBE LAN, 10GBE LAN(10GBase-T), USB-based Serial port option, 1GbE Fiber LC NIC; Flex IO left side – choose one of the following options: 1 DisplayPort [™]), 1 GBE LAN, 1 Thunderbolt [™] 3 (40Gbps signaling rate; SuperSpeed USB Type-C® 10Gbps signaling rate; SuperSp	Expansion slots	2 M.2 2280 PCIe 4 x4; 1 M.2 2230 for WLAN; 1 PCIe® 4 x8 (PCIe Low Profile connector)
	Ports and connectors	Rear: 1 RJ-45; 2 DisplayPort™ 1.4; 3 SuperSpeed USB Type-A 10Gbps signaling rate ¹⁴ ; Optional Ports: Flex IO left side – choose one of the following options: 1 DisplayPort™ 1.4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-A 5Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, Alt Mode DisplayPort™), 1 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate) with SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN, 10GbE LAN(10GBase-T), USB-based Serial port option, 1GbE Fiber LC NIC; Flex IO left side – choose one of the following options: 1 DisplayPort™ 1.4 HBR3, 1 HDMI 2.0b, 1 VGA, 1 Dual SuperSpeed USB Type-A 5Gbps signaling rate, 0 USB Type-C® 10Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate, 2.5 GbE LAN, 10GbE LAN, 10GbE LAN(2005) State 2.5 GbE LAN, 10GbE LAN, 1 Thunderbolt™ 3 (2005) State 2.5 GbE LAN, 10GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps signaling rate, 2.5 GbE LAN, 1 Thunderbolt™ 3 (40Gbps signaling rate, 1 SuperSpeed USB Type-C® 10Gbps si

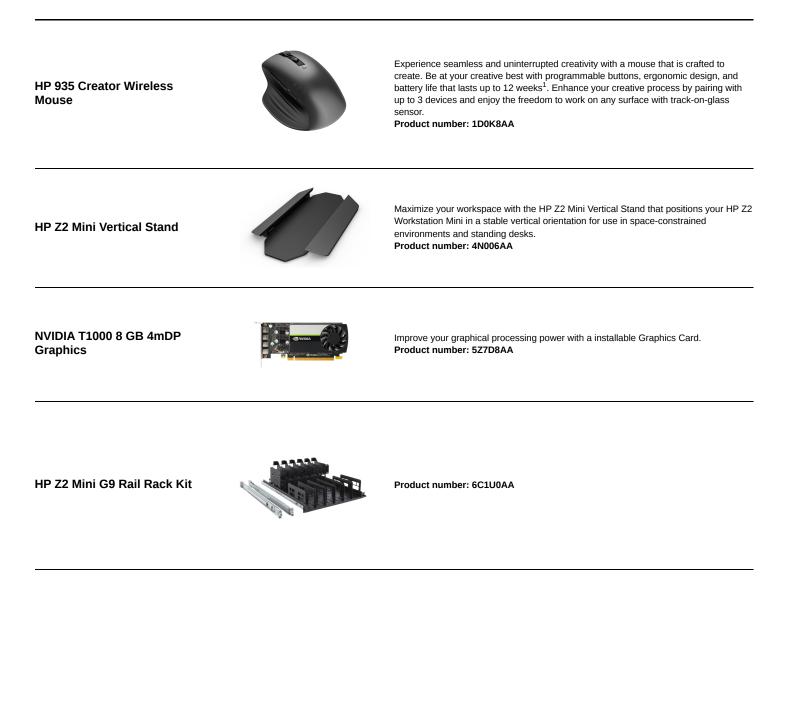


Specifications Table

Keyboard	HP Wired Desktop 320K keyboard; HP Wired Desktop 320MK Mouse and Keyboard; HP 125 Wired Keyboard; HP 655 Wireless Keyboard and mouse combo; HP 975 Wireless Keyboard; HP 455 Programmable Wireless Keyboard ⁹
Mouse	HP Wired Desktop 320M mouse; HP wired desktop 128 laser mouse; HP 125 Wired Mouse; HP Creator 935 Black Wireless Mouse ⁹
Communications	LAN: Integrated Intel® I219-LM PCIe® GbE; 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®;
Software	HP PC Hardware Diagnostics UEFI HP Support Assistant HP PC Hardware Diagnostics Windows HP Privacy Settings HP Desktop Support Utilities HP Image Assistant HP Manageability Integration Kit HP Notifications Performance Advisor 3.0 HP Data Science Stack myHP ^{11,16,19,27} HP Easy Clean; HP Documentation; WPS Office; Touchpoint Customizer for Commercial; HP UWP Pack
Security management	HP Secure Erase; HP Sure Click; HP BIOSphere Gen6; HP Sure Admin; Hood Sensor Optional Kit; HP Client Security Manager Gen6; HP Sure Start Gen7; HP Sure Recover Gen4; HP Tamper Lock; HP Sure Sense Gen2; HP Sure Run Gen5 ^{4,10,12,13,15,20,21,22,23}
Security Software Licenses	HP Wolf Pro Security Edition ⁵⁶
Management features	HP BIOS Configuration Utility (download); High performance Mode; Quite Mode; Rack Mode; HP Cloud Recovery; HP Client Catalog (download); HP Image Assistant (download); HP Client Management Script Library (download); HP System Software Manager (download); HP Driver Packs
Power	180 W external power adapter, up to 89% average efficiency, active PFC; 280 W external power adapter, up to 89% average efficiency, active PFC
Dimensions	21.1 x 21.8 x 6.9 cm; (Standard desktop orientation.); 49.9 x 17.0 x 29.8 cm (Package)
Weight	Starting at 2.4 kg; Starting at 4.8 kg (Package) ; (Exact weight depends on configuration.)
Ecolabels	IT ECO Declaration; TCO Certified configurations available; EPEAT® Gold registered in the U.S. ¹⁷
Energy star certified	ENERGY STAR® certified
Sustainable impact specifications	80 Plus® Gold power supplies available; 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; 55% post-consumer recycled plastic; 15% ITE-derived closed loop plastic; Ocean-bound plastic in speaker enclosure and system fan; Low halogen PCAs; Product Carbon Footprint ^{29,30,31,32,33}
Compatible displays	HP Z34C, Z40C, Z27Q G3, Z27K, and Z27XS G3 4k. All HP Z Displays and HP DreamColor Displays are supported. For more information see http://www.hp.com/go/zdisplays (Supports 8 displays, driving 8 displays requires the use of integrated and discrete graphics ports. Each source can drive a total of 4 displays. At least one of the integrated graphics ports need to drive two displays in a daisy chain configuration.)



Accessories and services (not included)





Messaging Footnotes

¹ 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 ar software configurations. Intel[®] sumbering is not a measurement of higher performance.
² Power based on HP Z mini max processor, graphics, and memory.

³ Mounting hardware sold seperately.
 ⁴ HP Wolf Security for Business requires Windows 10 or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features and OS requirement.
 ⁵ MIL STD testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test

results are not a guarantee of future performance under these test conditions. Accidental Damage or damage under these test conditions

requires an optional HP Accidental Damage Protection Care Pack. ⁶ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purch ^o 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 Pro is automatically updated, which is alwayse snabled. ISP tees may apply and additional requirements may apply over time for updates. See http://www.windows.com ⁷ For full intel® vPro® functionality. Windows 11 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some fully control advisor and ender the support of a party software in order to run. See http://intel.com/vpro

Multicore is designed to improve performance of certain software products. Not all customers or software applications will neces 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. 9 Sold separately or as an optional feature

10 Gen over gen

¹¹ For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 35GB of disk is reserved for

rstem recovery software. Optional features that must be configured at purchase or are sold separately.

Support for up to 8 displays requires Intel® HD graphics and a discrete graphics card.

⁴ Based on HP internal testing using Chariot benchmark. Data rates subject to environment, network conditions, and other factors. ⁵ Third party software sold separately. ¹⁶ HP Wolf Security for Business requires Windows 10 or higher, includes various HP security features and is available on HP Pro. Elite,

RPOS and Workstation products. See product details for included security features and OS requirement.

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 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. ² Autilicore 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.

³ This system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing

transtance version and instance one version and instance version. For india value of the provide the provided initial and instance of operating systems to avoid loss of your data. ⁴ HP Client Security Manager Gen6 requires Windows and is available on the select HP PCs. ⁵ For full Intely vers⁻¹ functionality, Windows 11 Pro 64 bit, a version processor, VPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See http://intel.com/vpro

Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See

http://www.intel.com/technology/turboboost for more information

NVIDIA® T400 (2 GB GDDR6 dedicated) may go End of Life in late 2022 ⁸ For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36GB of system disk (for Windows 11) is reserved for system recovery software.

II) Is reserved to system recovery solution:
P(expload and Mouse are optional or add on features.
P(expload and Mouse are optional or add on features.
P(expload and Mouse are optional or add on features.
P(expload and Assistant requires Windows and Internet access.
P(expload and Assistant requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete detal
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¹³ HP Sure Start Gen 6 is available on select HP PCs and workstations. See product specifications for availability

¹³ HP Sure Start Gen 6 is available on select HP PCs and workstations. See product specifications for availability.
¹³ DisplayPort 1.4 in Performance model with discrete graphics.
¹⁵ HP Sure Run Gen 3 is available on select Windows 11 based HP Pro, Elite and Workstation PCs with select Intel® or AMD proce:
¹⁶ HP Performance Advisor Software - HP Performance Advisor is ready to help you get the most out of your HP Workstation from con-one—and every day after. Learn more or download at: http://hp.com/PerformanceAdvisor
¹⁷ Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Visit www.epeat.net for more information.
¹⁸ Non-ECC memory is supported on all processors. ECC is only enabled on the following: Intel® Core™ i6-12000 kintel® Core™ i6-122000 kintel® Core™ i6-12200 kintel® Core™ i6-1200 kintel® Core

¹⁹ HP ZCentral Remote Boost does not come preinstalled on Z Workstations but can be downloaded and run on all Z desktop and ¹² HP 2 Cleminal Remote Boost does not come preimstalieu on 2 workstauons out can be dowinidated and runn on all 2 desktop and laptops without license purchase. With non-2 sender devices, purchase of perpetual individual license or perpetual floating license per simultaneously executing versions and purchase of 2Central Remote Boost Software Support is required. RGS requires Windows, RHEL (7 or 8), UBUNTU 18.04 LTS, or HP ThinPro 7operating systems. MacOS (10.13 or newer) operating system is only supported on the receiver side. Requires network access. The software is available for download at hp.com/2CentralRemoteBoost. ³⁵ HP Sure Recover Gen4 is available on select HP PCs and requires Windows 10 and an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. Network based recovery using Wi-Fi is only available on PCs with Intel Wi-Fi Module.

Secure Erase - For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear sanitation method. HP Secure Erase does not support platforms with Intel® Optane

²² HP Sure Sense requires Windows 11 Pro or Enterprise and supports Microsoft Internet Explorer, Google Chrome™, and Chromium™ Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or

Supported attachments include microson office (word, EXER, PowerPoint) and POP lines in read only mode, when microson office ic Adobe Acrobitat are installed.
²³ HP Sure Admin requires Windows 11, HP BIOS, HP Manageability Integration Kit from http://www.hp.com/go/clientmanagement a HP Sure Admin Iccal Access Authenticator smartphone app from the Adroid of Apple store.
²⁴ Actual flex I/O choice depends on configuration selected. About Thunderbolt compatibility, please refer to the FAQ of Thunderbolt

community. https://www.thunderbolttechnology.net/tech/faq ²⁵ Not all features are available in all editions or versions of Ubuntu. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS to take full advantage of Ubuntu functionality. Ubuntu may be automatically updated. ISP fees may

apply and additional requirements may apply over time for updates. ²⁶ Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. ⁴⁰ Wi-H 6E requires a Wi-Fi 6E router, sold separately, to function in the GCH2 band. Availability of public wirdless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 7 not available with 12th Gen Intel ADL processors; Wi-Fi 7 (802.11BE) functionality requires Windows 11 24H2, select Intel® processor, and a Wi-Fi 7 router, sold separately. Wi-Fi 7 is backwards compatible with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. ²⁷ HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/cientmanagement/overview.html ²⁸ For detailed OS/hardware support information for Linux, see: http://www.hp.com/support/linux_hardware_matrix ²⁹ For more information about Product Carbon Footprint visit: https://b20195.www2.hp.com/support/linux_hardware.

doctype=95&footer=95&filter_doctype=no&showregionfacet=yes&filter_country=no&cc=us&lc=en&filter_oid=no&filter_prodtype=rw&prodtype=ij&show 95&sontorder-popular&leasers-off&isRetired-false&isRHParentNode-false&titleCheck-false#doctype-95&sontorder-popular&teasersoff&isRetired-false&isRHParentNode-false&titleCheck-false

30 Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25

nams. Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the PEAT standard for computers, IEEE 1680.1-2018 standard.

³³ External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be

Low Halogen. ⁵⁶ HP Wolf Pro Security Edition is available preloaded on select SKUs, and, depending on the HP product purchased, includes a license ¹⁴ HP Woll Pro Security Edition is available preloaded on select SKUs, and, depending on the HP product purchased, includes a license with a term length communicated to you at purchase and in your order confirmation email. The HP Woll Pro Security Edition Stotware is licensed under the license terms of the HP Woll Security Software - End-User license Agreement (EULA) that can be found at: https://support.hp.com/use-wich/acmem/stots/acmem/sto Sure Sense at no additional cost with no future software updates or HP Support. Notwithstanding the foregoing, the license shall expire no later than one year after the fixed term of the subject license ends.

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