

Family data sheet

HP Z Workstations

Quick reference guide



A family of overachievers



April 2017

Meet our HP Workstation family—compare features

Desktop Workstations



	HP Z2 Mini	HP Z240 SFF	HP Z240 Tower	
Overview	Built for the masses, designed for the selective.	Power, price, and size.	Powered to manage your challenges.	
Operating systems¹	Windows 10 Pro 64 Windows 7 Professional 64-bit (available through downgrade rights from Windows 10 Pro 64) ² HP Linux®-ready Red Hat® Enterprise Linux® Workstation (1 year paper license available; Preinstall not available)	Windows 10 Pro 64 Windows 7 Professional 64-bit (available through downgrade rights from Windows 10 Pro 64) ² HP Linux®-ready Red Hat® Enterprise Linux® Workstation (1 year paper license available; Preinstall not available)	Windows 10 Pro 64 Windows 7 Professional 64-bit (available through downgrade rights from Windows 10 Pro 64) ² HP Linux®-ready Red Hat® Enterprise Linux® Workstation (1 year paper license available; Preinstall not available)	
Processor/chipset^{3,4}	Intel® Xeon® E3-1200 v5/v6 series Intel® Core™ 6th and 7th Gen series Intel® C236 chipset	Intel® Xeon® E3-1200 v5/v6 series Intel® Core™ 6th and 7th Gen series Intel® Pentium® G4560 Intel® C236 chipset	Intel® Xeon® E3-1200 v5/v6 series Intel® Core™ 6th and 7th Gen series Intel® Pentium® G4560 Intel® C236 chipset	
Slots available/ maximum memory /number of memory channels⁵	2 DIMM slots, supporting up to 32 GB ECC/ non-ECC, DDR4-2400 MHz (Transfer rates up to 2400 Mt/s)	4 DIMM slots, supporting up to 64 GB ECC/non-ECC, DDR4-2400 (Transfer rates up to 2400 MT/s)	4 DIMM slots, supporting up to 64 GB ECC/non-ECC, DDR4-2400 (Transfer rates up to 2400 MT/s)	
Expansion slots⁶	1 80 mm M.2 (PCIe Gen3 x4) 1 30 mm M.2 (PCIe Gen3 x1)	1 PCIe Gen3 x16 slot 1 PCIe Gen3 x1 slot /x1 connector 1 PCIe Gen3 x1 slot /x1 connector 1 PCIe Gen3 x4 slot /x16 connector 1 M.2 slot PCIe Gen3 x4	1 PCIe Gen3 x16 slot 1 PCIe Gen3 x4 slot /x16 connector 1 PCIe Gen3 x4 slot /x4 connector 1 PCIe Gen3 x1 slot 1 PCI slot 32-bit (optional) 1 M.2 slot PCIe Gen3 x4	
Graphics	Intel® HD Graphics P630 Intel® HD Graphics P530 Intel® HD Graphics 630 Intel® HD Graphics 530 NVIDIA® Quadro® M620 (Performance model)	Intel® HD Graphics P630 Intel® HD Graphics P530 Intel® HD Graphics 630 Intel® HD Graphics 530 NVIDIA® NVS™ 310 NVIDIA® NVS™ 315 NVIDIA® NVS™ 510	NVIDIA® Quadro® K420 NVIDIA® Quadro® K620 AMD FirePro™ W2100 AMD Radeon™ Pro WX 4100 NVIDIA® Quadro® K1200	Intel® HD Graphics P630 Intel® HD Graphics P530 Intel® HD Graphics 630 Intel® HD Graphics 530 NVIDIA® NVS™ 310 NVIDIA® NVS™ 315 NVIDIA® NVS™ 510 AMD FirePro™ W5100 4 GB AMD FirePro™ W4300 4 GB
Maximum supported displays	Up to 6 2K displays (Performance model)	Up to 6 displays	Up to 6 displays	
Controllers and HDDs^{11,12}	500 GB, 1 TB SATA 7200 rpm HDD 256 GB SATA SSD 256/512 GB, 1 TB HP Z Turbo Drive (PCIe SSD) 256 GB HP Z Turbo Drive G2 (TLC PCIe SSD)	500 GB, 1/2/3 TB SATA 7200 rpm HDD 1/4 TB Enterprise Class SATA 7200 rpm HDD 500 GB SATA SED HDD 1 TB (8 GB cache) SATA SSHD 256/512 GB, 1TB SATA SSD 256 GB SATA SED 256/512 GB, 1 TB HP Z Turbo Drive (PCIe SSD) Integrated SATA Controller, RAID 0,1 supported: 4x 6 Gb/s ports HP Thunderbolt™ 2 ⁴ PCIe 1-port I/O Card	500 GB, 1/2/3 TB SATA 7200 rpm 1/4 TB Enterprise Class SATA 7200 rpm HDD 500 GB SATA SED HDD 1 TB (8 GB cache) SATA SSHD 256/512 GB, 1 TB SATA SSD 256 GB SATA 6Gb/s SED Opal 2 SSD 256/512 GB, 1 TB HP Z Turbo Drive (PCIe SSD) Integrated SATA Controller, RAID 0,1 supported: 4x 6 Gb/s ports HP Thunderbolt™ 2 ⁴ PCIe 1-port I/O Card	
Optical drives^{13,14}	HP USB to DVD drive (optional module)	HP DVD-ROM Slim-Tray Drive HP Blu-ray Writer Slim-Tray Drive HP SD Media Card Reader	HP DVD-ROM Slim-Tray Drive HP Slim SuperMulti DVD RW SATA Drive HP Blu-ray Writer Slim-Tray Drive HP SD Media Card Reader	
Remote technology¹⁵	HP Remote Graphics Software (RGS)	HP Remote Graphics Software (RGS)	HP Remote Graphics Software (RGS)	
Communications^{16,17}	1x integrated GbE LAN 1x WLAN/BT module (configurable option)	Integrated Intel® I219LM PCIe GbE Controller (Intel® vPro™ with Intel® AMT 11.0) Intel® Ethernet I210-T1 PCIe NIC Intel® 8260 802.11 a/b/g/n/ac with Bluetooth® 4.2 PCIe NIC	Integrated Intel® I219LM PCIe GbE Controller (Intel® vPro™ with Intel® AMT 11.0) Intel® Ethernet I210-T1 PCIe NIC HP X530 10GbE Dual Port Adapter HP 10GbE SFP+ SR Transceiver Intel® 8260 802.11 a/b/g/n/ac with Bluetooth® 4.2 PCIe NIC	

Desktop Workstations



	HP Z440	HP Z640	HP Z840
Overview	Expand your power.	Flexible, powerful, ready to work.	More power to you.
Operating systems¹	Windows 10 Pro 64 Windows 10 Home 64 Windows 7 Professional 64-bit (available through downgrade rights from Windows 10 Pro 64) ² HP Installer Kit for Linux (includes drivers for 64-bit OS versions of RHEL 6.6, RHEL 7, SUSE® Linux Enterprise Desktop 11, SP3, 12)	Windows 10 Pro 64 Windows 10 Home 64 Windows 7 Professional 64-bit (available through downgrade rights from Windows 10 Pro 64) ² HP Installer Kit for Linux (includes drivers for 64-bit OS versions of RHEL 6.6, RHEL 7, SUSE® Linux Enterprise Desktop 11, SP3, 12)	Windows 10 Pro 64 Windows 10 Home 64 Windows 7 Professional 64-bit (available through downgrade rights from Windows 10 Pro 64) ² HP Installer Kit for Linux (includes drivers for 64-bit OS versions of RHEL 6.6, RHEL 7, SUSE® Linux Enterprise Desktop 11, SP3, 12)
Processor/chipset⁴	Intel® Xeon® Processor E5-1600v3/v4 series Intel® Xeon® Processor E5-2600v3/v4 series Intel® C612 Chipset	Intel® Xeon® Processor E5-1600v3/v4 series Intel® Xeon® Processor E5-2600v3/v4 series Intel® C612 Chipset	Intel® Xeon® Processor E5-2600v3/v4 series Intel® C612 Chipset
Slots available/maximum memory/number of memory channels⁶	8 DIMM slots; Up to 128 GB DDR4-2400 (Transfer rates up to 2400 MT/s)	Up to 8 DIMM slots with 2 CPUs, up to 256 GB DDR4-2400 (Transfer rates up to 2400 MT/s)	Up to 16 DIMM slots with 2 CPUs, up to 1 TB DDR4-2400 (Transfer rates up to 2400 MT/s)
Expansion slots⁸	2 PCIe Gen3 x16 1 PCIe Gen3 x8 (open-ended connector) 1 PCIe Gen2 x4 (open-ended connector) 1 PCIe Gen2 x1 (open-ended connector) 1 PCI 32-bit/33 MT/s (legacy) Optional Thunderbolt™ 2 ⁴ via PCIe Card	2 PCIe Gen3 x16 1 PCIe Gen3 x8 (open-ended connector) 1 PCIe Gen2 x8 (x4 elec.; open-ended connector) 1 PCIe Gen2 x4 (x1 elec.; open-ended connector) – not available with riser installed 1 Legacy PCI Optional Thunderbolt™ 2 ⁴ via PCIe Card	2 PCIe Gen3 x16 2 PCIe Gen3 x8 (x16 mechanically) 1 PCIe Gen3 x4 (x8 mechanically) 1 PCIe Gen2 x4 (x8 mechanically) Optional Thunderbolt™ 2 ⁴ via PCIe Card
Graphics	NVIDIA® NV5™ 310 NVIDIA® NV5™ 315 NVIDIA® NV5™ 510 AMD FirePro™ W7100 NVIDIA® Quadro® K420 NVIDIA® Quadro® K620 AMD FirePro™ W2100 AMD FirePro™ W4300 AMD FirePro™ W5100 AMD Radeon™ Pro WX 4100 NVIDIA® Quadro® K1200 NVIDIA® Quadro® K2200 NVIDIA® Quadro® M2000 AMD FirePro™ W7100 NVIDIA® Quadro® K420 NVIDIA® Quadro® K620 AMD FirePro™ W2100 NVIDIA® Quadro® M4000 NVIDIA® Quadro® M5000 NVIDIA® Quadro® P5000 NVIDIA® Tesla® K40 HP VR Ready Configurations available	NVIDIA® NV5™ 310 NVIDIA® NV5™ 315 NVIDIA® NV5™ 510 AMD FirePro™ W7100 NVIDIA® Quadro® K420 NVIDIA® Quadro® K620 AMD FirePro™ W2100 AMD FirePro™ W4300 AMD FirePro™ W5100 AMD Radeon™ Pro WX 4100 NVIDIA® Quadro® K1200 NVIDIA® Quadro® K2200 NVIDIA® Quadro® M2000 AMD FirePro™ W7100 NVIDIA® Quadro® M4000 NVIDIA® Quadro® M5000 NVIDIA® Quadro® P6000 AMD FirePro™ W2100 AMD FirePro™ W4300 AMD FirePro™ W5100 NVIDIA® Tesla® K40 HP VR Ready Configurations available	NVIDIA® NV5™ 310 NVIDIA® NV5™ 315 NVIDIA® NV5™ 510 AMD FirePro™ Pro WX 7100 NVIDIA® Quadro® K420 NVIDIA® Quadro® M4000 NVIDIA® Quadro® M5000 NVIDIA® Quadro® M6000 (12 GB) NVIDIA® Quadro® M6000 (24 GB) NVIDIA® Quadro® P5000 NVIDIA® Quadro® P6000 NVIDIA® Tesla® K40 HP VR Ready Configurations available
Maximum supported displays	Up to 8 displays	Up to 8 displays	Up to 12 displays
Controllers and HDDs^{11,12}	Integrated SATA Controller, RAID 0, 1, 10 supported: 6 ports, 6 Gb/s Up to (4) 2.5-inch 10K rpm SAS drives: 300/600 GB, 1.2 TB: 4.8 TB max Up to (4) 2.5-inch 15K rpm SAS drives: 300/600 GB: 2.4 TB max Up to (4) 3.5-inch 7200 rpm SATA drives: 500 GB, 1/2/3/4 TB: 16 TB max 1 TB (8 GB cache) SATA SSHD Up to (4) 2.5-inch SATA SSD: 128/256/512 GB, 1/2 TB: 8 TB max Up to (1) 2.5-inch SATA SED: 256/512 GB SSD, 500 GB HDD Up to (4) 2.5-inch HP Enterprise Class SATA SSD: 240/480 GB: 1.9 TB max Up to (2) PCIe SSD HP Z Turbo Drives G2: 256/512 GB, 1 TB: 2 TB max Up to (1) PCIe SED SSD HP Z Turbo Drive G2: 256/512 GB Up to (2) PCIe TLC SSD HP Z Turbo Drive G2: 256/512 GB, 1 TB: 2 TB max HP Z Turbo Drive Quad Pro G2: 2-4x256 GB, 2-4x512 GB, 2-4x1 TB; Modules: 256/512 GB, 1 TB: 4 TB max Note: Fourth 3.5-inch drive occupies one external 5.25-inch bay.	Integrated SATA Controller, RAID 0, 1, 10 supported: 6 ports, 6 Gb/s Up to (4) 2.5-inch 10K rpm SAS drives: 300/600 GB, 1.2 TB: 4.8 TB max Up to (4) 2.5-inch 15K rpm SAS drives: 300/600 GB: 2.4 TB max Up to (4) 3.5-inch 7200 rpm SATA drives: 500 GB, 1/2/3/4 TB: 16 TB max 1 TB (8 GB cache) SATA SSHD Up to (4) 2.5-inch SATA SSD: 128/256/512 GB, 1/2 TB: 8 TB max Up to (1) 2.5-inch SATA Self-Encrypting Solid State Drive (SED SSD): 256, 512 GB Opal 2 Up to (4) 2.5-inch HP Enterprise Class SATA SSD: 240/480 GB: 1.9 TB max Up to (2) PCIe SSD HP Z Turbo Drives G2: 256/512 GB, 1 TB: 2 TB max Up to (1) PCIe SED SSD HP Z Turbo Drive G2: 256/512 GB Up to (2) PCIe TLC SSD HP Z Turbo Drive G2: 256/512 GB, 1 TB: 2 TB max HP Z Turbo Drive Quad Pro G2: 2-4x256 GB, 2-4x512 GB, 2-4x1 TB; Modules: 256/512 GB, 1 TB: 4 TB max Note: Fourth 3.5-inch drive occupies one external 5.25-inch bay	Integrated SATA Controller, RAID 0, 1, 10 supported: 6 ports, 6 Gb/s Integrated SAS controller, RAID 0, 1, 10 supported: 8 ports 6 Gb/s Up to (6) 2.5-inch 10K rpm SAS Drives: 300/600 GB, 1.2 TB: 7.2 TB max Up to (6) 2.5-inch 15K rpm SAS drives: 300/600 GB: 3.6 TB max Up to (5) 3.5-inch 7200 rpm SATA Drives: 500 GB SED SFF, 500 GB, 1/2/3/4 TB: 24 TB max Up to (6) 2.5-inch SATA SSD: 128/256/512 GB, 1/2 TB: 12 TB max 1 TB (8 GB cache) SATA SSHD Up to (1) 2.5-inch SATA SED SSD: 256/512 GB: 512 GB max Up to (6) 2.5-inch HP Enterprise Class SATA SSD: 240/480 GB: 2.8 TB max Up to (2) PCIe SSD HP Z Turbo Drives G2: 256/512 GB, 1 TB: 2 TB max Up to (1) PCIe SED SSD HP Z Turbo Drive G2: 256/512 GB Up to (2) PCIe TLC SSD HP Z Turbo Drive G2 TLC: 256/512 GB, 1 TB: 2 TB max HP Z Turbo Drive Quad Pro G2: 2-4x256 GB, 2-4x512 GB, 2-4x1 TB; Modules: 256/512 GB, 1 TB: 4 TB max Note: Fifth 3.5-inch drive occupies one external 5.25-inch bay
Optical drives^{13,14}	HP DX115 Removable HDD Frame/Carrier HP 9.5 mm Slim SuperMulti DVD Writer HP 9.5 mm Slim DVD-ROM Drive HP 9.5 mm Slim BDXL Blu-ray Writer HP 15-in-1 Media Card Reader	HP DX115 Removable HDD Frame/Carrier HP 9.5 mm Slim SuperMulti DVD Writer HP 9.5 mm Slim DVD-ROM Drive HP 9.5 mm Slim BDXL Blu-ray Writer HP 15-in-1 Media Card Reader	HP DX115 Removable HDD Frame/Carrier HP 9.5 mm Slim SuperMulti DVD Writer HP 9.5 mm Slim DVD-ROM Drive HP 9.5 mm Slim BDXL Blu-ray Writer HP 15-in-1 Media Card Reader
Remote technology¹⁵	HP Remote Graphics Software 6.0 (RGS)	HP Remote Graphics Software 6.0 (RGS)	HP Remote Graphics Software 6.0 (RGS)
Communications	Integrated Intel® I218LM PCIe GbE Controller Intel® Ethernet I210-T1 PCIe NIC HP X520 10GbE Dual Port Adapter HP X540-T2 10 GbE Dual Port Adapter HP 10GbE SFP+ SR Transceiver HP 361T PCIe Dual Port Gigabit NIC Intel® 7260 802.11 a/b/g/n PCIe WLAN NIC Intel® 8260 802.11 a/b/g/n/ac with Bluetooth® 4.2 PCIe NIC	Integrated Intel® I218LM PCIe GbE Controller Intel® Ethernet I210-T1 PCIe NIC HP X520 10GbE Dual Port Adapter HP X540-T2 10 GbE Dual Port Adapter HP 10 GbE SFP+ SR Transceiver HP 361T PCIe Dual Port Gigabit NIC Intel® 7260 802.11 a/b/g/n PCIe WLAN NIC Intel® 8260 802.11 a/b/g/n/ac with Bluetooth® 4.2 PCIe NIC	Integrated Intel® I218LM PCIe GbE Controller Integrated Intel® I210AT PCIe GbE Controller Intel® Ethernet I210-T1 PCIe NIC HP X520 10 GbE Dual Port Adapter HP X540-T2 10 GbE Dual Port Adapter HP 10 GbE SFP+ SR Transceiver HP 361T PCIe Dual Port Gigabit NIC HP 361T PCIe Dual Port Gigabit NIC Intel® 7260 802.11 a/b/g/n PCIe WLAN NIC



Mobile Workstations

	HP ZBook 14u G4	HP ZBook 15u G4	HP ZBook Studio G4
Overview	Designed to move	Thin, powerful, affordable.	Brilliant inside and out.
Operating systems¹	Windows 10 Pro 64 Windows 10 Home 64 FreeDOS 2.0	Windows 10 Pro 64 Windows 10 Home 64 FreeDOS 2.0	Windows 10 Pro 64 Windows 10 Home 64 FreeDOS 2.0
Processor/chipset³	7th Generation Intel® Core™ i7 processor (i7-7500U, i7-7600U models) 7th Generation Intel® Core™ i5 processor (i5-7200U, i5-7300U models); Chipset integrated with processor	7th Generation Intel® Core™ i7 processor (i7-7500U, i7-7600U models) 7th Generation Intel® Core™ i5 processor (i5-7200U, i5-7300U models); Chipset integrated with processor	7th Generation Intel® Xeon® processor (E3-1535M v6, E3-1505M v6 models); 7th Generation Intel® Core™ i7 processor (i7-7700HQ, i7-7820HQ models); 7th Generation Intel® Core™ i5 processor (i5-7300HQ, i5-7440HQ models) Mobile Intel® CM236
Slots available/ maximum memory/ number of memory channels	2 SODIMM slots; Dual-channel memory; Up to 32 GB DDR4-2133 non-ECC SDRAM (Transfer rates up to 2133 MT/s)	2 SODIMM slots; Dual-channel memory; Up to 32 GB DDR4-2133 non-ECC SDRAM (Transfer rates up to 2133 MT/s)	2 SODIMM slots; Dual-channel memory; Up to 32 GB DDR4-2400 ECC or non-ECC SDRAM (Transfer rates up to 2400 MT/s); Non-ECC memory only available with Intel® Core™ processors. ECC memory only available with Intel® Xeon® processors.
Expansion slots	1 Smart card reader; 1 SD media reader (SD supports next generation secure digital and is backward compatible to SDHC, SDXC)	1 Smart card reader 1 SD media reader (SD supports next generation secure digital and is backward compatible to SDHC, SDXC)	1 SD media reader (SD supports next generation secure digital and is backward compatible to SDHC, SDXC) 2 USB Type-C™ (supporting Thunderbolt™ 3, DisplayPort™ 1.2, USB 3.1)
Graphics^{9,10}	Intel® HD 620 Graphics AMD FirePro® W4190M	Intel® HD 620 Graphics AMD FirePro® W4190M	Intel® HD Graphics P630 Intel® HD Graphics 630 NVIDIA® Quadro® M1200M (4 GB GDDR5 dedicated)
Display options	14" diagonal HD SVA anti-glare (1366 x 768) 14" diagonal FHD SVA anti-glare (1920 x 1080) 14" diagonal FHD SVA anti-glare touch screen (1920 x 1080) 14" diagonal FHD UWVA anti-glare (1920 x 1080)	15.6" diagonal FHD SVA anti-glare (1920 x 1080) 15.6" diagonal FHD UWVA anti-glare (1920 x 1080) 15.6" diagonal FHD SVA anti-glare touch screen (1920 x 1080) 15.6" diagonal UHD UWVA anti-glare (3840 x 2160)	15.6" diagonal FHD UWVA IPS anti-glare (1920 x 1080) 15.6" diagonal UHD UWVA IPS anti-glare (3840 x 2160) 15.6" diagonal UHD DreamColor UWVA IPS anti-glare (3840 x 2160) 15.6" diagonal FHD UWVA IPS touch screen (1920 x 1080)
Maximum supported displays	Up to 3 independent displays via internal LCD Panel, system DisplayPort™, system VGA, or using the HP UltraSlim Docking Station DisplayPort™ and VGA ports (sold separately).	Up to 3 independent displays via internal LCD Panel, system DisplayPort™, system VGA, or using the HP UltraSlim Docking Station DisplayPort™ and VGA ports (sold separately).	NVIDIA® Quadro® mobile professional graphics support up to four independent displays when using a HP ZBook Dock with Thunderbolt 3 (sold separately) or DP 1.2 hubs with MST.
Controllers and HDDs¹¹	1 TB SATA (5400 rpm) 500 GB SATA (7200 rpm) 500 GB SATA SED (7200 rpm) 500 GB SATA SED FIPS 140-2 (7200 rpm) 500 GB (8 GB cache) SATA SSHD (5400 rpm) 256 GB M.2 SATA SED SSD 512 GB M.2 SATA SED FIPS SSD 256/512 GB, 1 TB HP Z Turbo Drive G2 (NVMe PCIe MLC SSD) 256 GB HP Z Turbo Drive G2 (NVMe PCIe TLC SSD) 512 GB HP Z Turbo Drive G2 (NVMe PCIe TLC SED SSD)	1 TB SATA (5400 rpm) 500 GB SATA (7200 rpm) 500 GB SATA SED (7200 rpm) 500 GB SATA SED FIPS 140-2 (7200 rpm) 500 GB (8 GB cache) SATA SSHD (5400 rpm) 256 GB M.2 SATA SSD 512 GB M.2 SATA SED SSD 256/512 GB, 1 TB HP Z Turbo Drive G2 (NVMe PCIe MLC SSD) 256 GB HP Z Turbo Drive G2 (NVMe PCIe TLC SSD) 512 GB HP Z Turbo Drive G2 (NVMe PCIe TLC SED SSD)	128 GB M.2 SATA SSD 256 GB M.2 SATA SED SSD 256 GB HP Z Turbo Drive G2 (NVMe PCIe TLC SSD) 512 GB HP Z Turbo Drive G2 (NVMe PCIe TLC SED SSD) 256 GB, 1 TB HP Z Turbo Drive G2 (NVMe PCIe MLC SSD)
Remote technology¹⁵	HP Remote Graphics Software (RGS)	HP Remote Graphics Software (RGS)	HP Remote Graphics Software (RGS)
Communications	Integrated Intel® I219-LM GbE for vPro™ processors Integrated Intel® I219-V GbE for non-vPro™ processors Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi and Bluetooth® 4.2 Combo Intel® Dual Band Wireless-AC 3168 802.11ac (1x1) non-vPro™ Wi-Fi and Bluetooth® 4.2 Combo Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) non-vPro™ Wi-Fi and Bluetooth® 4.2 Combo HP lt4132 LTE/HSPA+ 4G Mobile Broadband Module HP lt4120 LTE/HSPA+ 4G Mobile Broadband Module HP hs3210 HSPA+ Mobile Broadband Module	Integrated Intel® I219-LM GbE for vPro™ processors Integrated Intel® I219-V GbE for non-vPro™ processors Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi and Bluetooth® 4.2 Combo Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) non-vPro™ Wi-Fi and Bluetooth® 4.2 Combo Intel® Dual Band Wireless-AC 3168 802.11ac (1x1) non-vPro™ Wi-Fi and Bluetooth® 4.2 Combo HP lt4132 Qualcomm® Snapdragon™ X5 LTE Mobile Broadband Module HP lt4120 Qualcomm® Snapdragon™ X5 LTE Mobile Broadband Module HP hs3110 HSPA+ Intel® Mobile Broadband Module	Integrated Intel® I219-LM Gigabit Network Connection Intel® Dual Band Wireless-AC 8265 802.11 a/b/g/n/ac (2x2) Wi-Fi + Bluetooth® 4.2 Combo Intel® Dual Band Wireless-AC 8265 802.11 a/b/g/n/ac (2x2) non-vPro™ Wi-Fi + Bluetooth® 4.2 Combo

Mobile Workstations



	HP ZBook 15 G4	HP ZBook 17 G4
Overview	Portable powerhouse.	Ultimate mobile performance.
Operating systems¹	Windows 10 Pro 64 Windows 10 Home 64 FreeDOS 2.0	Windows 10 Pro 64 Windows 10 Home 64 FreeDOS 2.0
Processor/chipset³	7th Generation Intel® Xeon® processor (E3-1535M v6, E3-1505M v6 models); 7th Generation Intel® Core™ i7 processor (i7-7700HQ, i7-7820HQ models); 7th Generation Intel® Core™ i5 processor (i5-7300HQ, i5-7440HQ models) Mobile Intel® CM236 integrated with processor	7th Generation Intel® Xeon® processor (E3-1535M v6, E3-1505M v6 models); 7th Generation Intel® Core™ i7 processor (i7-7700HQ, i7-7820HQ models); 7th Generation Intel® Core™ i5 processor (i5-7300HQ, i5-7440HQ models) Mobile Intel® CM236 integrated with processor
Slots available/maximum memory/number of memory channels⁷	4 SODIMM slots; Dual-channel memory; Up to 64 GB DDR4-2400 ECC or non-ECC SDRAM (Transfer rates up to 2400 MT/s for systems with less than 32 GB. Transfer rates up to 2133 MT/s for systems with greater than 32 GB.); Non-ECC memory only available with Intel® Core™ processors. ECC memory only available with Intel® Xeon® processors.	4 SODIMM slots; Dual-channel memory; Up to 64 GB DDR4-2400 ECC or non-ECC SDRAM (Transfer rates up to 2400 MT/s for systems with less than 32 GB. Transfer rates up to 2133 MT/s for systems with greater than 32 GB.); Non-ECC memory only available with Intel® Core™ processors. ECC memory only available with Intel® Xeon® processors.
Expansion slots	1 Smart card reader 1 SD media reader (SD supports next generation secure digital and is backward compatible to SDHC, SDXC) 2 USB Type-C™ (Thunderbolt™ 3, DisplayPort™ 1.2, USB 3.1)	1 Smart card reader 1 SD media reader (SD supports next generation secure digital and is backward compatible to SDHC, SDXC) 2 USB Type-C™ (Thunderbolt™ 3, DisplayPort™ 1.2, USB 3.1)
Graphics^{9,10}	Intel® HD Graphics P630 AMD Radeon™ Pro WX 4150 Intel® HD Graphics 630 NVIDIA® Quadro® M620 NVIDIA® Quadro® M1200 NVIDIA® Quadro® M2200	Intel® HD Graphics P630 NVIDIA® Quadro® M1200 Intel® HD Graphics 630 NVIDIA® Quadro® M2200 AMD Radeon™ Pro WX 4170 NVIDIA® Quadro® P3000 NVIDIA® Quadro® P4000 NVIDIA® Quadro® P5000 HP VR Ready Configurations available
Display options	15.6" diagonal FHD IPS anti-glare (1920 x 1080) 15.6" diagonal UHD DreamColor IPS anti-glare (3840 x 2160) 15.6" diagonal FHD IPS touch screen (1920 x 1080) 15.6" diagonal FHD anti-glare (1920 x 1080)	17.3" diagonal HD+ anti-glare (1600 x 900) 17.3" diagonal FHD IPS anti-glare (1920 x 1080) 17.3" diagonal FHD IPS touch screen (1920 x 1080) 17.3" diagonal UHD DreamColor IPS anti-glare (3840 X 2160)
Maximum supported displays	NVIDIA® Quadro® mobile professional graphics support up to four independent displays when using a HP ZBook Dock with Thunderbolt 3 (sold separately) or DP 1.2 hubs with MST. AMD Radeon™ Pro professional graphics support up to six independent displays when using an HP ZBook Dock with Thunderbolt 3 (sold separately) or DP 1.2 hubs with MST.	NVIDIA® Quadro® mobile professional graphics support up to four independent displays when using a HP ZBook Dock with Thunderbolt 3 (sold separately) or DP 1.2 hubs with MST. AMD Radeon™ Pro professional graphics support up to six independent displays when using an HP ZBook Dock with Thunderbolt 3 (sold separately) or DP 1.2 hubs with MST.
Controllers and HDDs¹¹	500 GB SATA (7200 rpm) 1 TB SATA (5400 rpm) 500 GB SATA SED (7200 rpm) 500 GB SATA SED FIPS 140-2 (7200 rpm) 500 GB (8 GB cache) SATA SSHD 256 GB, 1 TB SATA SSD 256 GB M.2 SATA SED SSD 512 GB M.2 SATA FIPS SSD 256 GB HP Z Turbo Drive G2 (NVMe™ PCIe® TLC SSD) 512 GB HP Z Turbo Drive G2 (NVMe™ PCIe® TLC SED SSD) 256 GB, 1 TB HP Z Turbo Drive G2 (NVMe™ PCIe® MLC SSD)	1 TB SATA (7200 rpm) 500 GB, 1 TB SATA (7200 rpm) 500 GB SATA SED (7200 rpm) 500 GB SATA SED FIPS 140-2 (7200 rpm) 500 GB (8 GB cache) SATA SSHD 256 GB, 1 TB SATA SSD 256 GB M.2 SATA SED SSD 256 GB HP Z Turbo Drive G2 (NVMe™ PCIe® TLC SSD) 512 GB HP Z Turbo Drive G2 (NVMe™ PCIe® TLC SED SSD) 256 GB, 1 TB HP Z Turbo Drive G2 (NVMe™ PCIe® MLC SSD)
Remote technology¹⁵	HP Remote Graphics Software (RGS)	HP Remote Graphics Software (RGS)
Communications	Integrated Intel® I219-LM Gigabit Network Connection Intel® Dual Band Wireless-AC 8265 802.11 a/b/g/n/ac (2x2) Wi-Fi and Bluetooth® 4.2 combo Intel® Dual Band Wireless-AC 8265 802.11 a/b/g/n/ac (2x2) non-vPro™ Wi-Fi and Bluetooth® 4.2 combo HP lt4120 Qualcomm® Snapdragon™ X5 LTE Mobile Broadband Module HP lt4132 LTE/HSPA+ 4G Mobile Broadband Module HP hs3210 HSPA+ Mobile Broadband Module	Integrated Intel® I219-LM Gigabit Network Connection Intel® Dual Band Wireless-AC 8265 802.11 a/b/g/n/ac (2x2) Wi-Fi and Bluetooth® 4.2 combo Intel® Dual Band Wireless-AC 8265 802.11 a/b/g/n/ac (2x2) non-vPro™ Wi-Fi and Bluetooth® 4.2 combo HP lt4120 LTE/HSPA+ 4G Mobile Broadband Module HP lt4132 LTE/HSPA+ 4G Mobile Broadband Module HP hs3210 HSPA+ Mobile Broadband Module

Screen images courtesy of: Autodesk, Local Motors, and Morgan Motor Company

- 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 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.microsoft.com>.
- ² This system is preinstalled with Windows 7 Professional software and also comes with a license and media for Windows 10 Pro 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 operating systems to avoid loss of your data.
- ³ In accordance with Microsoft's support policy, HP does not support the Windows® 8 or Windows 7 operating system on products configured with Intel® and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>.
- ⁴ The following applies to HP systems with Intel® 6th Gen and other future-generation processors on systems shipping with Windows 7, Windows 8, Windows 8.1 or Windows 10 Pro systems downgraded to Windows 7 Professional, Windows 8 Pro, or Windows 8.1: This version of Windows running with the processor or chipsets used in this system has limited support from Microsoft. For more information about Microsoft's support, please see Microsoft's Support Lifecycle FAQ at support.microsoft.com/lifecycle.
- ⁵ HP Z240 Tower and HP Z240 SFF: Each processor supports up to 2 channels of DDR4 memory. To realize full performance at least 1 DIMM must be inserted into each channel. To get full 8 channel support, 2 processors MUST be installed. Actual memory speeds dependent on processor capability.
- ⁶ HP Z440, HP Z640, HP Z840: Each processor supports up to 4 channels of DDR4 memory. To realize full performance at least 1 DIMM must be inserted into each channel. To get full 8 channel support, 2 processors MUST be installed. Actual memory speeds dependent on processor capability.
- ⁷ HP ZBook 15 G4 and HP ZBook 17 G4: Only 2 DIMM configurations run at 2400 MHz and 4 DIMM configurations run at 2133 MHz.
- ⁸ In the PCIe Gen3 x16 slot, if it is not being used for a graphics card, only cards certified as After Market Options for this platform are supported.
- ⁹ For Intel® HD graphics: HD content required to view HD images.
- ¹⁰ For HP ZBook Studio G4, HP ZBook 15 G4, HP ZBook 17 G4: Intel® HD graphics 630 is configurable as a standalone graphics option; Intel® HD graphics P630 only used when NVIDIA® Optimus™ Technology is enabled.
- ¹¹ For hard drives, 1 GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 20 GB (for Windows 7) and up to 30 GB (for Windows 8.1 and 10) of hard drive (or system disk) is reserved for the system recovery software.
- ¹² SATA hardware RAID is not supported on Linux® systems. The Linux® kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID. Please visit h20000.www2.hp.com/bc/docs/support/SupportManual/c00060684/c00060684.pdf for RAID capabilities with Linux®.
- ¹³ Duplication of copyrighted material is strictly prohibited. Actual speeds may vary. Double Layer media compatibility will widely vary with some home DVD players and DVD-ROM drives. Note that DVD-RAM cannot read or write to 2.6GB Single Sided/5.2 Double Sided-Version 1.0 Media.
- ¹⁴ With Blu-Ray, certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support. HD-DVD movies cannot be played.
- ¹⁵ HP RGS requires a Windows, Linux®, or Mac® OS X 10.10 and newer operating system and network access.
- ¹⁶ Wireless cards are optional or add-on features and requires separately purchased wireless access point and internet service. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.
- ¹⁷ WWAN is an optional feature. 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.

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