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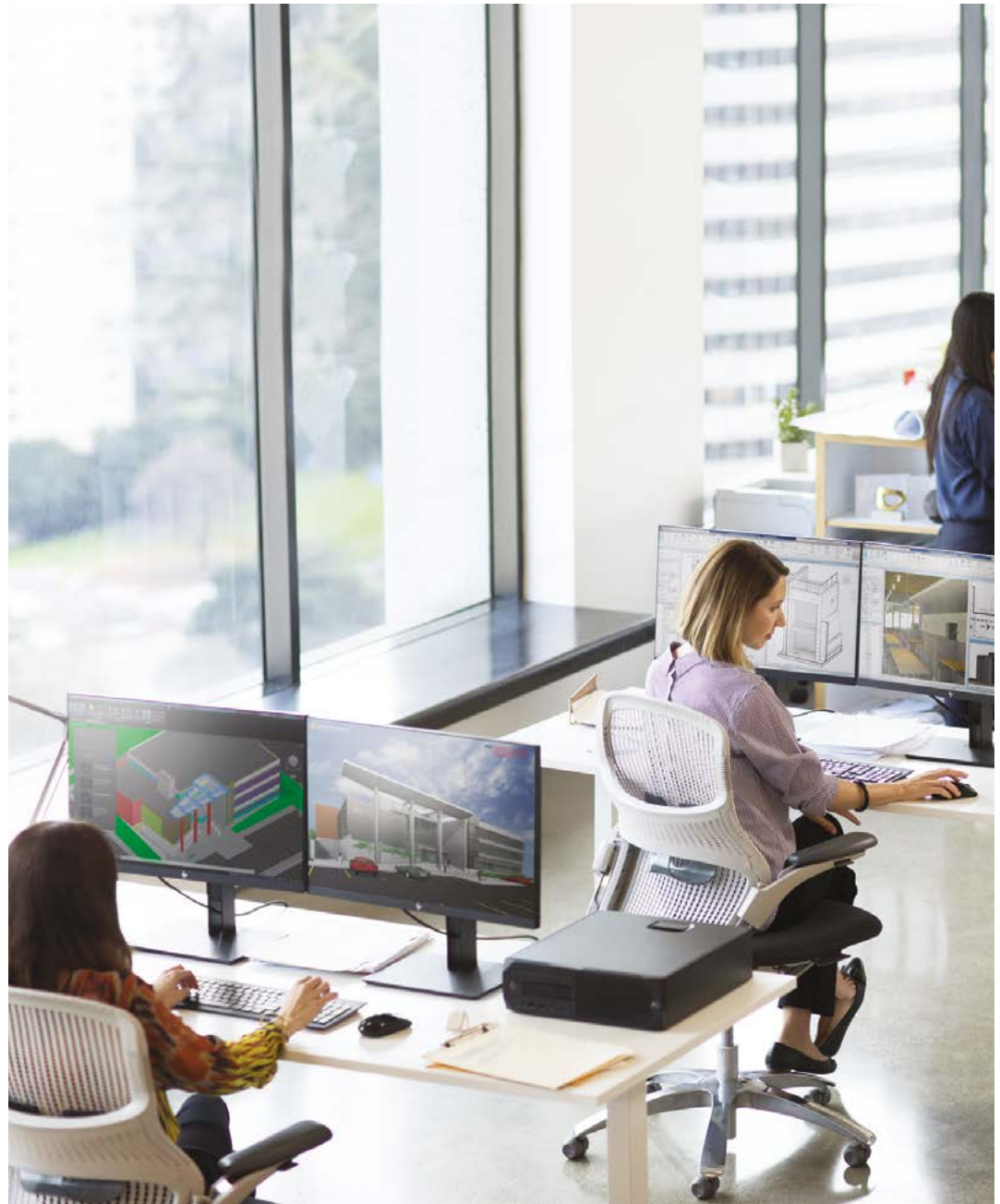
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Z BY HP DESKTOPS

	Z2 Mini G4	Z2 SFF G4	Z2 Tower G4
Overview	Built for the masses, designed for the selective	Power, price, and size	Powered to manage your challenges
Operating systems ^{1,2}	Windows 10 Pro 64, Windows 7 Professional 64-bit (available through downgrade rights from Windows 10 Pro 64), HP Linux®-ready, Red Hat® Enterprise Linux® Workstation (1 year paper license available; Preinstall not available)		
Processor ^{6,7,8,9}	Intel® Xeon® processor E-2000G series Intel® Pentium® Gold processor Intel® Core™ 8th Gen i7+, i7, i5+, i5, i3 processor		
Chipset	Intel® C246	Intel® C246	Intel® C246
Memory slots available	2 DIMM	4 DIMM	4 DIMM
Maximum memory ^{11,12}	Up to 64 GB ECC/non-ECC DDR4-2666 MHz (Transfer rates up to 2666 MT/s)	Up to 128 GB ECC/non-ECC DDR4-2666 (Transfer rates up to 2666 MT/s)	
Number of memory channels	Dual-channel		
Graphics ^{14,15,16}	Intel® HD Graphics 630 Intel® HD Graphics P630 AMD Radeon™ Pro WX 4150* NVIDIA® Quadro® P600* NVIDIA® Quadro® P1000* (*Performance model only)	Intel® HD Graphics 630 Intel® HD Graphics P630 AMD Radeon™ Pro WX 3100 AMD Radeon™ Pro WX 4150 NVIDIA® Quadro® P400 NVIDIA® Quadro® P620 NVIDIA® Quadro® P1000	Intel® HD Graphics 630 Intel® HD Graphics P630 AMD Radeon™ Pro WX 3100 AMD FirePro™ W7100 NVIDIA® Quadro® P400 NVIDIA® Quadro® P620 NVIDIA® Quadro® P1000 NVIDIA® Quadro® P2000 NVIDIA® Quadro® P4000 NVIDIA® Quadro® P5000 NVIDIA® Quadro® RTX 4000 NVIDIA® Quadro® RTX 5000
Maximum supported displays	6 (Performance model only)	6	6
Drive controllers	AHCI, NVMe™	Integrated SATA Controller, RAID 0,1 supported: 4x 6 Gb/s ports Factory integrated RAID on motherboard for SATA Drives and for HP Z Turbo Drives (Raid 0 or 1 for boot or data configuration) HP Thunderbolt 3 PCIe I/O card	
Internal storage ^{22,23,24,25}	Up to (1) 7200 rpm SATA HDD: 500 GB, 1 TB: 1 TB Max Up to (1) 5400 rpm SATA HDD: 2 TB: 2 TB max Up to (1) SATA SSD: 256 GB: 256 GB max Up to (1) HP Z Turbo Drive G2 (PCIe M.2 SSD): 256/512 GB, 1 TB: 1 TB max 16 GB Intel® Optane™ memory	Up to (2) 7200 rpm SATA HDD: 500 GB, 1/2/4/6 TB: 12 TB max Up to (2) 7200 rpm Enterprise Class SATA HDD: 1 TB: 2 TB max Up to (2) SATA SED HDD: 500 GB: 1 TB max Up to (1) SATA SSD: 256/512 GB, 1/2 TB: 2 TB max Up to (1) SATA SED: 256 GB: 256 GB max Up to (2) HP Z Turbo Drive (PCIe SSD): 256/512 GB, 1 TB: 2 TB max Intel® Optane™ SSD 905p 280 GB AiC* Intel® Optane™ SSD 905p 480 GB AiC* 16 GB Intel® Optane™ memory (*PCIe card installed in standard PCIe x4 slot)	Up to (2) 7200 rpm SATA: 500 GB, 1/2/4/6 TB: 12 TB max Up to (2) 7200 rpm Enterprise Class SATA HDD: 1 TB: 2 TB max Up to (2) 7200 rpm SSHD: 1 TB: 1 TB max Up to (2) SATA SSD: 256/512 GB, 1/2 TB: 4 TB max Up to (2) SATA SED: 256 GB: 512 GB max Up to (2) HP Z Turbo Drive (PCIe SSD): 256/512 GB, 1 TB: 2 TB max Intel® Optane™ SSD 905p 280 GB AiC* Intel® Optane™ SSD 905p 480 GB AiC* 16 GB Intel® Optane™ memory (*PCIe card installed in standard PCIe x4 slot)
Optical + other storage ^{28,29}	HP External Ultra-Slim DVD-RW Drive	HP Slim DVD Writer HP Slim DVD-ROM Drive HP Slim BDXL Blu-ray Writer HP SD Media Card Reader	



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	Z2 Mini G4	Z2 SFF G4	Z2 Tower G4
Expansion slots ³⁰	HP Slim DVD Writer HP Slim DVD-ROM Drive HP Slim BDXL Blu-ray Writer HP SD Media Card Reader		1 PCIe Gen3 x16 slot 2 PCIe Gen3 x1 slot /x4 connector 1 PCIe Gen3 x4 slot /x16 connector 2 M.2 storage (PCIe Gen3 x4)* 1 M.2 WLAN (PCIe Gen3 x1+Intel® CNVI)* (all slots are Low Profile) *M.2 storage supports compatible devices at 80 mm
Communications ³¹	Integrated Intel® I219LM PCIe GbE Controller (Intel® vPro® with Intel® AMT 12.0) Intel® 9560 Wireless LAN (802.11ac) and Bluetooth® 5 Module		Integrated Intel® I219LM PCIe GbE Controller (Intel® vPro® with Intel® AMT 12.0) Intel® X710-DA2 2-Port 10GbE SFP+ NIC HP 10GbE SFP+ SR Transceiver Intel® X550-T2 2-Port 10GbE NIC Intel® 9560 802.11 a/b/g/n/ac with Bluetooth® 5 M.2 Intel® I350-T2 2-Port 1GbE(3) NIC Intel® I350-T4 4-Port 1GbE(3) NIC Aquantia AQN-108 1-Port 5GbE NIC
Remote technology ³⁶	HP Remote Graphics Software (HP RGS)	HP Remote Graphics Software (HP RGS)	HP Remote Graphics Software (HP RGS)
Dimensions	8.5 x 8.5 x 2.28 in 21.6 x 21.6 x 5.8 cm	13.3 x 15 x 3.95 in 33.8 x 38.1 x 10 cm	6.7 x 17.1 x 14.0 in 16.9 x 43.5 x 35.6 cm
Starting weight	4.25 lb 1.93 kg	12.12 lb 5.5 kg	15.43 lb 7.0 kg



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Z BY HP DESKTOPS

	Z1 G6	Z2 Mini G5	Z2 SFF G5	Z2 Tower G5
Overview	HP's most affordable desktop workstation	Our most powerful mini workstation. Now even mightier	HP's most powerful small form factor, reimaged	Our most powerful entry workstation that redefines entry workstation that redefines expectations
Operating systems ^{1,2}	Windows 10 Pro 64, Windows 7 Professional 64-bit (available through downgrade rights from Windows 10 Pro 64), HP Linux [®] -ready, Red Hat [®] Enterprise Linux [®] Workstation (1 year paper license available; Preinstall not available)		Windows 10 Pro 64 Windows 10 Pro 64 High End Windows 10 Pro 64 Workstations Plus Windows 10 Home 64 Plus Windows 10 Home 64 Advanced Windows 10 Home 64 Chinese Language Linux [®] Ready	
Processor ^{6,7,8,9}	10th Generation Intel [®] Core™ up to Core i9 processors with optional Intel [®] vPro [®]		10th Generation Intel [®] Core™ i3, i5, i7, i9 and Xeon [®] processors with optional Intel [®] vPro [®]	
Chipset	Intel [®] Q470		Intel [®] W480	
Memory slots available	4 DIMM	2 SODIMM		4 DIMM
Maximum memory ^{11,12}	128 GB DDR4-2666/2933MHz DRAM	64 GB DDR4-3200 ECC SDRAM; 64 GB DDR4-3200 non-ECC (transfer rates up to 2933MT/s)	128 GB DDR4-3200 ECC SDRAM; 128 GB DDR4-3200 non-ECC SDRAM (transfers rate up to 2933MT/s)	
Number of memory channels	Dual Channel		Dual Channel	
Graphics ^{14,15,16}	Intel [®] UHD 630 Graphics AMD Radeon™ R7 430 2 GB GDDR5 64bit DP+VGA; AMD Radeon™ R7 430 2 GB GDDR5 64bit 2DP; AMD Radeon™ RX 550X 4 GB DP HDMI Graphics Card; NVIDIA [®] Quadro P400 2 GB Graphics Card; NVIDIA [®] Quadro P620 2 GB Graphics Card; NVIDIA [®] Quadro P1000 4 GB 4mDP Graphics Card; NVIDIA [®] Quadro P2200 5 GB 4DP Graphics Card; NVIDIA [®] Quadro RTX™ 4000 8 GB NVIDIA [®] GeForce [®] RTX 2080 Super 8 GB FH 3DP HDMI Graphics Card NVIDIA [®] GeForce [®] RTX 2060 Super 8 GB FH DP HDMI DVI-D Graphics Card NVIDIA [®] Quadro RTX™ 5000 16 GB Graphics	NVIDIA [®] Quadro [®] P620 MXM Graphics (4 GB GDDR5 dedicated) AMD Radeon™ Pro WX 3200 (4 GB GDDR5 dedicated) NVIDIA [®] Quadro [®] T2000 MXM Graphics (4 GB GDDR6 dedicated) NVIDIA [®] Quadro [®] T1000 MXM Graphics (4 GB GDDR6 dedicated) 0 3000 6 GB MXM Graphics (in Q1, 21)	Intel [®] UHD 630 / P630 Graphics NVIDIA [®] Quadro [®] P1000 (4 GB GDDR5 dedicated) NVIDIA [®] Quadro [®] P400 (2 GB GDDR5 dedicated) NVIDIA [®] Quadro [®] P620 (2 GB GDDR5 dedicated) AMD Radeon™ Pro WX 3200 Graphics (4 GB GDDR5 dedicated) NVIDIA [®] Quadro [®] T2000 (4 GB GDDR6 dedicated) NVIDIA [®] Quadro RTX™ 3000 (6 GB GDDR6 dedicated)	Intel [®] UHD 630 / P630 Graphics AMD Radeon™ Pro WX 3200 (4 GB GDDR5 dedicated) NVIDIA [®] Quadro [®] P1000 (4 GB GDDR5 dedicated) NVIDIA [®] Quadro [®] P400 (2 GB GDDR5 dedicated) NVIDIA [®] Quadro [®] P620 (2 GB GDDR5 dedicated) NVIDIA [®] Quadro [®] P2200 (5 GB GDDR5X dedicated) High-end 3D: NVIDIA [®] Quadro RTX™ 4000 (8 GB GDDR6 dedicated) AMD Radeon™ Pro W5500 Graphics (8 GB GDDR5 dedicated) AMD Radeon™ Pro W5700 Graphics (8 GB GDDR5 dedicated) Ultra High-end 3D: NVIDIA [®] Quadro [®] RTX™ 5000 (16 GB GDDR6 dedicated) NVIDIA [®] Quadro [®] RTX™ 6000 (24 GB GDDR6 dedicated)
Maximum supported displays	4	6 (4 native + 2 additional with daisy chain)	5	6



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Z BY HP DESKTOPS (CONTINUED)

	Z1 G6	Z2 Mini G5	Z2 SFF G5	Z2 Tower G5
Internal storage ^{2,23,24,25}	Up to 2 TB PCIe® NVMe™ TLC M.2 SSD ⁹ Up to 512 GB PCIe® NVMe™ SED OP AL2 TLC M.2 SSD ⁹ Up to 512 GB PCIe® NVMe™ M.2 SSD ⁹ Up to 512 GB Intel® Optane™ Memory H10 with Solid State Storage ^{9,10} Up to 2 TB SATA HDD ⁹ 500 GB SATA SED OPAL 2 HDD ⁹ 500 GB SATA SED FIPS HDD ⁹	256 GB SATA SSD 500 GB up to 1 TB 7200 rpm SATA HDD 500 GB 7200 rpm OPAL 2 SATA HDD 2 TB 5400 rpm SATA HDD 256 GB up to 2 TB HP Z Turbo Drive PCIe® NVMe™ SSD M.2 256 GB HP Z Turbo Drive PCIe® NVMe™ OPAL 2 M.2 SSD 512 GB HP Z Turbo Drive PCIe® NVMe™ SED Opal 2 M.2 SSD 256 GB up to 1 TB PCIe® NVMe™ M.2 SSD	56 GB up to 2 TB SATA SSD 256 GB up to 2 TB HP Z Turbo Drive PCIe® SSD M.2 256 GB HP Z Turbo Drive PCIe® NVMe™ SED OPAL 2 M.2 SSD 512 GB HP Z Turbo Drive PCIe® NVMe™ SED Opal 2 M.2 SSD 500 GB up to 2 TB 7200 rpm SATA HDD 1 TB up to 8 TB 7200 rpm Enterprise SATA HDD 256 GB up to 1 TB PCIe® NVMe™ SSD 256 GB SATA SED OPAL2 SSD 512 GB SATA SED OPAL2 SSD	256 GB up to 2 TB SATA SSD 256 GB up to 2 TB HP Z Turbo Drive PCIe® NVMe™ SSD M.2 256 GB HP Z Turbo Drive PCIe® NVMe™ SED OPAL 2 M.2 SSD 512 GB HP Z Turbo Drive PCIe® NVMe™ SED OPAL 2 M.2 SSD 500 GB 7200 rpm SATA FIPS SED 500 GB up to 2 TB 7200 rpm SATA HDD 1 TB up to 8 TB 7200 rpm Enterprise SATA HDD 256 GB up to 1 TB PCIe® NVMe™ SSD 256 GB SATA SED OPAL2 SSD 512 GB SATA SED OPAL2 SSD
Optical + other storage	HP 9.5 mm Slim Blu-ray writer; HP 9.5 mm Slim DVD-ROM; HP 9.5 mm Slim DVD-Writer	N/A	HP 9.5 mm Slim Blu-ray writer; HP 9.5 mm Slim DVD-ROM; HP 9.5 mm Slim DVD-Writer	HP 9.5 mm Slim Blu-ray writer; HP 9.5 mm Slim DVD-ROM; HP 9.5 mm Slim DVD-Writer
Expansion slots	1 M.2 PCIe x1 2230 (WLAN); 2 M.2 PCIe x4 2280/2230 Combo (1 PCIe M.2 2230 slot for WLAN and 2 PCIe M.2 2280 slot for storage); 1 PCIe 3.0 x16; 1 PCIe 3.0 x16 (wired as x4); 2 PCIe 3.0 x1; 1 SD 5-in-1 media card reader	1 M.2 PCIe 3 x1	2 PCIe 3 x1 (x1 connector); 1 PCIe Gen 3 x16; 2 PCIe 3 x4 (x16 connector); 2 M.2 2280 PCIe Gen3 x4; 1 M.2 2230 WLAN (PCIe Gen3 x1)	1 PCIe 3 x4 (x16 connector); 1 PCIe Gen3 x16 (x16 connector); 2 PCIe 3 x1 (x4 connector); 2 M.2 2280 PCIe Gen3 x4; 1 M.2 2230 WLAN (PCIe Gen 3 x1)
Communications	ZBook Power G7, ZBook Fury 15 G7, and ZBook Fury 17 G7	LAN: Integrated Intel® I219LM GbE LOM WLAN: Intel® Wi-Fi 6 and Bluetooth® 5 Combo, vPro® / non-vPro®	LAN: Integrated Intel® I219-LM PCIe® GbE HP 10GbE SFP+ SR Transceiver Intel® I350-T2 dual-port GbE NIC Intel® I350-T4 4-port GbE NIC Intel® X710-DA2 2-Port 10GbE SFP+ NIC Intel® X550-T2 2-Port 10GbE NIC Aquantia AQN-108 1-Port 5GbE NIC WLAN: Intel® AX201 802.11 a/b/g/n/ac/ax WLAN + Bluetooth 5.0 M.2 NIC	LAN: Integrated Intel® I219-LM PCIe® GbE Intel® I350-T2 dual-port GbE NIC Intel® I350-T4 4-port GbE NIC Intel® X710-DA2 2-Port 10GbE SFP+ NIC HP 10GbE SFP+ SR Transceiver Intel® X550-T2 2-Port 10GbE NIC Aquantia AQN-108 1-Port 5GbE NIC WLAN: Intel® AX201 802.11 a/b/g/n/ac/ax WLAN + Bluetooth 5.0 M.2 NIC
Remote technology	HP ZCentral Remote Boost			
Dimensions	14.57 x 12.13 x 6.61 in 37.0 x 30.8 x 16.5 cm	8.5 x 8.5 x 2.28 in 21.6 x 21.6 x 5.8 cm	13.3 x 12.1 x 3.95 in 33.8 x 30.8 x 10 cm	14 x 6.7 x 15.2 in 35.6 x 16.9 x 38.5 cm
Starting weight	25 lb 11.34 kg (Exact weight depends on configuration)	4.6 lb 2.1 kg (Exact weight depends on configuration)	11.9 lb 5.4 kg (Exact weight depends on configuration)	15.43 lb 7 kg (Exact weight depends on configuration)



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Z BY HP DESKTOPS

	Z4 G4	Z6 G4	Z8 G4
Overview	HP's best-selling performance workstation	A future-proof powerhouse	The world's most powerful workstation
Operating systems ^{1,2,3,4}	Windows 10 Pro 64 for Workstations Windows 10 Pro 64; Windows 10 Pro (National Academic Plus); Windows 10 downgrade to Windows 7 Red Hat® Enterprise Linux® HP Installer Kit for Linux®	Windows 10 Pro 64 for Workstations Windows 10 downgrade to Windows 7 Red Hat® Enterprise Linux® HP Installer Kit for Linux®	Windows 10 Pro 64 for Workstations Windows 10 downgrade to Windows 7 Red Hat® Enterprise Linux® HP Installer Kit for Linux®
	<i>(HP Linux® Installer Kit includes drivers for 64-bit versions of Red Hat® Enterprise Linux® 7.4, SUSE Linux® Enterprise Desktop 12 and Ubuntu 16.04. Red Hat® Enterprise Linux® (1-year paper license only) and is available as a second operating system.)</i>		
Processor ^{6,7,8,9,10}	Intel® Xeon® W processor; Intel® Core™ X-Series processor	Intel® Xeon® Scalable processor	Intel® Xeon® Scalable processor
Chipset	Intel® C422; Intel® X299	Intel® C622	Intel® C622
Memory slots available	8 DIMM	12 DIMM	24 DIMM
Maximum memory ^{11,12}	256 GB DDR4-2666 ECC SDRAM (for Intel® Xeon® configurations) 128 GB DDR4-2666 non-ECC SDRAM (for Intel® Core™ X configurations) <i>(Transfer rates up to 2666 MT/s)</i>	384 GB DDR4-2666 ECC SDRAM <i>(Transfer rates up to 2666 MT/s)</i>	3 TB DDR4-2666 ECC SDRAM <i>(Transfer rates up to 2666 MT/s)</i>
Number of memory channels	Dual-channel	Dual-channel	Dual-channel
Graphics ^{17,18}	AMD FirePro™ W2100 AMD Radeon™ Pro WX 3100 AMD Radeon™ Pro WX 4100 AMD Radeon™ Pro WX 7100 AMD Radeon™ Pro WX 9100 NVIDIA® Quadro® P400 NVIDIA® Quadro® P620 NVIDIA® Quadro® P1000 NVIDIA® Quadro® P2000 NVIDIA® Quadro® P4000 NVIDIA® Quadro® P5000 NVIDIA® Quadro® P6000 NVIDIA® Quadro® GP100 NVIDIA® Quadro® GV100 NVIDIA® Quadro RTX™ 5000 NVIDIA® Quadro RTX™ 6000 HP VR Ready configurations available	AMD FirePro™ W2100 AMD Radeon™ Pro WX 3100 AMD Radeon™ Pro WX 4100 AMD Radeon™ Pro WX 7100 AMD Radeon™ Pro WX 9100 NVIDIA® Quadro® P400 NVIDIA® Quadro® P620 NVIDIA® Quadro® P1000 NVIDIA® Quadro® P2000 NVIDIA® Quadro® P4000 NVIDIA® Quadro® P5000 NVIDIA® Quadro® P6000 NVIDIA® Quadro® GP100 NVIDIA® Quadro RTX™ 4000 NVIDIA® Quadro RTX™ 5000 NVIDIA® Quadro RTX™ 6000 HP VR Ready configurations available	AMD FirePro™ W2100 AMD Radeon™ Pro WX 3100 AMD Radeon™ Pro WX 4100 AMD Radeon™ Pro WX 7100 AMD Radeon™ Pro WX 9100 Graphics NVIDIA® Quadro® P400 NVIDIA® Quadro® P620 NVIDIA® Quadro® P1000 NVIDIA® Quadro® P2000 NVIDIA® Quadro® P4000 NVIDIA® Quadro® P5000 NVIDIA® Quadro® P6000 NVIDIA® Quadro® GP100 NVIDIA® Quadro® GV100 NVIDIA® Quadro RTX™ 4000 NVIDIA® Quadro RTX™ 5000 NVIDIA® Quadro RTX™ 6000 HP VR Ready configurations available
Maximum supported displays	8	12	16
Drive controllers	Integrated SATA 6.0 Gb/s supporting RAID 0, 1, 5, 10 Optional SAS controller supporting RAID, 0, 1, 10 for SAS drives	Integrated SATA 6.0 Gb/s Factory integrated RAID available for SATA/SAS drives (RAID 0, 0 Data, 1, 5, and 10)	Integrated SATA 6.0 Gb/s Factory integrated RAID available for SATA/SAS drives (RAID 0, 0 Data, 1, 5, and 10)



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Internal storage ^{22,23,26,27}	Up to (4) 2.5-inch 15000 rpm SAS: 300 GB: 1.2 TB max Up to (4) 3.5-inch 7200 rpm SATA: 500 GB, 1/2 TB: 8 GB max Up to (4) 2.5-inch 7200 rpm SATA SED: 500 GB: 2 TB max Up to (4) 2.5-inch 7200 rpm SATA Enterprise 7200 rpm: 1/4 TB: 16 TB max Up to (4) 2.5-inch SATA SSD: 256/512 GB, 1/2 TB: 8 TB max Up to (4) 2.5-inch SATA SED SSD: 256/512 GB: 2.048 TB max Up to (4) 2.5-inch SATA Enterprise SSD: 240/480 GB: 1.92 TB max Up to (2) M.2 HP Z Turbo Drive PCIe [®] NVMe™ SSD: 256/512 GB, 1 TB: 2 TB max Up to (2) M.2 HP Z Turbo Drive PCIe [®] TLC NVMe™ SSD: 256/512 GB: 1.024 TB max Up to (2) M.2 HP Z Turbo Drive PCIe [®] NVMe™ SED SSD: 256/512 GB: 1.024 TB max Up to (2) M.2 HP Z Turbo Drive Quad Pro PCIe [®] SSD: 2-4x256 GB, 2-4x512 GB, 2-4x1 TB Modules: 8 TB max	Up to (4) 2.5-inch 15000 rpm SAS: 300 GB: 1.2 TB max Up to (4) 3.5-inch 7200 rpm SATA: 500 GB, 1/2 TB: 8 GB max Up to (4) 2.5-inch 7200 rpm SATA SED: 500 GB: 2 TB max Up to (4) 2.5-inch 7200 rpm SATA Enterprise 7200 rpm: 1/4 TB: 16 TB max Up to (4) 2.5-inch SATA SSD: 256/512 GB, 1/2 TB: 8 TB max Up to (4) 2.5-inch SATA SED SSD: 256/512 GB: 2.048 TB max Up to (4) 2.5-inch SATA Enterprise SSD: 240/480 GB: 1.92 TB max Up to (2) M.2 HP Z Turbo Drive PCIe [®] NVMe™ SSD: 256/512 GB, 1 TB: 2 TB max Up to (2) M.2 HP Z Turbo Drive PCIe [®] TLC NVMe™ SSD: 256/512 GB: 1.024 TB max Up to (2) M.2 HP Z Turbo Drive PCIe [®] NVMe™ SED SSD: 256/512 GB: 1.024 TB max Up to (2) M.2 HP Z Turbo Drive Quad Pro PCIe [®] SSD: 2-4x256 GB, 2-4x512 GB, 2-4x1 TB Modules: 8 TB max	Up to (6) 2.5-inch 15000 rpm SAS: 300 GB: 1.8 GB max Up to (6) 3.5-inch SATA 7200 rpm: 500 GB, 1/2 TB: 12 GB max Up to (6) 2.5-inch 7200 rpm SATA SED: 500 GB: 3 TB max Up to (6) 2.5-inch 7200 rpm SATA Enterprise 7200 rpm: 1/4 TB: 24 TB max Up to (6) 2.5-inch SATA SSD: 256/512 GB, 1/2 TB: 12 TB max Up to (6) 2.5-inch SATA SED SSD: 256/512 GB: 3.072 TB max Up to (6) 2.5-inch SATA Enterprise SSD: 240/480 GB: 2.88 TB max Up to (4) M.2 HP Z Turbo Drive PCIe [®] NVMe™ SSD: 256/512 GB, 1 TB: 4 TB max Up to (4) M.2 HP Z Turbo Drive PCIe [®] TLC NVMe™ SSD: 256/512 GB: 2.048 TB max Up to (4) M.2 HP Z Turbo Drive PCIe [®] NVMe™ SED SSD: 256/512 GB: 2.048 TB max Up to (2) M.2 HP Z Turbo Drive Quad Pro PCIe [®] SSD: 2-4x256 GB, 2-4x512 GB, 2-4x1 TB Modules: 8 TB max
Optical + other storage ^{28,29}		HP Slim DVD-ROM; HP Slim Blu-ray Writer; HP Slim DVD-Writer HP SD 4 Media Card Reader (optional)	
Expansion slots	Intel® Xeon® 2 PCIe 3 x16 1 PCIe 3 x8 2 PCIe 3 x4 2 M.2 PCIe 3 x4 Intel® Core™ i9-X config 2 PCIe x16 1 PCIe x8 2 PCIe 3 x4, 1 M.2 PCIe 3 x4 Intel® Core™ i7-X config: 1 PCIe x16 1 PCIe x16 (x8 electrical) 1 PCIe x8 (mechanical only) 2 PCIe 3 x4, 1 M.2 PCIe 3 x4	3 PCIe x4 1 PCIe x8 2 PCIe x16 2 M.2 PCIe x4 Slot 1: CPU with open-ended connector. Slots 1 and 2: CPU up to 80 mm storage devices.) Slots 3 and 6: PCH with open-ended connector. Slot 4: CPU with open-ended connector (slot converts to x4 electrical when SSD is installed in 2nd M.2 slot.)	2 PCIe x4 3 PCIe x8 4 PCIe x16 (1 PCIe x8 has rear bulkhead access and 2 PCIe x8 are internal access only.) Slot 1: Transforms to PCIe x8 when 2nd CPU is installed. Slots 3 and 6: are available only when 2nd processor is installed. PCIe x16 available only when 2nd processor is installed.



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	Z4 G4	Z6 G4	Z8 G4
Communications ^{31, 32, 33}	Integrated Intel® I210-AT PCIe® GbE Integrated Intel® I219-LM PCIe® GbE Intel® 10GbE SFP+ SR transceiver Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro® Intel® I210-T1 PCIe® GbE Intel® I210-T1 PCIe® GbE Intel® I350-T2 dual-port GbE NIC Intel® I350-T4 dual-port GbE NIC Intel® X550-T2 dual-port GbE NIC Intel® X710-DA2 dual-port GbE NIC	Integrated Intel® I219-LM PCIe® GbE Integrated Intel® X722 PCIe® GbE Intel® I350-T2 dual-port GbE NIC Intel® I350-T4 dual-port GbE NIC Intel® I210-T1 PCIe® GbE Intel® X550-T2 dual-port GbE NIC Intel® X710-DA2 dual-port GbE NIC Intel® 10GbE SFP+ SR transceiver HP dual-port 10 GBase-T NIC Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro®	Integrated Intel® I219-LM PCIe® GbE Integrated Intel® X722 PCIe® GbE Intel® I350-T2 dual-port GbE NIC Intel® I350-T4 dual-port GbE NIC Intel® I210-T1 PCIe® GbE Intel® X550-T2 dual-port GbE NIC Intel® X710-DA2 dual-port GbE NIC Intel® 10GbE SFP+ SR transceiver HP dual-port 10 GBase-T NIC Intel® Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 4.2 Combo, non-vPro®
Remote technology ³⁶	HP Remote Graphics Software (HP RGS)	HP Remote Graphics Software (HP RGS)	HP Remote Graphics Software (HP RGS)
Dimensions	15.2 x 6.65 x 17.5 in 38.6 x 16.9 x 44.5 cm	6.65 x 18.3 x 17.5 in 16.9 x 46.5 x 44.5 cm	8.5 x 21.7 x 17.5 in 21.59 x 55.12 x 44.45 cm
Starting weight	22.4 lb 10.2 kg	29 lb 13.1 kg	49.4 lb 22.4 kg



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Z BY HP LAPTOPS FOR ON THE GO PROFESSIONALS

	ZBook 14u G6	ZBook 15u G6	ZBook Firefly 14 G7	ZBook Firefly 15 G7
Overview	Performance travels light in the world's smallest 14" mobile workstation	Workstation power. World-class security. Thin, light design	ZBook performance, more mobile than ever	HP's lightest ever 15" mobile workstation
Operating systems ^{1,5}	Windows 10 Pro 64 Windows 10 Home 64 ¹ Windows 10 Home Single Language 64 ¹ Windows 10 Pro 64 ¹ Windows 10 China Government Editions ¹ FreeDOS 3.0	Windows 10 Pro 64 ¹ Windows 10 Home 64 ¹ Windows 10 Home Single Language 64 ¹ Windows 10 China Government Editions ¹ FreeDOS 3.0	Windows 10 Pro 64 Windows 10 Home 64 Windows 10 Pro for Workstations 64 FreeDOS 3.0	Windows 10 Pro 64 Windows 10 Home 64 Windows 10 Pro for Workstations 64 FreeDOS 3.0
Processor ⁶	8th Generation Intel® Core™ i7 processor (i7-8650U, i7-8550U) 8th Generation Intel® Core™ i5 (i5-8350U, i5-8250U)		10th Generation Intel® Core™ i7 processor (i7-10810U, i7-10610U, i7-10510U); 10th Generation Intel® Core™ i5 processor (i5-10310U, i5-10210U)	
Chipset	Integrated with processor			
Memory slots available	2 SODIMM		Memory is soldered down	
Maximum memory ¹³	32 GB DDR4-2400 non-ECC SDRAM (Transfer rates up to 2400 MT/s with 8th Gen processors) (Transfer rates up to 2133 MT/s with 7th Gen processors)		64 GB DDR4-266 non-ECC SDRAM (integrated graphics) 32 GB DDR4-266 non-ECC SDRAM (discrete graphics)	64 GB DDR4-2666 non-ECC SDRAM
Number of memory channels	Dual-channel			
Graphics ^{14,15,16}	Integrated: Intel® HD Graphics 620 (for 7th Gen processors) Discrete: AMD Radeon™ Pro WX 3200 (4 GB GDDR5 video memory)		Intel® UHD Graphics NVIDIA® Quadro® P520 (4 GB GDDR5)	
Display options ¹⁹	<p>Non-touch:</p> <ul style="list-style-type: none"> HP Sure View Integrated Privacy Display Gen3 14" diagonal FHD IPS eDP + PSR anti-glare, 100% sRGB at 950 nits (1920 x 1080) 14" diagonal UHD IPS eDP + PSR anti-glare, 100% sRGB at 400 nits with ambient light sensor (3840 x 2160) 14" diagonal FHD IPS eDP + PSR anti-glare, 100% sRGB at 400 nits with ambient light sensor (1920 x 1080) 14" diagonal FHD IPS eDP anti-glare, 67% sRGB at 250 nits (1920 x 1080) <p>Touch:</p> <ul style="list-style-type: none"> 14" diagonal FHD IPS eDP touch screen with Corning® Gorilla® Glass 3, 67% sRGB at 250 nits (1920 x 1080) HP Sure View Integrated Privacy Display Gen3 14" diagonal FHD IPS eDP + PSR touch screen with Corning® Gorilla® Glass 3, 100% sRGB at 900 nits (1920 x 1080) 	<p>Non-touch:</p> <ul style="list-style-type: none"> HP Sure View Integrated Privacy Display (15.6") diagonal FHD IPS eDP + PSR anti-glare, 100% sRGB at 700 nits (1920 x 1080) 15.6" diagonal UHD IPS eDP + PSR anti-glare, 100% sRGB at 400 nits with ambient light sensor (3840 x 2160)^{2,3,4,5} 15.6" diagonal FHD IPS eDP + PSR anti-glare, 100% sRGB at 400 nits with ambient light sensor (1920 x 1080) 15.6" diagonal FHD IPS eDP anti-glare, 67% sRGB at 250 nits (1920 x 1080) <p>Touch:</p> <ul style="list-style-type: none"> 15.6" diagonal FHD IPS eDP touch screen with Corning Gorilla Glass 3, 67% sRGB at 250 nits (1920 x 1080) 	<ul style="list-style-type: none"> 14" diagonal FHD IPS eDP + PSR anti-glare, 100% sRGB, 400 nits with ambient light sensor (1920 x 1080) 14" diagonal FHD, IPS, anti-glare, eDP, 250 nits, 45% NTSC (1920 x 1080) 14" diagonal FHD, IPS, touch screen, eDP, 250 nits, 45% NTSC (1920 x 1080) 14" diagonal FHD, IPS, anti-glare, eDP + PSR, with HP SureView Reflect integrated privacy screen, 1000 nits, 72% NTSC (1920 x 1080) 14" diagonal 4K UHD, IPS, HDR-400, anti-glare, eDP 1.4 + PSR with ambient light sensor, 550 nits, 95% sRGB (3840 x 2160) 	<ul style="list-style-type: none"> 15.6" diagonal FHD IPS eDP + PSR anti-glare, 100% sRGB at 400 nits with ambient light sensor (1920 x 1080) 15.6" diagonal 4K UHD IPS eDP + PSR anti-glare, 100% sRGB, 400 nits with ambient light sensor (3840 x 2160) 15.6" diagonal FHD, IPS, anti-glare, touch screen, eDP, 250 nits, 45% NTSC (1920 x 1080) 15.6" diagonal FHD, IPS, anti-glare, eDP, 250 nits, 45% NTSC (1920 x 1080)
Maximum supported displays	Up to 3 independent displays via internal LCD Panel, system HDMI, system Thunderbolt™ 3, or using the HP Thunderbolt Dock G2 with DisplayPort™ or Thunderbolt™ 3		NVIDIA® Quadro® mobile graphics support up to four independent displays when using a HP Thunderbolt Dock G2 (sold separately)	
Drive controllers	SATA-3 for Solid State Drive PCIe Gen 3 x 4 lanes NVMe Solid State Drive			
Internal storage ²²	M.2 SATA Solid State Drive 128 GB SATA Solid State Drive 512 GB SATA FIPS-140-2 Solid State Drive HP Z Turbo Drive (NVMe PCIe SSD) 256 GB PCIe (NVMe) TLC Self Encrypting (SED) Solid State Drive 512 GB PCIe (NVMe) TLC Self Encrypting (SED) Solid State Drive 256 GB PCIe (NVMe) Solid State Drive 2 TB PCIe (NVMe) Solid State Drive		256 GB up to 2 TB PCIe® Gen 3 x 4 NVMe™ M.2 SSD	
Optical + other storage	N/A			



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Z BY HP LAPTOPS FOR ON THE GO PROFESSIONALS (CONTINUED)

	ZBook 14u G6	ZBook 15u G6	ZBook Firefly 14 G7	ZBook Firefly 15 G7
Communications ^{1,2,3,5}	Integrated Intel® I219-LM GbE, vPro® Integrated Intel® I219-V GbE, non-vPro® Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5 Combo, vPro® Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5 Combo, non-vPro® Intel® Dual Band Wireless 6 AX200 802.11ax (2x2) Wi-Fi® and Bluetooth® 5.0 Combo, vPro® Intel® Dual Band Wireless 6 AX200 802.11ax (2x2) Wi-Fi® and Bluetooth® 5.0 Combo, non-vPro®	Intel® XMM™ 7262 LTE-Advanced Intel® XMM™ 7360 LTE-Advanced Intel® XMM™ 7560 LTE-Advanced	Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo, vPro®; Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo, non-vPro®	
Expansion slots			1 smart card reader	
Remote technology ⁶	HP Remote Graphics Software (HP RGS)		HP ZCentral Remote Boost	
Dimensions	12.84 x 9.22 x 0.71 in 32.6 x 23.43 x 1.79 cm	14.6 x 9.91 x 0.72 in 37.08 x 25.1 x 1.86 cm	12.73 x 8.45 x .71 in 32.3 x 21.46 x 1.79 cm	14.15 x 9.19 x .76 in 35.95 x 23.36 x 1.92 cm
Starting weight	3.27 lb 1.48 kg	3.89 lb 1.77 kg	2.96 lb / 1.34 kg	3.74 lb / 1.7 kg



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Z BY HP LAPTOPS FOR CREATIVE PROS

	ZBook Studio x360 G5	ZBook Studio G5	ZBook Studio G7	ZBook Create G7
Overview	HP's most powerful convertible PC	Smaller, faster, and brighter than ever	The ultimate, no compromise development tool	Great for creative pro work and gaming
Operating systems ^{1,5}	Windows 10 Pro 64 Windows 10 Pro for Workstations Windows 10 Home 64 Plus FreeDOS 2.0		Windows 10 Pro 64 Windows 10 Home 64 Windows 10 Pro for Workstations 64 Ubuntu 20.04 FreeDOS 3.0	
Processor ⁶	Intel® Xeon® E3 processor (E3-2176M, E3-2186M) 8th Generation Intel® Core™ i7 processor (i7-8750H, i7-8850H) 8th Generation Intel® Core™ i5 processor (i5-8300H, i5-8400H)		10th Generation Intel® Core™ i7 Processor (i7-10750H); Intel® Xeon® processor (W-10885M); 10th Generation Intel® Core™ i9 processor (i9-10885H); 10th Generation Intel® Core™ i7 processor (i7-10850H); 10th Generation Intel® Core™ i5 processor (i5-10400H)	
Chipset	Mobile Intel® CM246		Intel® WM490	Intel® WM490
Memory slots available	2 SODIMM		Memory is soldered down	Memory is soldered down
Maximum memory ^{11,13}	32 GB DDR4-2667 ECC/non-ECC SDRAM (Transfer rates up to 2666 MT/s) Non-ECC memory only available with Intel® Core™ processors. ECC memory only available with Intel® Xeon® processor		32 GB DDR4-2667 non-ECC SDRAM; 32 GB DDR4-2933 non-ECC SDRAM (RTX Graphics configuration only)	32 GB DDR4-2933 non-ECC SDRAM
Number of memory channels	Dual-channel		Dual Channel	
Graphics ^{14,15,16}	Intel® UHD Graphics 630 Intel® UHD Graphics P630 NVIDIA® Quadro® P1000		Intel® UHD Graphics NVIDIA® Quadro® T1000 NVIDIA® Quadro® T2000 NVIDIA® Quadro RTX™ 3000 NVIDIA® Quadro RTX™ 4000 NVIDIA® Quadro RTX™ 5000	NVIDIA® GeForce® RTX 2070 NVIDIA® GeForce® RTX 2070 SUPER™ NVIDIA® GeForce® RTX 2080 SUPER™
Display options ^{19,20,21}	15.6" diagonal FHD IPS eDP LED-backlit touch screen with ambient light sensor (1920 x 1080) 15.6" diagonal 4K IPS eDP LED-backlit touch screen with ambient light sensor (3840 x 2160) HP Sure View 15.6" diagonal FHD IPS LED-backlit touch screen (1920 x 1080) HP DreamColor 15.6" diagonal 4K IPS LED-backlit anti-glare touch screen (3840 x 2160)	15.6" diagonal FHD IPS eDP anti-glare LED-backlit with ambient light sensor (1920 x 1080) 15.6" diagonal 4K IPS eDP anti-glare LED-backlit with ambient light sensor (3840 x 2160) HP Sure View 15.6" diagonal FHD IPS anti-glare LED-backlit with ambient light sensor (1920 x 1080) HP DreamColor 15.6" diagonal 4K IPS anti-glare LED-backlit (3840 x 2160)	15.6" diagonal FHD, IPS, eDP + PSR anti-glare, low power, 400 nits, 100% sRGB (1920 x 1080) Next Gen HP DreamColor 15.6" diagonal 4K UHD, IPS, HDR 400, eDP + PSR anti-glare, 600 nits, 100% DCI P3 (3840 x 2160) 15.6" diagonal 4K UHD, UWVA, HDR 500 True Black, eDP + PSR, Brightview, OLED with ambient light sensor, 400 nits, 100% DCI P3 (3840 x 2160) 15.6" diagonal FHD, IPS, eDP + PSR, anti-glare, HP Sure View Reflect integrated privacy screen, 1000 nits, 72% NTSC (1920 x 1080)	
Maximum supported displays	NVIDIA® Quadro® mobile professional graphics support up to four independent displays when using an HP Thunderbolt Dock G2 (sold separately)		NVIDIA® Quadro® and NVIDIA® GeForce® mobile graphics support up to four independent displays when using an HP Thunderbolt® Dock G2 (sold separately)	
Drive controllers	SATA 3.0 SSD PCIe® NVMe™ SSD		PCIe® Gen 3 x 4 NVMe™ M.2 SSD	PCIe® Gen 3 x 4 NVMe™ M.2 SSD
	ZBook Studio x360 G5	ZBook Studio G5	ZBook Studio G7	ZBook Create G7



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Z BY HP LAPTOPS FOR CREATIVE PROS (CONTINUED)

Internal storage ²²	Up to (1) 2.5-inch SATA SSD: 256 GB, 1 TB: 1 TB max Up to (2) M.2 SATA SED SSD: 256 GB: 512 GB max Up to (2) M.2 SATA FIPS 140-2: 512 GB: 1.024 TB max Up to (2) M.2 PCIe® NVMe™ SSD: 256/360/512 GB, 1/2 TB: 4 TB max Up to (2) M.2 PCIe® NVMe™ SED SSD: 256/512 GB: 1.024 TB max	Up to (1) 2.5-inch 5400 rpm SATA: 2 TB: 2 TB max Up to (1) 2.5-inch 7200 rpm SATA: 500 GB, 1 TB: 1 TB max Up to (1) 2.5-inch 7200 rpm SATA SED: 500 GB max Up to (1) 2.5-inch 7200 rpm SATA FIPS 140-2 SED: 500 GB: 500 GB max Up to (1) 2.5-inch 5400 rpm SATA SSHD: 500 GB, 1/2 TB: 2 TB max Up to (1) 2.5-inch SATA SSD: 256 GB, 1 TB: 1 TB max Up to (2) M.2 SATA SED SSD: 256 GB: 512 GB max Up to (2) M.2 SATA FIPS 140-2 SSD: 512 GB: 1.024 TB max Up to (2) M.2 PCIe® NVMe™ SSD: 256/360/ 512 GB, 1/2 TB: 4 TB max Up to (2) M.2 PCIe® NVMe™ SED SSD: 256/512 GB: 1.024 TB max	256 GB up to 4 TB PCIe® Gen 3 x 4 NVMe™ M.2 SSD 512 GB PCIe® NVMe™ M.2 SED SSD
Optical + other storage ^{24,25}	N/A	16 GB Intel® Optane™ Flash Cache	N/A
Communications ^{31,34}	Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo, vPro® Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo, non-vPro® HP lt4132 LTE/HSPA+ 4G Mobile Broadband Module Intel® XMM™ 7360 LTE Advanced Near Field Communication (NFC) module	Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo, vPro® Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo, non-vPro® Near Field Communication (NFC) module	Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo, vPro®, Intel® Wi-Fi 6 AX201 (2x2) and Bluetooth® 5 combo, non-vPro®
Expansion slots	1 UHS-II SD card reader (SD supports next generation secure digital and is backward compatible to SDHC, SDXC)	1 SD 4.0 media card reader (SD 4.0 supports next generation secure digital and is compatible to SD, SDHC, SDXC, SDUC media)	
Remote technology ³⁶	HP Remote Graphics Software (HP RGS)	HP ZCentral Remote Boost	
Dimensions	14.17 x 9.65 x 0.80 in 36 x 25.4 x 2.04 cm	14.17 x 9.65 x 0.74 in 36 x 25.4 x 1.89 cm	Non-Touch 13.93 x 9.24 x .70 in 35.4 x 23.46 x 1.79 cm Touch 13.93 x 9.24 x .69 in 35.4 x 23.46 x 1.75 cm
Starting weight	4.99 lb 2.22 kg	4.4 lb 2.00 kg	3.96 lb 1.79 kg 4.37 lb 1.98 kg



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Z BY HP LAPTOPS FOR PERFORMANCE USERS

	ZBook 15v G5	ZBook 15 G5	ZBook 17 G5
Overview	Affordable performance	Portable powerhouse	Ultimate mobile performance
Operating systems ^{1,5}	Windows 10 Pro 64 Windows 10 Pro for Workstations; Windows 10 Home 64; FreeDOS 2.0	Windows 10 Pro for Workstations; Windows 10 Home 64	Windows 10 Pro 64
Processor ^{6,8,9}	Intel® Xeon® E3 processor (E3-2176M); 8th Generation Intel® Core™ i7 processor (i7-8750H, i7-8850H); 8th Generation Intel® Core™ i5 processor (i5-8300H, i5-8400H)	Intel® Xeon® E3 processor (E3-2176M, E3-2186M) 8th Generation Intel® Core™ i7+ processor (Core i7+ and Intel® Optane™ memory) (i7-8750H, i7-8850H) 8th Generation Intel® Core™ i5+ processor (Core i5+ and Intel® Optane™ memory) (i5-8300H, i5-8400H)	
Chipset		Mobile Intel® CM246	
Memory slots available	2 SODIMM		4 SODIMM
Maximum memory ^{11,13}	32 GB DDR4-2667 ECC/non-ECC SDRAM (Transfer rates up to 2666 MT/s) ECC memory only available with Intel® Xeon® processors	64 GB DDR4-2667 ECC/non-ECC SDRAM (Transfer rates up to 2666 MT/s) ECC memory only available with Intel® Xeon® processors	
Number of memory channels		Dual-channel	
Graphics ^{14,15,16}	Intel® UHD Graphics P630 NVIDIA® Quadro® P600 UMA graphics only available with Intel® Core™ processors Discrete Graphics only available with Intel® Xeon® processors	Intel® UHD Graphics P630 (Intel® Xeon® processors only) Intel® UHD Graphics 630 (Intel® Core™ processors only) AMD Radeon™ Pro WX 4150 NVIDIA® Quadro® P1000 NVIDIA® Quadro® P2000	Intel® UHD Graphics P630 (Intel® Xeon® processors only) Intel® UHD Graphics 630 (Intel® Core™ processors only) AMD Radeon™ Pro WX 4170 NVIDIA® Quadro® P1000 NVIDIA® Quadro® P2000 NVIDIA® Quadro® P3200 NVIDIA® Quadro® P4200 NVIDIA® Quadro® P5200
Display options ^{19,20,21}	15.6" diagonal FHD anti-glare LED-backlit (1920 x 1080); 15.6" diagonal FHD anti-glare LED-backlit touchscreen (1920 x 1080); 15.6" diagonal 4K anti-glare LED-backlit (3840 x 2160)	15.6" diagonal FHD IPS eDP anti-glare LED-backlit (1920 x 1080); 15.6" diagonal FHD IPS eDP anti-glare LED-backlit ambient light sensor (1920 x 1080); 15.6" diagonal 4K IPS eDP LED-backlit touch screen ambient light sensor (3840 x 2160); 15.6" diagonal 4K IPS eDP anti-glare LED-backlit ambient light sensor (3840 x 2160); HP Sure View 15.6" diagonal FHD eDP LED-backlit touch screen (1920 x 1080) HP DreamColor 15.6" diagonal 4K IPS anti-glare LED-backlit (3840 x 2160)	17.3" diagonal HD SVA eDP anti-glare LED-backlit (1600 x 900); 17.3" diagonal FHD IPS eDP anti-glare LED-backlit ambient light sensor (1920 x 1080); 17.3" diagonal 4K IPS eDP LED-backlit touch screen ambient light sensor (3840 x 2160); HP DreamColor 17.3" diagonal 4K IPS anti-glare LED-backlit (3840 x 2160)
Maximum supported displays	NVIDIA® Quadro® mobile professional graphics support up to four independent displays when using a HP Thunderbolt Dock G2 (sold separately).	AMD Radeon™ Pro professional graphics support up to six displays when using a HP Thunderbolt Dock G2 (sold separately). NVIDIA® Quadro® mobile professional graphics support up to four independent displays when using a HP Thunderbolt Dock G2 (sold separately).	AMD Radeon™ Pro professional graphics support up to six displays when using an HP Thunderbolt Dock G2 (sold separately). NVIDIA® Quadro® mobile professional graphics support up to four independent displays when using a HP Thunderbolt Dock G2 (sold separately).
Drive controllers		SATA 3.0 SSD PCIe NVMe SSD	



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Z BY HP LAPTOPS FOR PERFORMANCE USERS (CONTINUED)

	ZBook 15v G5	ZBook 15 G5	ZBook 17 G5
Internal storage ²²	Up to (1) 2.5-inch 5400 rpm SATA: 2 TB: 2 TB max Up to (1) 2.5-inch 7200 rpm SATA: 500 GB, 1 TB: 1 TB max Up to (1) 2.5-inch 7200 rpm SATA SED: 500 GB: 500 GB max Up to (1) 2.5-inch 7200 rpm SATA SED: 500 GB: 500 GB max Up to (1) 2.5-inch 5400 rpm SATA SSHD: 500 GB, 1/2 TB: 2 TB max Up to (1) 2.5-inch SATA SSD: 256 GB, 1 TB: 1 TB max Up to (1) M.2 SATA SED SSD: 256 GB: 256 GB max Up to (1) M.2 PCIe® NVMe™ SSD: 256/512 GB, 1/2 TB: 2 TB max Up to (1) M.2 PCIe® NVMe™ SED SSD: 256/512 GB: 512 GB max	Up to (1) 2.5-inch 5400 rpm SATA: 2 TB: 2 TB max Up to (2) 2.5-inch 7200 rpm SATA: 500 GB, 1 TB: 1 TB max Up to (1) 2.5-inch 7200 rpm SATA SED: 500 GB: 500 GB max Up to (1) 2.5-inch 7200 rpm SATA FIPS 140-2 SED: 500 GB: 500 GB max Up to (1) 2.5-inch 5400 rpm SATA SSHD: 500 GB, 1/2 TB: 2 TB max Up to (1) 2.5-inch SATA SSD: 256 GB, 1 TB: 1 TB max Up to (2) M.2 SATA SED SSD: 256 GB: 512 GB max Up to (2) M.2 SATA FIPS 140-2 SED: 512 GB: 1.024 TB max Up to (2) M.2 PCIe® NVMe™ SSD: 256/360/512 GB, 1/2 TB: 4 TB max Up to (2) M.2 PCIe® NVMe™ SED SSD: 256/512 GB: 1.024 TB max	Up to (2) 2.5-inch 5400 rpm SATA: 2 TB: 4 TB max Up to (2) 2.5-inch 7200 rpm SATA: 500 GB, 1 TB: 2 TB max Up to (2) 2.5-inch 7200 rpm SATA SED: 500 GB: 1 TB max Up to (2) 2.5-inch 7200 rpm SATA FIPS 140-2 SED: 500 GB: 1 TB max Up to (2) 2.5-inch 5400 rpm SATA SSHD: 500 GB, 1/2 TB: 4 TB max Up to (2) 2.5-inch SATA SSD: 256 GB, 1 TB: 2 TB max Up to (3) M.2 SATA SED SSD: 256 GB: 768 GB max Up to (3) M.2 SATA FIPS 140-2 SED: 512 GB: 1.536 TB max Up to (3) M.2 PCIe® NVMe™ SSD: 256/360/521 GB, 1/2 TB: 6 TB max Up to (3) M.2 PCIe® NVMe™ SED SSD: 256/512 GB: 1.536 TB max
Optical + other storage ^{24,25,28,29}	N/A	Intel® Optane™ 16 GB Flash Cache	Intel® Optane™ 16 GB Flash Cache Optical Disk Drive Blu-ray player DVD-writer
Communications ^{31,34}	Integrated Intel® I219-LM GbE Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo, vPro® Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo, non-vPro®	Integrated Intel® I219-LM GbE; Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo, vPro® Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo, non-vPro® HP It4132 LTE/HSPA+ 4G Mobile Broadband Module Intel® XMM™ 7360 LTE Advanced Near Field Communication (NFC) module	Integrated Intel® I219-LM GbE; Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo, vPro® Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) Wi-Fi® and Bluetooth® 5.0 Combo, non-vPro® HP It4132 LTE/HSPA+ 4G Mobile Broadband Module Intel® XMM™ 7360 LTE Advanced Near Field Communication (NFC) module
Expansion slots	1 UHS-II SD card reader (SD supports next generation secure digital and is backward compatible to SDHC, SDXC)	1 Smart card reader 1 UHS-II SD card reader (SD supports next generation secure digital and is backward compatible to SDHC, SDXC)	1 Smart card reader 1 UHS-II SD card reader (SD supports next generation secure digital and is backward compatible to SDHC, SDXC)
Remote technology ³⁶		HP Remote Graphics Software (HP RGS)	
Dimensions	14.37 x 10.10 x 1 in 36.50 x 25.65 x 2.54 cm	14.8 x 10.4 x 1 in 37.6 x 26.4 x 2.60 cm	16.4 x 11.3 x 1.3 in 41.60 x 28.8 x 3.38 cm
Starting weight	4.77 lb 2.17 kg	5.79 lb 2.60 kg	7.0 lb 3.2 kg



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Z BY HP LAPTOPS FOR PERFORMANCE USERS

	ZBook Power G7	ZBook Fury 15 G7	ZBook Fury 17 G7
Overview	HP's most affordable mobile workstation	The world's most expandable 15" mobile workstation	The world's smallest 17" mobile workstation with RTX 5000
Operating System	Windows 10 Pro 64 Windows 10 Home 64 Windows 10 Pro for Workstations 64 FreeDOS 3.0		
Processor	10th Generation Intel® Core™ i5, i7, i9, Xeon® & processor		
Chipset	Intel® WM490		
Memory slots available	Memory is soldered down	Memory is soldered down	Memory is soldered down
Maximum memory	64 GB DDR4-3200 non-ECC SDRAM; 32 GB DDR4-2666 ECC		128 GB DDR4-2667 non-ECC SDRAM; 64 GB DDR4-2667 ECC
Number of memory channels	Single Channel		Dual Channel
Graphics	Intel® UHD Graphics NVIDIA® Quadro® T620 (4 GB) NVIDIA® Quadro® T1000 (4 GB) NVIDIA® Quadro® T2000 (4 GB)		Intel® UHD Graphics AMD Radeon™ RX 5500M (4 GB) AMD Radeon™ Pro W5500M (4 GB) NVIDIA® Quadro® T1000 (4 GB) NVIDIA® Quadro® T2000 (4 GB) NVIDIA® Quadro RTX™ 3000 (6 GB) NVIDIA® Quadro RTX™ 4000 (8 GB) NVIDIA® Quadro RTX™ 5000 (16 GB)
Display options	15.6" diagonal, FHD (1920 x 1080), touch, IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC 15.6" diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 400 nits, low power, 100% sRGB 15.6" diagonal, 4K UHD (3840 x 2160), IPS, narrow bezel, anti-glare, 400 nits, low power, 100% sRGB 15.6" diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC	15.6" diagonal, FHD (1920 x 1080), IPS, anti-glare, 250 nits, 45% NTSC 15.6" diagonal, FHD (1920 x 1080), IPS, anti-glare, 400 nits, 72% NTSC 15.6" diagonal, FHD (1920 x 1080), IPS, anti-glare, 1000 nits, 72% NTSC, HP Sure View Reflect integrated privacy screen 15.6" diagonal, 4K UHD (3840 x 2160), touch, IPS, anti-reflection Corning® Gorilla® Glass 5, 600 nits, 100% DCI-P3 15.6" diagonal, 4K UHD (3840 x 2160), IPS, anti-glare, 600 nits, 100% DCI-P3, Next Gen HP DreamColor	17.3" diagonal FHD eDP anti-glare WLED-backlit and ambient light sensor 300 nits 72% sRGB (1920 x 1080) 17.3" diagonal, 4K UHD (3840 x 2160), IPS, anti-glare, 550 nits, 100% DCI-P3 17.3" diagonal, 4K UHD (3840 x 2160), IPS, 550 nits, 100% DCI-P3 17.3" diagonal, 4K UHD (3840 x 2160), IPS, anti-glare, 550 nits, 100% DCI-P3, Next Gen HP DreamColor
Maximum displays supported	NVIDIA® Quadro® mobile graphics support up to four independent displays when using a HP Thunderbolt Dock G2 (sold separately)		
Drive controllers			
Internal storage			
Optical + other storage	N/A	N/A	N/A
Communications	Intel® Wi-Fi® 6 AX201 (2x2) and Bluetooth® 5 combo, vPro®; Intel® Wi-Fi® 6 AX201 (2x2) and Bluetooth® 5 combo, non-vPro®		
Expansion slots	1 Smart Card Reader		1 Smart card reader; 1 SD 4.0 media card reader
Remote technology	HP ZCentral Remote Boost		
Dimensions	14.15 x 9.21 x 0.9 in 35.94 x 23.39 x 2.86 cm	14.06 x 9.55 x 1.02 in 35.7 x 24.25 x 2.59 cm	15.69 x 10.52 x 1.06 in 39.84 x 26.71 x 2.69 cm
Starting weight	4.16 lb; 1.89 kg	5.18 lb; 2.35 kg	6.08 lb; 2.76 kg



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Z BY HP DESKTOP SECURITY & MANAGEABILITY

	Z2 Mini G4	Z2 SFF G4, Z2 Tower G4	Z4 G4, Z6 G4, Z8 G4
Security			
Absolute (Computrace) PC Tracking ³⁷	Yes	Yes	Yes
Cable lock devices/kits ³⁸	Yes	Optional	Yes
Chassis padlocks	Kensington	Yes	Kensington
Discrete TPM 2.0 Security Chip (Common Criteria EAL4+ Augmented Certified)	Yes SLB 9670VQ2.0	Yes SLB 9670VQ2.0	Yes SLB 9670VQ2.0
Data Protection ³⁹	HP Secure Erase, others	HP Secure Erase, others	HP Secure Erase, others
Device Protection ⁴⁰	HP Sure Start, others	HP Sure Start, others	HP Sure Start, others
Full volume encryption	Yes, with SED	Yes, with SED	Yes
HP BIOS Protection	HP Sure Start	HP Sure Start	HP Sure Start
HP BIOSphere with Sure Start ^{40,41}	Yes	Yes	Yes
HP Client Security Suite ^{42,43}	Yes	Yes	Yes
HP DriveLock and Automatic DriveLock	DriveLock only	DriveLock only	Yes
HP Endpoint Security Controller	Yes	Yes	Yes
HP Multi-Factor Authenticate	Yes	Yes	Yes
HP Password Manager ⁴⁴	Yes	Yes	Yes
HP Power-On Authentication ⁴⁵	Yes	Yes	Yes
HP Secure Erase ³⁹	Yes	Yes	Yes
HP Security Manager	Yes	Yes	Yes
HP Sure Click ⁴⁶	Yes	Yes	Yes
HP Sure Recover ⁴⁷	Yes		
HP Sure Run ⁴⁸	Yes		
HP Sure Start ⁴⁰	Gen 4	Gen 2	Gen 3
Integrated Hood Sensor		Optional	Optional
Master Boot Record Security	Yes	Yes	Yes (MBR+GPT)
Microsoft Defender ⁴⁹	Yes	Yes	Yes
Power-on password (via BIOS)	Yes	Yes	Yes
Pre-boot authentication	Yes	Yes	Yes
Pre-boot security	Device Guard, Intel® TXT, HP Sure Start	Device Guard, Intel® TXT, HP Sure Start	Device Guard, Intel® TXT, HP Sure Start
SATA port disablement (via BIOS)	Yes	Yes	Yes
Secure authentication	Yes	Yes	Yes



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Z BY HP DESKTOP SECURITY & MANAGEABILITY (CONTINUED)

	Z2 Mini G4	Z2 SFF G4, Z2 Tower G4	Z4 G4, Z6 G4, Z8 G4
Serial enable/disable (via BIOS)	Yes	Yes	Yes
Set-up password (via BIOS)	Yes	Yes	Yes
USB port disable at factory (user configurable via BIOS)	Yes	Yes	Yes
TPM 2.0	Yes	Yes	Yes
HP Client Management			
HP BIOS Config Utility	Yes	Yes	Yes
HP Client Catalog	Yes	Yes	Yes
HP Driver Packs ⁵⁰	Yes	Yes	Yes
HP Manageability Integration Kit ⁵¹	Yes	Yes	Yes
HP PC Hardware Diagnostics UEFI	Yes	Yes	Yes
HP Support for Microsoft SCCM	Yes	Yes	Yes
HP System Software Manager	Yes	Yes	Yes
LANDESK Management Suite	Yes	Yes	Yes
Ivanti Management Suite (download)			
HP Value Add			
Bing search for IE11	Yes	Yes	Yes
Buy Office	Yes	Yes	Yes
HP Hotkey Support	Yes	Yes	Yes
HP JumpStart	Yes	Yes	Yes
HP Performance Advisor	Yes	Yes	Yes
HP ZCentral Remote Boost	Yes	Yes	Yes
HP Remote Graphics Software (RGS) ³⁶	Yes	Yes	Yes
HP Support Assistant ⁵³	Yes	Yes	Yes
One-step log-on	Yes	Yes	Yes
PDF Complete - Corporate Edition		Yes	
Efficiency			
ENERGY STAR® certified	Yes	Yes	Yes
EPEAT® registered ⁵⁴		Yes	Yes
Low Halogen ⁵⁵		Yes	Yes
Reliability			
HP Dust Management Solution		Yes	Z4 only
HP Total Test Process ⁵⁶	Yes	Yes	Yes
RAID configurations		Yes	Yes
Tool-less serviceability ⁵⁷	Yes	Yes	Yes



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Z BY HP DESKTOP SECURITY & MANAGEABILITY

	Z1 G6	Z2 Mini G5	Z2 SFF G5	Z2 Tower G5
Security				
Absolute Persistence Module	Yes	Yes	Yes	Yes
Cable Lock Devices/Kits	Yes	Yes	Yes	Yes
Chassis Padlocks	Yes	Yes	Yes	Yes
Discrete TPM 2.0 Security Chip (Common Criteria EAL4 + Augmented Certified)	Yes	Yes	Yes	Yes
Data Protection	Yes	Yes	Yes	Yes
Device Protection	Yes	Yes	Yes	Yes
Full volume encryption	Yes	Yes	Yes	Yes
HP BIOS Protection	Yes	Yes	Yes	Yes
HP BIOSphere with Sure Start	Yes	Yes	Yes	Yes
HP Client Security Suite	Yes	Yes	Yes	Yes
HP DriveLock and Automatic DriveLock	DriveLock only	Yes	Yes	Yes
HP Endpoint Security Controller	Yes	Yes	Yes	Yes
HP Multi-Factor Authenticate	Yes	Yes	Yes	Yes
HP Password Manager	Yes	Yes	Yes	Yes
HP Power-On Authentication	Yes	Yes	Yes	Yes
HP Secure Erase	Yes	Yes	Yes	Yes
HP Security Manager	Yes	Yes	Yes	Yes
HP Sure Click	Yes	Yes	Yes	Yes
HP Sure Recover	Gen 3	Gen 3	Gen 3	Gen 3
HP Sure Run	Gen 3	Gen 3	Gen 3	Gen 3
HP Sure Start	Gen 6	Gen 6	Gen 6	Gen 6
Inegrated hood sensor	Yes	Yes	Yes	Yes
Master Boot Record Security		Yes	Yes	Yes
Microsoft Defender	Yes	Yes	Yes	Yes
Parallel Enable/Disable (via BIOS)	Yes	Yes	Yes	Yes
Power-on password (via BIOS)	Yes	Yes	Yes	Yes
Pre-boot authentication	Yes	Yes	Yes	Yes
Pre-boot security	Yes	Yes	Yes	Yes
Removeable media write/boot control		Yes	Yes	Yes
SATA 0,1 port disablement (via BIOS)	Yes			
Security Lock slot		Yes	Yes	Yes
Serial, USB enable/disable (via BIOS)	Yes			
Set-up password (via BIOS)	Yes	Yes	Yes	Yes
USB port disable at factory (user configurable via BIOS)	Yes	Yes	Yes	Yes
TPM 2.0	Yes	Yes	Yes	Yes
HP Client Management				
HP BIOS Config Utility	Yes	Yes	Yes	Yes
HP Client Catalog	Yes	Yes	Yes	Yes
HP Driver Packs	Yes	Yes	Yes	Yes
HP Manageability Integration Kit	Yes	Yes	Yes	Yes
HP PC Hardware Diagnostics UEFI	Yes	Yes	Yes	Yes
HP Support for Microsoft SCCM	Yes	Yes	Yes	Yes
HP System Software Manager	Yes	Yes	Yes	Yes
Ivanti Management Suite (download)	Yes	Yes	Yes	Yes
HP Value Add				
Bing search for IE11	Yes	Yes	Yes	Yes
Buy Office	Yes	Yes	Yes	Yes
HP Desktop Support Utilities	Yes	Yes	Yes	Yes
myHP	Yes	Yes	Yes	Yes
HP Performance Advisor	No	Yes	Yes	Yes
HP ZCentral Remote Boost	Yes	Yes	Yes	Yes
HP Support Assistant	Yes	Yes	Yes	Yes
One-step log-on	Yes	Yes	Yes	Yes



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Z BY HP DESKTOP SECURITY & MANAGEABILITY (CONTINUED)

	Z1 G6	Z2 Mini G5	Z2 SFF G5	Z2 Tower G5
Efficiency				
ENERGY STAR® certified	Gold (target, TBC)	Gold	Gold	Gold
EPEAT® registered	Yes	Yes	Yes	Yes
Low Halogen	Yes	Yes	Yes	Yes
Reliability				
HP Dust Management Solution	Dust filter		Dust filter	Dust filter
HP Total Test Process	Yes	Yes	Yes	Yes
RAID Configurations	Yes	Yes	Yes	Yes
Tool-less serviceability	Yes	Yes	Yes	Yes



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Z BY HP LAPTOP SECURITY & MANAGEABILITY

	ZBook 14u G6, ZBook 15u G6	ZBook 15v G5	ZBook Studio x360 G5, Studio G5	ZBook 15 G5, ZBook 17 G5	ZBook Studio G7 ZBook Create G7	ZBook Firefly 14 G7	ZBook Firefly 15 G7
Security							
Absolute Persistence Module ²⁷	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cable lock devices/kits					Optional	AM0	AM0
Chassis padlocks					No	n/a	n/a
Discrete TPM 2.0 Security Chip (Common Criteria EAL4+ Augmented Certified)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP BIOSphere with Sure Start ⁴¹	Gen4		Gen4	Gen4	Gen5	Gen6	Gen6
HP Client Security Manager	Gen3	Gen3	Gen3	Gen3	Gen6	Gen6	Gen6
HP Credential Manager	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Device Access Manager	Yes		Yes	Yes	Yes	Yes	Yes
HP Drive Encryption			Yes	Yes	Yes	Yes	Yes
HP DriveLock and Automatic DriveLock	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Endpoint Security Controller	Yes		Yes	Yes	Yes	Yes	Yes
HP Fingerprint Sensor ⁵⁸	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Lock Kits			Yes	Yes	Yes	AM0	AM0
HP Multi-Factor Authenticate	Gen2	Gen2	Gen2	Gen2	Gen3	Gen3.5	Gen3.5
HP Password Manager ⁴⁴					Yes		
HP Power-On Authentication ⁴⁵	Yes		Yes	Yes	Yes	Yes	Yes
HP Privacy Camera Shutter ⁵⁹	Yes		Yes	Yes	No	Yes	Yes
HP Secure Erase ³⁹	Yes		Yes	Yes	Yes	Yes	Yes
HP Security Manager	Yes				Yes	Yes	Yes
HP Spare Key	Yes		Yes	Yes	Yes	Yes	Yes
HP Sure Click ⁴⁶	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Sure Recover ⁴⁷	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Sure Run ⁴⁸	Yes		Yes	Yes	Yes	Yes	Yes
HP Sure Start ^{40,60}	Gen4	Gen4	Gen4	Gen4	Gen6	Gen6	Gen6
HP Sure View Reflect ²¹	Gen2		Gen2	Gen2	Yes	Yes	Yes
Integrated hood sensor					No	Yes (14 DSC only)	Yes (14 DSC only)
Intel® Anti-Theft Technology support		Yes	Yes	Yes	Yes	Yes	Yes
IR camera with Windows Hello ⁶¹	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Master Boot Record Security	Yes		Yes	Yes	Yes	Yes	Yes
Microsoft Defender ⁴⁹	Yes		Yes	Yes	Yes	Yes	Yes
Microsoft Security Essentials	Yes		Yes	Yes	Yes	Yes	Yes
Power-on password (via BIOS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Pre-boot authentication	Yes				Yes	Yes	Yes
Pre-boot security	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SATA port disablement (via BIOS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Serial enable/disable (via BIOS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Set-up password (via BIOS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
USB port disable at factory (user configurable via BIOS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TPM 2.0	Yes		Yes	Yes	Yes	Yes	Yes



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Z BY HP LAPTOP SECURITY & MANAGEABILITY (CONTINUED)

	ZBook 14u G6, ZBook 15u G6	ZBook 15v G5	ZBook Studio x360 G5, Studio G5	ZBook 15 G5, ZBook 17 G5	ZBook Studio G7 ZBook Create G7	ZBook Firefly 14 G7	ZBook Firefly 15 G7
HP Client Management							
HP BIOS Config Utility	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Client Catalog	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Driver Packs ⁵⁰	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Manageability Integration Kit ⁵¹	Gen2	Gen2	Gen2	Gen2	Gen3	Gen 4	Gen 4
HP PC Hardware Diagnostics UEFI	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP SoftPaq Download Manager ⁵²	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Support for Microsoft SCCM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP System Software Manager	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LANDESK Management Suite	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Value Add							
Bing search for IE11	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Buy Office	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cyberlink Power Media Player	Yes				No	No	No
HP ePrint Driver + JetAdvantage ⁶²	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Hotkey Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP JumpStart	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP LAN-WLAN Protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Noise Cancellation Software	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Clear Sound Amp	Yes		Yes	Yes	Yes	Yes	Yes
HP Performance Advisor	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Recovery Manager (Win 10)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP ZCentral Remote Boost ³⁶	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP Support Assistant ⁵³	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HP WorkWise (requires Bluetooth®) ⁶⁴	Yes	Yes	Yes	Yes	Yes	Yes	Yes
One-step log-on		Yes	Yes	Yes	Yes	Yes	Yes
Efficiency							
ENERGY STAR® certified	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EPEAT® registered ⁵⁴	Yes	Yes	Yes	Yes	Yes	Yes - Gold	Yes - Gold
Low Halogen ⁵⁵	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Reliability							
HP Total Test Process ⁵⁶	Yes		Yes	Yes	Yes	Yes	Yes
RAID configurations		Yes	Yes	Yes	No	No	No
Tool-less serviceability ⁵⁷				Yes	No	No	No



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Z BY HP LAPTOP SECURITY & MANAGEABILITY

	ZBook Power G7	ZBook Fury 15 G7 ZBook Fury 17 G7
Security		
Absolute Persistence Module	Yes	Yes
Cable Lock Devices/Kits	AMO	AMO
Discrete TPM 2.0 Security Chip (Common Criteria EAL4 + Augmented Certified)	Yes	Yes
HP BIOSphere with Sure Start	Gen6	Gen6
HP Client Security Manager	Gen6	Gen6
HP Credential Manager	Yes	Yes
HP Device Access Manager	Yes	Yes
HP Drive Encryption	Yes	Yes
HP DriveLock and Automatic DriveLock	Yes	Yes
HP Endpoint Security Controller	Yes	Yes
HP Fingerprint Sensor	Yes	Yes
HP Lock Kits	AMO	AMO
HP Multi-Factor Authenticate	Gen3.5	Gen3.5
HP Power-On Authentication	Yes	Yes
HP Privacy Camera Shutter	Yes	Yes
HP Secure Erase	Yes	Yes
HP Security Manager	Yes	Yes
HP Spare Key	Yes	Yes
HP Sure Click	Yes	Yes
HP Sure Recover	Yes	Yes
HP Sure Run	Yes	Yes
HP Sure Start	Gen6	Gen6
HP Sure View Reflect	Yes	Yes
Inegrated hood sensor	No	Yes
- HP Tamper Lock		
Intel® Anti-Theft technology support		
IR Camera with Windows Hello	Yes	Yes
Master Boot Record Security	Yes	Yes
Microsoft Defender	Yes	Yes
Microsoft Security Essentials	Yes	Yes
Power-on password (via BIOS)	Yes	Yes
Pre-boot authentication	Yes	Yes
Pre-boot security	Yes	Yes
Removeable media write/boot control	Yes	Yes
SATA port disablement (via BIOS)	Yes	Yes
Security lock slot	Yes	Yes
Serial enable/disable (via BIOS)	Yes	Yes
Set-up password (via BIOS)	Yes	Yes
USB port disable at factory (user configurable via BIOS)	Yes	Yes
TPM 2.0	Yes	Yes
HP Client Management		
HP BIOS Conig Utility	Yes	Yes
HP Client Catakig	Yes	Yes
HP Driver Packs	Yes	Yes
HP Manageability Integration Kit	Gen 4	Gen 4
HP PC Hardware Diagnostics UEFI	Yes	Yes
HP SoftPaq Download Manager	Yes	Yes
HP Support for Microsoft SCCM	Yes	Yes
HP System Software Manager	Yes	Yes
LANDESK Management Suite	Yes	Yes
HP Value Add		
Bing search for IE11	Yes	Yes
Buy Office	Yes	Yes
Cyberlink Power Media Player	No	No
HP ePrint Driver + Jet Advantage	Yes	Yes
HP Hotkey support	Yes	Yes



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	ZBook Power G7	ZBook Fury 15 G7 ZBook Fury 17 G7
HP JumpStart	Yes	Yes
HP LAN-WLAN Protection	Yes	Yes
HP Noise Cancellation Software	Yes	Yes
HP Clear Sound Amp	Yes	Yes
HP Performance Advisor	Yes	Yes
HP Recovery Manager (Win 10)	Yes	Yes
HP ZCentral Remote Boost	Yes	Yes
HP Support Assistant	Yes	Yes
HP WorkWise (requires bluetooth)	Yes	Yes
One-step log-on	Yes	Yes
Efficiency		
ENERGY STAR® certified	Yes	Yes
EPEAT® registered	Yes	Yes
Low Halogen	Yes	Yes
Reliability		
HP Total Test Process	Yes	Yes
RAID Configurations	No	Yes
Tool-less serviceability	No	Yes



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Test MIL-STD-810G	ZBook 15v G5	ZBook Studio G5, Studio x360 G5	ZBook 14u G6, 15u G6	ZBook 15 G6, 17 G6	ZBook Studio G7, ZBook Create G7	ZBook Firefly 14/15 G7	ZBook Power G7	ZBook Fury 15 G7, ZBook Fury 17 G7
Tested Under	-	-	-	-	810H	810H		
Drop	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Functional Shock	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Vibration (Category 4)	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Vibration (Category 5)	-	-	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Vibration (Category 24)	-	-	-	-	PASSED	PASSED		
Dust	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Humidity	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Altitude (Procedure I)	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Altitude (Procedure II)	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
High Temperature (Procedure I)	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
High Temperature (Procedure II)	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Low Temperature (Procedure I)	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Low Temperature (Procedure II)	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Temperature Shock	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Sand	-	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Explosive Atmosphere	-	PASSED	-	PASSED	PASSED	-	PASSED	PASSED
Freeze/Thaw	-	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Bench Handling Shock	-	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Crash Hazard Shock	-	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Transportation Shock	-	-	PASSED	PASSED	PASSED	PASSED	PASSED	PASSED
Solar Radiation	-	-	-	PASSED	PASSED	-	PASSED	PASSED



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IMAGE ATTRIBUTION

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Operating System

- 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>.
- For detailed OS/hardware support information for Linux® see: http://www.hp.com/support/linux_hardware_matrix.
- Z4 G4: Windows 10 Pro 64 for Workstations is available on Intel® Xeon® W processor configurations only.
- Z4 G4: Windows 10 Pro 64 is available on Intel® Core™ X-Series processor configurations only.
- ZBooks: Linux® and Ubuntu are supported but not preloaded.

Processor

- 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>.
- 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.
- Intel® Optane™ memory (cache) is sold separately. Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system. Available for HP commercial desktops and notebooks and for select HP workstations (Z240 Tower/SFF, Z2 Mini, ZBook Studio, 15 and 17 G5) and requires a SATA HDD, 7th Gen or higher Intel® Core™ processor or Intel® Xeon® processor E3-1200 V6 product family or higher, BIOS version with Intel® Optane™ supported, Windows 10 version 1703 or higher, M.2 type Z280-S1-B-M connector on a PCH Remapped PCIe Controller and Lanes in a x2 or x4 configuration with B-M keys that meet NVMe™ Spec 1.1, and an Intel® Rapid Storage Technology (Intel® RST) 15.5 driver.
- Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system.
- Z4 G4, Z6 G4, Z8 G4: Windows 10 Pro is preinstalled. Windows 7 media is only available upon request from HP Customer Support. 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.

Memory

- Non-ECC memory only available with Intel® Core™ processors. ECC memory only available with Intel® Xeon® processors.
- For systems installed with Microsoft Windows 7 (Ultimate, Enterprise or Professional), the maximum accessible system memory is 192 GB. For systems installed with Microsoft Windows 8.x (Enterprise or Pro), the maximum accessible system memory is 512 GB.
- ZBooks: Only 2 DIMM configurations run at 2400 MHz and 4 DIMM configurations run at 2133 MHz.

Graphics

- For Intel® graphics: HD graphics requires a 7th generation processor. UHD requires an 8th generation processor.
- For Intel® graphics: HD content required to view HD images. UHD content required to view UHD images.
- Intel® HD graphics 630 is configurable as a standalone graphics option; Intel® HD graphics P630 only used when NVIDIA® Optimus™ Technology is enabled
- Z4 G4, Z6 G4, Z8 G4, ZBook 17 G5: HP VR Ready Configurations available.
- Z6 G4: The AMD Radeon™ Pro WX 4100 Graphics is available only as an aftermarket option.

Display options

- HD content required to view HD images.
- ZBooks: HP Privacy Camera Shutter only available on non-touch screens equipped with HD or IR camera and must be installed at the factory.
- ZBooks: HP Sure View integrated privacy screen is an optional feature available on select platforms only and must be configured at purchase.

Internal Storage

- 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 36 GB (for Windows 10) of hard drive (or system disk) is reserved for the system recovery software.
- 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 <http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00060684/c00060684.pdf> for RAID capabilities with Linux®.
- Intel® Optane™ memory (cache) is sold separately. Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system. Available for HP commercial desktops and notebooks and for select HP workstations (Z240 Tower/SFF, Z2 Mini, ZBook Studio, 15 and 17 G5) and requires a SATA HDD, 7th Gen

- or higher Intel® Core™ processor or Intel® Xeon® processor E-2100 product family or higher, BIOS version with Intel® Optane™ supported, Windows 10 version 1703 or higher, M.2 type Z280-S1-M connector on a PCH Remapped PCIe Controller and Lanes in a x2 or x4 configuration with M keys that meet NVMe™ Spec 1.1, and an Intel® Rapid Storage Technology (Intel® RST) 15.5 driver.
- Intel® Optane™ memory not supported on non-Core Intel® Pentium™ processors.
- Z4 G4: 300 GB SAS (15000 rpm) Supported only on Intel® Xeon® configurations: Not supported with Intel® Core™X processor configurations.
- Z4 G4: 256 GB up to 4 TB HP Z Turbo Drive Quad Pro PCIe® SSD Available on Intel® Xeon® W processor configurations only.

Optical and Other Storage

- 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.
- 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.

Expansion slots

- Z2 Mini G4: Three (3) DisplayPort™ 1.2 in Performance model.

Communications

- 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 workstation to communicate with other 802.11ac WLAN devices.
- Z6 G4, Z8 G4: HP 10GBASE-T Dual NIC Z6/8 G4 is sold separately or as an optional feature.
- Z4 G4: I210-AT, I219-V are available in Intel® Xeon® configurations only.
- ZBooks: 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.
- ZBook 15u GbE - The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

Remote Technology

- HP RGS requires a Windows, Linux®, or Mac® OS X 10.10 and newer operating system and network access.

Security

- Absolute agent is shipped turned off and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: <http://www.absolute.com/companylegal/agreements/computrace-agreement>. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- Z8 G4: HP Keyed Cable Lock Kit is available only as an aftermarket option.
- HP Secure Erase: For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88. Supported on Elite and Z platforms with BIOS version F.03 or higher.
- HP Sure Start Gen3 is available on HP Workstation products equipped with Intel® 7th generation processors.
- HP BIOSphere Gen4 features may vary depending on the PC platform and configurations requires 8th Gen Intel® processors.
- HP Client Security Suite Gen 4 requires Windows and Intel® or AMD 8th generation processors.
- HP Client Security Suite Gen 3 - Requires Windows and Intel® 7th generation processors.
- HP Password Manager: HP Password manager requires Windows. Some websites and applications may not be supported. User may need to enable or allow the add-on / extension in the internet browser.
- Power On Authentication: HP commercial platforms support password with this feature and fingerprint where applicable.
- HP Sure Click is available on select HP platforms and supports Microsoft® Internet Explorer, Google Chrome, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode. Check <http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-0922ENW> for all compatible platforms as they become available.
- HP Sure Recover is available on HP Workstations with 8th generation Intel® or AMD processors and requires an open, wired network connection. Not available on platforms with multiple internal storage drives, Intel® Optane™. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.



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- ⁴⁸ HP Sure Run is available on HP Workstation products equipped with 8th generation Intel® or AMD processors.
- ⁴⁹ Microsoft Security Defender requires Windows 10. Opt in and internet connection required for updates. For Windows 8.x and 10 operating systems only.
HP Client Management
- ⁵⁰ HP Driver Packs not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.
- ⁵¹ HP Manageability Integration Kit Gen2 can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html/>.
- ⁵² HP SoftPaq Download Manager (SDM); HP System Software Manager (SSM); HP Management Integration Kit for Microsoft System Center Configuration Manager: Not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.

HP Value Add

- ⁵³ HP Support Assistant - Requires Windows and Internet Access.

Efficiency

- ⁵⁴ EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at www.hp.com/go/options.
- ⁵⁵ External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.

Reliability

- ⁵⁶ HP's Total Test Process is 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.
- ⁵⁷ Tool-less feature applies to the cover only.

Mobile Only Security

- ⁵⁸ Fingerprint Sensor is optional.
- ⁵⁹ ZBooks: Privacy camera not available on touchscreen.
- ⁶⁰ HP Sure Start Gen4 is available on HP Workstation products equipped with Intel® 8th generation processors.

- ⁶¹ Windows Hello optional. Windows Hello face authentication utilizes a camera specially configured for near infrared (IR) imaging to authenticate and unlock Windows devices as well as unlock your Microsoft Passport.

Mobile Only HP Value Add

- ⁶² Mobile Only HP Value Add
- ⁶³ HP ePrint Driver + JetAdvantage - Requires an Internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see <http://www.hp.com/go/eprintcenter>). Separately purchased data plans or usage fees may apply. Print times and connection speeds may vary.
- ⁶⁴ HP Mobile Connect Pro is only available on preconfigured devices with WWAN. For geographic availability refer to <http://www.hp.com/go/mobileconnect>.
- ⁶⁵ HP Workwise smartphone app is available as a free download on the App Store and Google Play. See requirements at www.hp.com/go/workwise.
- ⁶⁶ Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming media players that also support Miracast. You can use Miracast to share what you're doing on your PC and present a slide show. For more information: <http://windows.microsoft.com/en-us/windows-8/project-wireless-screen-miracast>.
- ⁶⁷ Skype is not offered in China.

MIL-STD-810G Testing

- ⁶⁸ MIL-STD-810G testing is conducted on select HP products. Testing is not intended to demonstrate fitness for U.S. Department of Defense (DoD) 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.

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