HP Workstations

Quick reference guide

A family of overachievers

February 2013

HP recommends Windows.

Meet Our HP Workstation Family—Compare Features

	HP Z1	HP Z220 SFF	HP Z220 CMT
Overview	Power without the tower.	Small Package. Bigger Punch.	Highly Affordable. Exceptionally Expandable.
Operating systems	Windows 7 Professional 32-Bit Windows 7 Professional 64-bit HP Linux Installer Kit SUSE Linux Enterprise Desktop 11 (90 day license) Red Hat Enterprise Linux Desktop/Workstation 　　(1 year paper license; no preinstalled OS)	Windows 7 Professional 32-Bit Windows 7 Professional 64-bit Windows 7 Ultimate 64-bit Windows 8 Pro 64-bit Windows 8 中文版 64-bit Windows 8 Pro Downgrade to Windows 7 Pro 32-bit Windows 8 Pro Downgrade to Windows 7 Pro 64-bitHP 　　Linux Installer Kit SUSE Linux Enterprise Desktop 11 (90 day license) Red Hat Enterprise Linux Desktop/Workstation 　　(1 year paper license; no preinstalled OS)	Windows 7 Professional 32-Bit Windows 7 Professional 64-bit Windows 7 Ultimate 64-bit Windows 7 Home Premium 32-bit Windows 7 Home Premium 64-bit Windows 8 Pro 64-bit Windows 8 中文版 64-bit Windows 8 Pro Downgrade to Windows 7 Pro 32-bit Windows 8 Pro Downgrade to Windows 7 Pro 64-bit HP Linux Installer Kit SUSE Linux Enterprise Desktop 11 (90 day license) Red Hat Enterprise Linux Desktop/Workstation 　　(1 year paper license; no preinstalled OS)
Processor/chipset	Intel® Core™ i3-2000 Processor Series Intel® Xeon® Processor E3-1200 Series[1,2,3] 3rd Generation Intel® Core™ i3, i5 Processors Intel® Xeon® Processor E3-1200v2 Series Intel® C206 Chipset	Intel® Pentium® Processor G2020 3rd Generation Intel® Core™ i3, i5, i7 Processors Intel® Xeon® Processor E3-1200v2 Series[1,2,3] Intel® C216 chipset	Intel® Pentium® Processor G2020 3rd Generation Intel® Core™ i3, i5, i7 Processors Intel® Xeon® Processor E3-1200v2 Series[1,2,3] Intel® C216 chipset
Slots available/maximum memory/number of memory channels[5]	4 DIMM slots, up to 32 GB, DDR3 ECC/8 GB 　　DDR3 nECC, 1600MHz 2 channels per CPU	4 DIMM slots, up to 32 GB ECC/non-ECC, 　　DDR3 1600 MHz 2 channels per CPU	4 DIMM slots, up to 32 GB ECC/non-ECC, 　　DDR3 1600 MHz 2 channels per CPU
Expansion slots	1 PCIe x 16 full 3 miniPCIe	1 PCIe Gen3 x16 1 PCIe Gen2 x4/x16 2 PCIe Gen2 x1 1 PCI (all slots are Low Profile)	1 PCIe Gen3 x16 1 PCIe Gen2 x4/x16 1 PCIe Gen2 x4/x8 2 PCI Gen2 x1 2 PCI
Graphics	Intel® HD Graphics 2000 (Intel® Core™ Processors) Intel® HD Graphics P3000 (Intel® Xeon® 　　E3-1xx5 Processors) Intel® HD Graphics 2500 (Intel® Core™ i3 and 　　i5 Processors) Intel® HD Graphics P4000 (Intel® Xeon® 　　E3-12x5 Processors) NVIDIA Quadro 500M NVIDIA Quadro 1000M NVIDIA Quadro K3000M NVIDIA Quadro K4000M	Up to Intel® HD Graphics 4000 (Intel® Core™ Processors) Intel® HD Graphics P4000 (Intel® Xeon® E3-12x5 Processors) NVIDIA NVS 300 NVIDIA NVS 310 NVIDIA NVS 510 AMD FirePro™ V3900 NVIDIA Quadro 410 NVIDIA Quadro K600	Up to Intel® HD Graphics 4000 (Intel® Core™ Processors) Intel® HD Graphics P4000 (Intel® Xeon® E3-12x5 Processors) NVIDIA NVS 300 NVIDIA NVS 310 NVIDIA NVS 510 AMD FirePro™ V3900 NVIDIA Quadro 410 NVIDIA Quadro 600 or K600 NVIDIA Quadro 2000 or K2000 AMD FirePro™ V7900 or W7000 (AMO only)* NVIDIA Quadro 4000 or K4000 (AMO only)*
Maximum supported displays	One external display via display port	4 displays	4 displays
Controllers and HDDs[7,8]	Integrated Serial ATA interfaces 　　(2x 6Gb/s SATA, 1x 3Gb/s SATA) SATA 7200 3.5-in. drives: 250, 500 GB, 1, 2, 3 TB SATA 10K 2.5-in. drives: 300, 500, 600 GB, 1 TB SATA Solid State drives: 160, 256, 300 GB	Integrated SATA Controller, RAID 0,1 　　supported: 2 ports 3 Gb/s, 2 ports 6 Gb/s Up to (2) 3.5-inch 7200 rpm SATA drives: 　　250, 500 GB, 1, 2 TB, 4 TB max Up to (2) 2.5-inch 10K rpm SATA drives: 　　250, 500 GB, 1 TB, 2 TB max Up to (2) 2.5-inch SATA SSD drives: 　　128, 160, 256, 300 GB, 0.6 TB max Up to (1) 2.5-inch SATA self-encrypting solid state boot 　　drive (SED SSD): 256 GB, 256 GB max Up to (1) 2.5-inch SATA self-encrypting 7200 rpm boot 　　drive (SED): 500 GB, 500 GB max	Integrated SATA Controller, RAID 0,1 　　supported: 4 ports 3 Gb/s, 2 ports 6 Gb/s Up to (3) 3.5-inch 7200 rpm SATA drives: 　　250, 500 GB, 1, 2 TB, 6 TB max Up to (3) 2.5-inch 10K rpm SATA drives: 250, 　　500 GB, 1 TB, 3 TB max Up to (3) 2.5-inch SATA solid state drives: 　　128, 160, 256, 300 GB, 0.9 TB max Up to (1) 2.5-inch SATA self-encrypting solid state boot 　　drive (SED SSD): 256 GB, 256 GB max Up to (1) 2.5-inch SATA self-encrypting 7200 rpm boot 　　drive (SED): 500 GB, 500 GB max
Optical drives[9,10,11]	DVD +/- RW Super-Multi Slot-Load; Blu-ray Writer 　　Slot-Load	DVD-ROM; DVD+/-RW DL Super Multi; HP Blu-ray Writer; HP 22-in-1 Media Card Reader	DVD-ROM; DVD+/-RW DL Super Multi; HP Blu-ray Writer; HP 22-in-1 Media Card Reader
Communications[12]	Intel Gb LAN Wireless Bluetooth®[13]	Intel 82579 GbE Network Connection 　　(Intel® vPro™ with Intel® AMT 8.0)	Intel 82579 GbE Network Connection 　　(Intel® vPro™ with Intel® AMT 8.0)

	HP Z420	HP Z620	HP Z820
Overview	Expand your power.	Versatility redefined, still compact.	Ultimate performance for ultimate projects.

Operating systems	Windows 7 Professional 32-Bit
	Windows 7 Professional 64-bit
	Windows 7 Ultimate 64-bit
	Windows 7 Home Premium 32-bit
	Windows 7 Home Premium 64-bit
	HP Linux Installer Kit
	SUSE Linux Enterprise Desktop 11 (90 day license)
	Red Hat Enterprise Linux Desktop/Workstation
	   (1 year paper license; no preinstalled OS)
		Windows 7 Professional 32-Bit
		Windows 7 Professional 64-bit
		Windows 7 Ultimate 64-bit
		HP Linux Installer Kit
		Red Hat Enterprise Linux Desktop/Workstation
		   (1 year paper license; no preinstalled OS)
			Windows 7 Professional 32-bit*
			Windows 7 Professional 64-bit*
			Windows 7 Ultimate 64-bit* – –
			HP Linux Installer Kit
			Red Hat Enterprise Linux Desktop/Workstation
			   (1 year paper license; no preinstalled OS)

Processor/chipset	Intel® Xeon® Processor E5-1600 Series[1,2,3] Intel® Xeon® Processor E5-2600 Series[1,2,3,4] Intel® C602 Chipset	Intel® Xeon® Processor E5-1600 Series[1,2,3] Intel® Xeon® Processor E5-2600 Series[1,2,3] Intel® C602 Chipset	Intel® Xeon® Processor E5-2600 Series[1,2,3] Intel® QuickPath Technology Intel® C602 Chipset

Slots available/maximum memory/number of memory channels[5]	8 DIMM slots, up to 64 GB ECC
	   unbuffered DDR3 1600 MHz
	4 channels per CPU
		Up to 12 DIMM slots with 2 CPUs, up to 192 GB, 8-channel
		   ECC DDR3 1600 MHz
		4 channels per CPU
			16 DIMM slots, up to 512 GB, 8-channel ECC DDR3, up
			   to 1600 MHz
			4 channels per CPU

Expansion slots	2 PCI Express Gen3 x16 mechanical/electrical 1 PCI Express Gen3 x8 mechanical/electrical 1 PCI Express Gen2 x8 mechanical/x4 electrical 1 PCI Express Gen2 x4 mechanical/x1 electrical 1 Legacy PCI	2 PCI Express Gen3 x16 1 PCI Express Gen3 x8 1 PCI Express Gen2 x8 mechanical/x4 electrical 1 PCI Express Gen2 x4 mechanical/x1 electrical 1 Legacy PCI	2 PCI Express Gen3 x16 1 PCI Express Gen3 x16 (Available only with 2nd CPU) 1 PCI Express Gen3 x16 mechanical/x8 electrical (Available only with 2nd CPU) 1 PCI Express Gen3 x8 mechanical/x4 electrical 1 PCI Express Gen2 x8 mechanical/x4 electrical 1 Legacy PCI
Graphics	NVIDIA NVS 300 NVIDIA NVS 310 NVIDIA NVS 510 NVIDIA Quadro 410 AMD FirePro™ V3900 NVIDIA Quadro 600 or K600 NVIDIA Quadro 2000 or K2000 NVIDIA Quadro 4000 or K4000 AMD FirePro™ V7900 or W7000 NVIDIA Quadro K5000 NVIDIA Quadro 6000 NVIDIA Tesla C2075	NVIDIA NVS 300 NVIDIA NVS 310 NVIDIA NVS 510 NVIDIA Quadro 410 AMD FirePro™ V3900 NVIDIA Quadro 600 or K600 NVIDIA Quadro 2000 or K2000 NVIDIA Quadro 4000 or K4000 AMD FirePro™ V7900 or W7000 NVIDIA Quadro K5000 NVIDIA Quadro 6000 NVIDIA Tesla C2075	NVIDIA NVS 300 NVIDIA NVS 310 NVIDIA NVS 510 NVIDIA Quadro 410 AMD FirePro™ V3900 NVIDIA Quadro 600 or K600 NVIDIA Quadro 2000 or K2000 NVIDIA Quadro 4000 or K4000 AMD FirePro™ V7900 or W7000 NVIDIA Quadro K5000 NVIDIA Quadro 6000 NVIDIA Tesla C2075[7]
Maximum supported displays	8 displays	8 displays	8 displays

Controllers and HDDs[7,8]	Integrated 6-channel SATA controller: 2 ports
	   6 Gb/s + 4 ports 3 Gb/s, RAID 0, 1, 5, 10 capable
	Optional SAS controller: LSI 9212-4i 4-port SAS/SATA
	   6 Gb/s, RAID 0, 1, 10 capable
	Up to (4) 3.5-inch 7200 rpm SATA drives: 250, 500 GB,
	   1, 2, 3 TB, 11 TB max
	Up to (4) 2.5-inch 10K rpm SATA drives: 250, 500 GB,
	   1 TB, 4 TB max
	Up to (4) 2.5-inch 10K rpm SAS drives: 300, 600 GB, 2.4
	   TB max
	Up to (4) 3.5-inch 15K rpm SAS drives: 300, 450, 600 GB,
	   2.4 TB max
	Up to (4) 2.5-inch SATA solid state drives: 128, 160, 256,
	   300 GB, 1.2 TB max
	Note: Fourth drive occupies one external 5.25-inch bay
		Integrated 6-channel SATA controller: 2 ports
		   6 Gb/s + 4 ports 3 Gb/s, RAID 0, 1, 5, 10 capable
		Optional SAS controller: LSI 9212-4i 4-port SAS
		   6 Gb/s RAID 0, 1, 10 capable
		Up to (4) 3.5-inch 7200 rpm SATA drives:
		   250, 500 GB, 1, 2, 3 TB, 11 TB max
		Up to (4) 2.5-inch 10K rpm SATA drives: 250, 300, 500 GB,
		   1 TB, 4 TB max
		Up to (4) 2.5-inch 10K rpm SAS drives:
		   300, 600 GB, 2.4 TB max
		Up to (4) 3.5-inch 15K rpm SAS drives:
		   300, 450, 600 GB, 2.4 TB max
		Up to (4) 2.5-inch SATA solid state drives:
		   128, 160, 256, 300 GB, 1.2 TB max
		Up to (1) 2.5-inch SATA self-encrypting solid state boot
		   drive (SED SSD): 256 GB, 256 GB max
		Up to (1) 2.5-inch SATA self-encrypting hard drive (SED
		   HDD): 500 GB, 500 GB max
		Note: Fourth drive occupies one external 5.25-inch bay
			Integrated 2-channel SATA 6 Gb/s controller, RAID 0, 1 capable
			Integrated 4-channel SATA 3 Gb/s controller, RAID 0, 1,
			   5, 10 capable
			Integrated 8-channel SAS 6Gb/s controller, RAID 0, 1,
			   10 capable
			Optional LSI 9260-8i 8-port 6Gb/s SAS HW RAID 0, 1, 5,
			   10 capable
			Up to (5) 3.5-inch 7200 rpm SATA drives: 250, 500 GB, 1, 2, 3 TB
			Up to (4) 3 TB, 14 TB max
			Up to (6) 2.5-inch 10K rpm SATA drives: 250, 500,
			   1000 GB SFF, 6 TB max
			Up to (6) 2.5-inch 10K rpm SAS drives: 300, 600 GB SFF,
			   3.6 TB max
			Up to (5) 3.5-inch 15K rpm SAS drives: 300, 450, 600 GB,
			   3 TB max
			Up to (6) 2.5-inch SATA solid state drives: 128, 160, 256,
			   300 GB, 1.8 TB max
			Up to (1) 2.5-inch SATA solid state SED drives:
			   256 GB, 256 GB max
			Up to (1) 3.5-inch SATA SED hard drive: 500 GB, 500 GB max

Optical drives[10,11,12]	DVD-ROM; DVD+/-RW DL Super-Multi; Blu-ray Writer;
	   22-in-1 Media Card Reader
		DVD-ROM; DVD+/-RW; Slot-load DVD+/-RW; Blu-ray
		   Writer; 22-in-1 Media Card Reader
			DVD-ROM; DVD+/-RW Super-Multi and Slot-Load; Blu-ray
			   Writer; 22-in-1 Media Card Reader

Communications[13]	Integrated Intel GbE LAN Optional Intel NIC Optional Broadcom NIC Optional HP X520 10GbE Dual Port Adapter Optional HP 10GbE SFP+ SR Transceiver Infineon TPM 1.2 Controller	Dual integrated Intel GbE LAN Infineon TPM 1.2 Controller Optional Broadcom GbE NIC Optional Intel GbE NIC Optional HP X520 10GbE Dual Port NIC	Dual integrated Intel GbE LAN Infineon TPM 1.2 Controller Optional Broadcom NIC Optional Intel NIC

HP recommends Windows.

	HP EliteBook 8470w	HP EliteBook 8570w	HP EliteBook 8770w
Overview	Workstation Power. Notebook Mobility.	Portable Powerhouse.	Power to Perform.
Operating systems	Windows 8 Pro and other editions available SUSE Linux Enterprise Desktop Red Hat Enterprise Linux (RHEL) FreeDOS	Windows 8 Pro and other editions available SUSE Linux Enterprise Desktop Red Hat Enterprise Linux (RHEL) FreeDOS	Windows 8 Pro and other editions available SUSE Linux Enterprise Desktop Red Hat Enterprise Linux (RHEL) FreeDOS
Processor/chipset/ system bus	Intel® Core™ i5 or i7 Mobile Processor Family with Intel® Turbo Boost Technology[1,2,3,14,15] Mobile Intel QM77 Chipset Intel vPro Technology (optional)	Intel® Core™ i5 or i7 Mobile Processor Family with Intel® Turbo Boost Technology[1,2,3,14,15] Mobile Intel QM77 Chipset Intel vPro Technology (optional)	Intel® Core™ i5 or i7 Mobile Processor Family with Intel® Turbo Boost Technology[1,2,3,14,15] Mobile Intel QM77 Chipset Intel vPro Technology (optional)
Maximum memory/ slots available[4]	DDR3 SDRAM, 1600 MHz, two slots supporting dual-channel memory, 2/4/8 GB SODIMMs, up to 16 GB total	DDR3 SDRAM, 1600 MHz, dual-core processors support 2 memory slots, 2/4/8 GB S DIMMs, up to 16 GB total, quad-core processors support 4 memory slots, 2/4/8 GB SODIMMs, up to 32 GB total	DDR3 SDRAM, 1600 MHz, dual-core processors support 2 memory slots and quad-core processors support 4 memory slots, 2/4/8 GB SODIMMs, up to 32 GB total
Expansion slots	1 Express Card/54, 1 Secure Digital/MMC Media Reader	1 Express Card/54, 1 Secure Digital/MMC Media Reader	1 Express Card/54, 1 Secure Digital/MMC Media Reader
Graphics[5]	AMD FirePro™ M2000	AMD FirePro™ M4000 NVIDIA Quadro K1000M NVIDIA Quadro K2000M	AMD FirePro™ M4000 NVIDIA Quadro K3000M NVIDIA Quadro K4000M NVIDIA Quadro K5000M
Displays	14.0" diagonal LED-backlit HD anti-glare (1366 x 768) 14.0" diagonal LED-backlit HD+ anti-glare (1600 x 900)	15.6" diagonal LED-backlit WVA anti-glare, HD+ (1600 x 900) 15.6" diagonal LED-backlit WVA anti-glare, FHD (1920 x 1080) 15.6" diagonal LED-backlit UWVA anti-glare, FHD DreamColor (1920 x 1080)	17.3" diagonal LED-backlit WVA anti-glare, HD+ (1600 x 900) 17.3" diagonal LED-backlit WVA anti-glare, FHD (1920 x 1080) 17.3" diagonal LED-backlit UWVA, anti-glare, FHD DreamColor (1920 x 1080)
Controllers and HDDs[7,8]	320/500/750 GB 7200 rpm SMART SATA II HDD 500 GB 7200 rpm SED (Self Encrypting Drive) HDD 128/180 GB SATA 6 GB/s SSD 256 GB SATA 6 GB/s SED SSD RAID 0, 1 support HP 3D DriveGuard[16]	320/500/750 GB 7200 rpm SMART SATA II HDD 500 GB 7200 rpm SED (Self Encrypting Drive) HDD 128/180 GB SATA 6 GB/s SSD 256 GB SATA 6 GB/s SED SSD RAID 0, 1 support HP 3D DriveGuard[16]	Up to (2) 320/500/750 GB 7200 rpm SMART SATA II HDD Up to (2) 500 GB 7200 rpm SED (Self Encrypting Drive) HDD Up to (2) 128/180 GB SATA 6 GB/s SSD Up to (2) 256 GB SATA 6 GB/s SED SSD RAID 0, 1, 5 support[18] HP 3D DriveGuard[16]
Optical drives[9,10,11]	12.7 mm SATA optical drive or secondary hard drive: DVD-ROM Drive; DVD+/-RW Drive; Blu-ray ROM DVD+/-RW Drive; Blu-ray R/RE DVD+/-RW Drive; 500 GB 7200 rpm HDD; Weight saver	12.7 mm SATA optical drive or secondary hard drive: DVD-ROM Drive; DVD+/-RW Drive; Blu-ray ROM DVD+/-RW Drive; Blu-ray R/RE DVD+/-RW Drive; 500 GB 7200 rpm HDD; Weight saver	12.7 mm SATA optical drive or secondary hard drive: DVD-ROM Drive; DVD+/-RW Drive; Blu-ray ROM DVD+/-RW Drive; Blu-ray R/RE DVD+/-RW Drive; 500 GB 7200 rpm HDD; Weight saver
Communications[12]	Optional HP lt2522 LTE/EV-DO Mobile Broadband Module – U.S. only (no Win 8 support) Optional HP lt2523 LTE/HSPA+ Mobile Broadband Module – U.S. only (no Win 8 support) Optional HP hs2350 HSPA+ Mobile Broadband Optional HP un2430 EV-DO/HSPA Mobile Broadband Intel® Centrino Advanced-N 6205 802.11 a/b/g/n 2x2 Intel® Centrino Ultimate-N 6300, 802.11a/b/g/n 3x3 Broadcom 802.11a/b/g/n 2x2 HP Integrated Module with Bluetooth®14 v4.0 HP Connection Manager Integrated Intel® 82579LM Gigabit Network Connection (vPro™ support) 56K v.92 modem	Optional HP lt2522 LTE/EV-DO Mobile Broadband Module – U.S. only (no Win 8 support) Optional HP hs2350 HSPA+ Mobile Broadband Optional HP un2430 EV-DO/HSPA Mobile Broadband Intel® Centrino Advanced-N 6205 802.11 a/b/g/n 2x2 Intel® Centrino Ultimate-N 6300, 802.11a/b/g/n 3x3 Broadcom 802.11a/b/g/n 2x2 HP Integrated Module with Bluetooth®14 v4.0 HP Connection Manager Integrated Intel® 82579LM Gigabit Network Connection (vPro™) 56K v.92 modem	Optional HP hs2350 HSPA+ Mobile Broadband Optional HP un2430 EV-DO/HSPA Mobile Broadband Intel® Centrino Advanced-N 6205 802.11 a/b/g/n 2x2 Intel® Centrino Ultimate-N 6300, 802.11a/b/g/n 3x3 HP Integrated Module with Bluetooth®14 v4.0 Wireless Technology HP Connection Manager Integrated Intel® 82579LM Gigabit Network Connection (vPro™ support) 56K v.92 modem

Select screen images courtesy of Autodesk and Cannon Design

* After-Market Option

1. Multi-Core technologies are designed to improve performance of multithreaded software products and hardware-aware multitasking operating systems and may require appropriate operating system software for full benefits. Not all customers or software applications will necessarily benefit from use of these technologies.
2. Intel's numbering is not a measurement of higher performance.
3. 64-bit computing on Intel architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. See intel.com/info/em64t for more information.
4. Limited options on the Intel® Xeon® Processor E5-2600* Series; Please see HP Z420 Datasheet for details.
5. Each processor supports up to 2 channels (HP Z220 CMT/HP Z220 SFF) or 4 channels (HP Z420/HP Z620/HP Z820) of DDR3 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..
6. NVIDIA Tesla C2075 on the HP Z820 requires the 1125W power supply.
7. 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. HP Z200 does not support RAID 10 Because of drive bay limitation.
8. For hard drives, 1 GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 20 GB of hard drive (or system disk) is reserved for system recovery software for Windows 7.
9. Double Layer discs can store more data than single layer discs. However, double-layer discs burned with this drive may not be compatible with many existing single-layer DVD drives and players.
10. As Blu-Ray contains new technologies, 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 on this workstation.
11. Actual speeds may vary. Does not permit copying of commercially available DVD movies or other copyright protected materials. Intended for creation and storage of your original material and other lawful uses. Note that DVD-RAM cannot read or write to 2.6 GB Single Sided/5.2 GB Double Sided – Version 1.0 media.
12. The term "10/100/1000" or "Gigabit" Ethernet indicates compliance with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.
13. Bluetooth is a trademark owned by its proprietor and used by Hewlett-Packard Company under license.
14. Intel® Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software, and overall system configuration.
15. This workstation does not support the Intel Core 2 Extreme processor over-clocking feature. See intel.com/technology/turboboost for more information.
16. Microsoft Windows required.
17. Raid 5 requires 3 hard disk drives in primary storage, second primary storage and upgrade bay.

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