# **HP Z620 Workstation**

Versatility redefined, still compact.





### Big Possibilities. Compact Form Factor.

With its innovative design, the HP Z620 Workstation gives you a near silent computing solution in a form factor that's a perfect fit for space-constrained environments. And for easy servicing and upgrades, it features a completely tool-less chassis with integrated handles and a tool-free power supply.

#### The Performance You Demand.

Get massive system performance with a small footprint. The HP Z620 features the next evolution in processor technology and system architecture, setting the standard for versatility with support for a single Intel® Xeon® processor E5-1600 or dual Intel® Xeon® processor E5-2600 series. 1,2,3,4 Now with up to 16 cores, the HP Z620 powerhouse supports a full range of processors, to help you get more done every minute.

### **Bring Your Ideas To Life Faster.**

The HP Z620 is designed to support next generation PCI express Gen3 graphics technology that doubles the bandwidth in and out of the card. The HP Z620 offers a huge variety of professional graphics from NVIDIA and AMD— from Pro 2D to Extreme 3D. And with 800W 90% efficient power supply and support for up to 8 displays, the HP Z620 gives you the freedom of doing and seeing more.

## **Modify Your Machine.**

Customize the HP Z620 Workstation the way you want to with a variety of expansion options, including USB 3.0 for blazing fast speeds and up to 12 memory slots capable of supporting 96GB of the latest generation of DDR3 memory. With 3 internal drive bays and 2 external bays, choose from a variety of storage types including SATA 7.2K/10K, SAS 10K/15K and SSD.









	Rackable minitower							
Available Operating Systems	Windows 7 Professional 32-bit* Windows 7 Professional 64-bit* Windows 7 Ultimate 64-bit* HP Linux Installer Kit Red Hat Enterprise Linux Desktop/V	Vorkstatio	n (1 year pap	per license; no p	reinstalled (	OS)		
Available Processors <sup>1,2,3,4</sup>	Processor	GHz	Cache	Memory	Cores	Hyper-Threading	Intel® vPro™ Technology	Intel® Turbo Boost Technology
	Intel® Xeon® Processor E5-2690	2.9	20 MB	1600 MHz	8	Y	Υ	4. 9
	Intel® Xeon® Processor E5-2680	2.7	20 MB	1600 MHz	8	Ϋ́	Ϋ́	4, 8
	Intel® Xeon® Processor E5-2670	2.6	20 MB	1600 MHz	8	Ϋ́	Ý	4, 7
	Intel® Xeon® Processor E5-2667	2.9	15 MB	1600 MHz	6	Ϋ́	Ý	3, 6
	Intel® Xeon® Processor E5-2665	2.4	20 MB	1600 MHz	8	Ϋ́	Ý	4, 7
	Intel® Xeon® Processor E5-2660	2.2	20 MB	1600 MHz	8	Ϋ́	Ý	5, 8
	Intel® Xeon® Processor E5-2650	2.0	20 MB	1600 MHz	8	Ϋ́	Ý	4, 8
	Intel® Xeon® Processor E5-2643	3.3	10 MB	1600 MHz	4	Ϋ́	Ý	1, 2
	Intel® Xeon® Processor E5-2640	2.5	15 MB	1333 MHz	6	Ϋ́	Ý	3, 5
	Intel® Xeon® Processor E5-2630	2.3	15 MB	1333 MHz	6	Ϋ́	Ý	3, 5
	Intel® Xeon® Processor E5-2620	2.0	15 MB	1333 MHz	6	Ϋ́	Ý	3, 5
	Intel® Xeon® Processor E5-2609	2.4	10 MB	1066 MHz	4	N	Ý	N/A
	Intel® Xeon® Processor E5-2603	1.8	10 MB	1066 MHz	4	N	Ý	N/A
	Intel® Xeon® Processor E5-1660	3.3	15 MB	1600 MHz	6	Y	Ý	3, 6
	Intel® Xeon® Processor E5-1650	3.2	12 MB	1600 MHz	6	Ϋ́	Ý	3, 6
	Intel® Xeon® Processor E5-1620	3.6	10 MB	1600 MHz	4	Ý	Ý	2, 3
	Intel® Xeon® Processor E5-1607	3.0	10 MB	1066 MHz	4	N	Υ	N/A
	Intel® Xeon® Processor E5-1603	2.8	10 MB	1066 MHz	4	N	Υ	N/A
Chipset	Intel® C602 Chipset							
Memory <sup>6</sup>	Up to 12 DIMM slots with 2 CPUs, up to 96 GB, 8-channel ECC DDR3 1600 MHz; 4 channels per CPU							
Drive Controllers	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							
21110 001111 011010	integrated 6-chamilet SATA controll	er: 2 ports	6 GD/S + 4 F	orts 3 Gb/s, RAI	D 0, 1, 5, 10	capable; Optional SAS	s controller: LSI 9212-4i 4-po	rt SAS 6 Gb/s RAID 0, 1, 10 capable
	Up to (4) 3.5-inch 7200 rpm SATA 2.5-inch 10K rpm SAS drives: 300, 128, 160, 256, 300 GB, 1.2 TB mas self-encrypting hard drive (SED HI	drives: 25 600 GB, 2 k; Up to (1	0, 500 GB, 1 2.4 TB max; ) 2.5-inch S/	, 2, 3 TB, 11 TB Up to (4) 3.5-ind ATA self-encryp	max; Up to th 15K rpm ting solid st	(4) 2.5-inch 10K rpm SAS drives: 300, 450, ate boot drive (SED S	SATA drives: 250, 300, 500 G 600 GB, 2.4 TB max; Up to (4 5D): 256 GB, 256 GB max; Up	B, 1 TB, 4 TB max; Up to (4) 1) 2.5-inch SATA solid state drives
Storage <sup>7,8</sup>	Up to (4) 3.5-inch 7200 rpm SATA 2.5-inch 10K rpm SAS drives: 300, 128, 160, 256, 300 GB, 1.2 TB max	drives: 25 600 GB, 2 k; Up to (1 DD): 500 G	0, 500 GB, 1 2.4 TB max; I ) 2.5-inch S/ B, 500GB m	, 2, 3 TB, 11 TB Up to (4) 3.5-ind ATA self-encryp ax; Note: Fourtl	max; Up to th 15K rpm ting solid st n drive occu	(4) 2.5-inch 10K rpm SAS drives: 300, 450, ate boot drive (SED S pies one external 5.2	SATA drives: 250, 300, 500 G 600 GB, 2.4 TB max; Up to (4 5D): 256 GB, 256 GB max; Up	B, 1 TB, 4 TB max; Up to (4) 1) 2.5-inch SATA solid state drives
Storage <sup>7,8</sup> Optical Storage <sup>9,10</sup>	Up to (4) 3.5-inch 7200 rpm SATA 2.5-inch 10K rpm SAS drives: 300, 128, 160, 256, 300 GB, 1.2 TB mas self-encrypting hard drive (SED HI	drives: 25 600 GB, 2 k; Up to (1 DD): 500 G VD+/-RW,	0, 500 GB, 1 2.4 TB max; ) 2.5-inch S <i>I</i> B, 500GB m Blu-ray Wri	, 2, 3 TB, 11 TB Up to (4) 3.5-ind ATA self-encryp ax; Note: Fourtl ter, 22-in-1 Med	max; Up to ch 15K rpm ting solid st n drive occu dia Card Rea	(4) 2.5-inch 10K rpm SAS drives: 300, 450, ate boot drive (SED S pies one external 5.2! der	SATA drives: 250, 300, 500 G 600 GB, 2.4 TB max; Up to (4 5D): 256 GB, 256 GB max; Up	B, 1 TB, 4 TB max; Up to (4)
Storage <sup>7,8</sup> Optical Storage <sup>9,10</sup> Drive Bays  Expansion Slots	Up to (4) 3.5-inch 7200 rpm SATA 2.5-inch 10K rpm SAS drives: 300, 128, 160, 256, 300 GB, 1.2 TB mas self-encrypting hard drive (SED HI DVD-ROM, DVD+/-RW, Slot-load D	drives: 25 600 GB, 2 k; Up to (1 DD): 500 G VD+/-RW, nal 3.5-inc	0, 500 GB, 1 2.4 TB max; ) 2.5-inch SA B, 500GB m Blu-ray Wri	, 2, 3 TB, 11 TB Up to (4) 3.5-ind ATA self-encryp ax; Note: Fourtl ter, 22-in-1 Med e: Fourth HDD o	max; Up to ch 15K rpm ting solid st n drive occu dia Card Rea ccupies one	(4) 2.5-inch 10K rpm SAS drives: 300, 450, ate boot drive (SED S pies one external 5.2! der external bay	SATA drives: 250, 300, 500 G 600 GB, 2.4 TB max; Up to (4 5D): 256 GB, 256 GB max; Up 5-inch bay	B, 1 TB, 4 TB max; Up to (4) I) 2.5-inch SATA solid state drives: to (1) 2.5-inch SATA
Storage <sup>7,8</sup> Optical Storage <sup>9,10</sup> Drive Bays Expansion Slots	Up to (4) 3.5-inch 7200 rpm SATA 2.5-inch 10K rpm SAS drives: 300, 128, 160, 256, 300 GB, 1.2 TB mas self-encrypting hard drive (SED HI DVD-ROM, DVD+/-RW, Slot-load D 2 external 5.25-inch bags, 3 interr 2 PCI Express Gen3 x16; 1 PCI Expr Professional 2D: NVIDIA NVS 3 Entry 3D: NVIDIA Quadr Mid-range 3D: NVIDIA Quadr Mid-range 3D: NVIDIA Quadr	drives: 25, 600 GB, 2 k; Up to (1 DD): 500 GVD+/-RW, nal 3.5-includes Gen3 × 00, NVIDI/10 410, NV to 2000, A	0, 500 GB, 1 2.4 TB max; ) 2.5-inch S/B, 500GB m Blu-ray Wri th bays, Note (8, 1 PCI Exp A NVS 310, N IDIA Quadro MD FirePro <sup>TI</sup>	, 2, 3 TB, 11 TB Up to (4) 3.5-ind ATA self-encryp ax; Note: Fourtl ter, 22-in-1 Mec e: Fourth HDD o ress Gen2 x8 m IVIDIA Quadro N 600, AMD FireF	max; Up to ch 15K rpm ting solid st n drive occu dia Card Rea ccupies one echanical/x⁴ IVS 450, NV ro™ V3900	(4) 2.5-inch 10K rpm SAS drives: 300, 450, ate boot drive (SED S: pies one external 5.2! der external bay 4 electrical; 1 PCI Expre IDIA NVS 510 , AMD FirePro™ V4900	SATA drives: 250, 300, 500 G 600 GB, 2.4 TB max; Up to (4 5D): 256 GB, 256 GB max; Up 5-inch bay ess Gen2 x4 mechanical/x1 el	B, 1 TB, 4 TB max; Up to (4) 4) 2.5-inch SATA solid state drives: to (1) 2.5-inch SATA lectrical; 1 Legacy PCI
Storage <sup>7,8</sup> Optical Storage <sup>9,10</sup> Drive Bays Expansion Slots Available Graphics <sup>11</sup>	Up to (4) 3.5-inch 7200 rpm SATA 2.5-inch 10K rpm SAS drives: 300, 128, 160, 256, 300 GB, 1.2 TB mas self-encrypting hard drive (SED HI DVD-ROM, DVD+/-RW, Slot-load D 2 external 5.25-inch bags, 3 interr 2 PCI Express Gen3 x16; 1 PCI Expr Professional 2D: NVIDIA NVS 3 Entry 3D: NVIDIA Quadr Mid-range 3D: NVIDIA Quadr Mid-range 3D: NVIDIA Quadr	drives: 25, 600 GB, 2 k; Up to (1 DD): 500 G VD+/-RW, nal 3.5-inc ess Gen3 x 00, NVIDIA o 410, NV o 2000, A o 4000, A	0, 500 GB, 1 2.4 TB max; ) 2.5-inch S/B, 500GB m Blu-ray Wri th bays, Note (8, 1 PCI Exp A NVS 310, N IDIA Quadro MD FirePro <sup>TI</sup> MD FirePro <sup>TI</sup>	, 2, 3 TB, 11 TB Up to (4) 3.5-ind TATA self-encryp ax; Note: Fourth ter, 22-in-1 Med e: Fourth HDD o ress Gen2 x8 m VIDIA Quadro N 600, AMD FireF * V5900 * V7900, NVIDIA*	max; Up to ch 15K rpm ting solid st n drive occu dia Card Rea ccupies one echanical/x <sup>4</sup> IVS 450, NV Pro™ V3900 A Quadro 50	(4) 2.5-inch 10K rpm SAS drives: 300, 450, ate boot drive (SED S: pies one external 5.2! der external bay 4 electrical; 1 PCI Expr IDIA NVS 510 , AMD FirePro™ V4900 00, NVIDIA Quadro K5	SATA drives: 250, 300, 500 G 600 GB, 2.4 TB max; Up to (4 5D): 256 GB, 256 GB max; Up 5-inch bay ess Gen2 x4 mechanical/x1 el	B, 1 TB, 4 TB max; Up to (4) 4) 2.5-inch SATA solid state drives to (1) 2.5-inch SATA lectrical; 1 Legacy PCI
Storage <sup>7,8</sup> Optical Storage <sup>9,10</sup> Orive Bays  Expansion Slots  Available Graphics <sup>11</sup>	Up to (4) 3.5-inch 7200 rpm SATA 2.5-inch 10K rpm SAS drives: 300, 128, 160, 256, 300 GB, 1.2 TB mas self-encrypting hard drive (SED HI DVD-ROM, DVD+/-RW, Slot-load D 2 external 5.25-inch bays, 3 interr 2 PCI Express Gen3 x16; 1 PCI Expressional 2D: NVIDIA NVS 3 Entry 3D: NVIDIA Quadr Mid-range 3D: NVIDIA Quadr High-end 3D: NVIDIA Quadr	drives: 25, 600 GB, 2 k; Up to (1 DD): 500 G VD+/-RW, and 3.5-inc ess Gen3 × 00, NVIDIA to 410, NV to 2000, A to 4000, A , Integrates	0, 500 GB, 1 2.4 TB max; 1) 2.5-inch S/ B, 500GB m Blu-ray Wri th bays, Note 8, 1 PCI Exp A NVS 310, N IDIA Quadro MD FirePro <sup>TI</sup> ed Intel/Real	, 2, 3 TB, 11 TB Up to (4) 3.5-ind TTA self-encryp ax; Note: Fourth tter, 22-in-1 Med e: Fourth HDD o ress Gen2 x8 m 4000, AMD FireF 4V5900 4V7900, NVIDIA ttek HD ALC262	max; Up to ch 15K rpm ting solid st n drive occu dia Card Rea ccupies one echanical/x dVS 450, NV Pro™ V3900 A Quadro 50 Audio, optic	(4) 2.5-inch 10K rpm SAS drives: 300, 450, ate boot drive (SED S: pies one external 5.2! der e external bay 4 electrical; 1 PCI Expru IDIA NVS 510 , AMD FirePro™ V4900 00, NVIDIA Quadro K5 onal HP Thin USB Pow	SATA drives: 250, 300, 500 G 600 GB, 2.4 TB max; Up to (4 5D): 256 GB, 256 GB max; Up 5-inch bay ess Gen2 x4 mechanical/x1 el	B, 1 TB, 4 TB max; Up to (4) 4) 2.5-inch SATA solid state drives to (1) 2.5-inch SATA lectrical; 1 Legacy PCI
Optical Storage <sup>9,10</sup> Optical Storage <sup>9,10</sup> Drive Bays Expansion Slots Available Graphics <sup>11</sup> Audio	Up to (4) 3.5-inch 7200 rpm SATA 2.5-inch 10K rpm SAS drives: 300, 128, 160, 256, 300 GB, 1.2 TB ma: self-encrypting hard drive (SED HI DVD-ROM, DVD+/-RW, Slot-load D 2 external 5.25-inch bays, 3 interr 2 PCI Express Gen3 x16; 1 PCI Expr Professional 2D: NVIDIA NVS 3 Entry 3D: NVIDIA Quadr Mid-range 3D: NVIDIA Quadr High-end 3D: NVIDIA Quadr Creative Recon3D PCIe Audio Card Dual integrated Intel GbE LAN; Infi Front: 2 USB 3.0, 1 USB 2.0, 1	drives: 25 600 GB, 2 x; Up to (1 DD): 500 G VD+/-RW, nal 3.5-inc ess Gen3 x 00, NVIDI/ 0 410, NV 0 2000, A 0 4000, A , Integrate neon TPM	0, 500 GB, 1.  2.4 TB max; 1) 2.5-inch Si, 2) 2.5-inch Si, 500GB mB, 500GB mB, Blu-ray Writh bays, Notick, 1, PCI Exp ANVS 310, NDIA Quadrorm MD FirePromed Intel/Real 1.2 Control a standard, a	, 2, 3 TB, 11 TB Up to (4) 3.5-in TA self-encryp ax; Note: Fourth ter, 22-in-1 Mec e: Fourth HDD o ress Gen2 x8 m IVIDIA Quadro N 600, AMD Firef *V5900 * V7900, NVIDIA tek HD ALC262 ler; Optional Br 1 microphone in	max; Up to th 15K rpm ting solid st n drive occu dia Card Rea ccupies one echanical/x NS 450, NV ro™ V3900 A Quadro 50 Audio, optic oadcom NIC n, 1 headph	(4) 2.5-inch 10K rpm: SAS drives: 300, 450, ate boot drive (SED S: pies one external 5.2: der external bay 4 electrical; 1 PCI Expre IDIA NVS 510 , AMD FirePro™ V4900 00, NVIDIA Quadro K5 onal HP Thin USB Pow ; Optional Intel NIC	SATA drives: 250, 300, 500 G 600 GB, 2.4 TB max; Up to (4 600 GB, 2.56 GB max; Up 55-inch bay  ess Gen2 x4 mechanical/x1 el 6000, NVIDIA Quadro 6000, N ered Speakers	B, 1 TB, 4 TB max; Up to (4) 4) 2.5-inch SATA solid state drives: to (1) 2.5-inch SATA lectrical; 1 Legacy PCI
Storage <sup>7,8</sup> Optical Storage <sup>9,10</sup> Orive Bays  Expansion Slots  Available Graphics <sup>11</sup> Audio  Network  Ports	Up to (4) 3.5-inch 7200 rpm SATA 2.5-inch 10K rpm SAS drives: 300, 128, 160, 256, 300 GB, 12. TB max self-encrypting hard drive (SED HI DVD-ROM, DVD+/-RW, Slot-load D 2 external 5.25-inch bays, 3 interr 2 PCI Express Gen3 x16; 1 PCI Express Gen3 x16; 1 PCI Express Gen3 x16; 1 PCI Expressional 2D: NVIDIA NVS 3 Entry 3D: NVIDIA Quadr Mid-range 3D: NVIDIA Quadr High-end 3D: NVIDIA Quadr Creative Recon3D PCIe Audio Card Dual integrated Intel GbE LAN; Infi Front: 2 USB 3.0, 1 USB 2.0, 1 I Rear: 2 USB 3.0, 4 USB 2.0, 1 and 12 TB AND	drives: 25, 600 GB, 2 c; Up to (1 DD): 500 G DD): 500 G VD+/-RW, nal 3.5-incess Gen3 > 00, NVIDI/0 0 410, NV 0 2000, A o 4000, A , Integrate neon TPM EEE 1394. udio in, 1 a dard keybo	o, 500 GB, 1 2.4 TB max; ) 2.5-inch 5/8 ) 2.5-inch 5/8 Blu-ray Wri h bays, Note  &, 1 PCI Exp h NVS 310, N IDIA Quadro MD FirePro MD FirePro d Intel/Real 1.2 Control a standard, udio out, 1 n bard, USB Sn	, 2, 3 TB, 11 TB Up to (4) 3.5-ind ATA self-encryp ax; Note: Fourth ter, 22-in-1 Med e: Fourth HDD o ress Gen2 x8 m IVIDIA Quadro N 600, AMD Firef * V5900 * V7900, NVIDIA ttek HD ALC262 ler; Optional Br 1 microphone in nicrophone in, 2	max; Up to ch 15K rpm ting solid st drive occu dia Card Rea ccupies one echanical/x VIVS 450, NV ro™ V3900 A Quadro 50 Audio, optic boadcom NIC n, 1 headph PS/2, 2 RJ-4	(4) 2.5-inch 10K rpm: SAS drives: 300, 450, ate boot drive (SED 5: pies one external 5.2! der external bay 4 electrical; 1 PCI Expre IDIA NVS 510 , AMD FirePro™ V4900 00, NVIDIA Quadro K5 onal HP Thin USB Pow ; Optional Intel NIC one out, HP 22-in-1 M 5 to integrated Gigabit	SATA drives: 250, 300, 500 G 600 GB, 2.4 TB max; Up to (4 60): 256 GB, 256 GB max; Up 5-inch bay  ess Gen2 x4 mechanical/x1 el 0 6000, NVIDIA Quadro 6000, N ered Speakers  ledia Card Reader (optional) LAN, 1 serial via optional ada	B, 1 TB, 4 TB max; Up to (4) 4) 2.5-inch SATA solid state drives to (1) 2.5-inch SATA  lectrical; 1 Legacy PCI  IVIDIA Tesla C2075  pter, Rear power button with LED
Optical Storage <sup>9,10</sup> Optical Storage <sup>9,10</sup> Orive Bays Expansion Slots Available Graphics <sup>11</sup> Audio Aletwork Ports  Input Devices	Up to (4) 3.5-inch 7200 rpm SATA 2.5-inch 10K rpm SAS drives: 300, 128, 160, 256, 300 GB, 1.2 TB mas self-encrypting hard drive (SED HI DVD-ROM, DVD+/-RW, Slot-load D 2 external 5.25-inch bays, 3 interr 2 PCI Express Gen3 x16; 1 PCI Expr Professional 2D: NVIDIA NVS 3 Entry 3D: NVIDIA Quadr Mid-range 3D: NVIDIA Quadr High-end 3D: NVIDIA Quadr Creative Recon3D PCIe Audio Card Dual integrated Intel GbE LAN; Infi Front: 2 USB 3.0, 1 USB 2.0, 1 al Internal: 6 USB 2.0	drives: 25, 600 GB, 2 c; Up to (1 DD): 500 G UD+/-RW, nal 3.5-incess Gen3 > 00, NVIDI/0 0 410, NV 0 2000, A o 4000, A , Integrate neon TPM EEE 1394. udio in, 1 a dard keybot, USB Last	o, 500 GB, 1 2.4 TB max; ) 2.5-inch 5/B , 5.00GB m Blu-ray Wri h bays, Note 68, 1 PCI Exp A NVS 310, N IDIA Quadro MD FirePro MD FirePro Ed Intel/Real 1.2 Control a standard, udio out, 1 n output Deard, USB Sn eer Scroll Mo	, 2, 3 TB, 11 TB Up to (4) 3.5-ind ATA self-encryp ax; Note: Fourth ter, 22-in-1 Med e: Fourth HDD o ress Gen2 x8 m IVIDIA Quadro N 600, AMD Firef * V5900 * V7900, NVIDIA ttek HD ALC262 ler; Optional Br 1 microphone in nicrophone in, 2	max; Up to ch 15K rpm ting solid st drive occu dia Card Rea ccupies one echanical/x VIVS 450, NV ro™ V3900 A Quadro 50 Audio, optic boadcom NIC n, 1 headph PS/2, 2 RJ-4	(4) 2.5-inch 10K rpm: SAS drives: 300, 450, ate boot drive (SED 5: pies one external 5.2! der external bay 4 electrical; 1 PCI Expre IDIA NVS 510 , AMD FirePro™ V4900 00, NVIDIA Quadro K5 onal HP Thin USB Pow ; Optional Intel NIC one out, HP 22-in-1 M 5 to integrated Gigabit	SATA drives: 250, 300, 500 G 600 GB, 2.4 TB max; Up to (4 60): 256 GB, 256 GB max; Up 5-inch bay  ess Gen2 x4 mechanical/x1 el 0 6000, NVIDIA Quadro 6000, N ered Speakers  ledia Card Reader (optional) LAN, 1 serial via optional ada	B, 1 TB, 4 TB max; Up to (4) 4) 2.5-inch SATA solid state drives to (1) 2.5-inch SATA  lectrical; 1 Legacy PCI  IVIDIA Tesla C2075  pter, Rear power button with LED
Storage <sup>7,8</sup> Optical Storage <sup>9,10</sup> Drive Bays	Up to (4) 3.5-inch 7200 rpm SATA 2.5-inch 10K rpm SAS drives: 300, 128, 160, 256, 300 GB, 1.2 TB mas self-encrypting hard drive (SED HI DVD-ROM, DVD+/-RW, Slot-load D 2 external 5.25-inch bays, 3 interr 2 PCI Express Gen3 x16; 1 PCI Expr Professional 2D: NVIDIA NVS 3 Entry 3D: NVIDIA Quadr Mid-range 3D: NVIDIA Quadr High-end 3D: NVIDIA Quadr Creative Recon3D PCIe Audio Card Dual integrated Intel GbE LAN; Infi Front: 2 USB 3.0, 4 USB 2.0, 1 al Internal: 6 USB 2.0	drives: 25, 600 GB, 2 (100 GB, 2	o, 500 GB, 1 2.4 TB max; ) 2.5-inch 5/B, 500GB m Blu-ray Wri h bays, Note 6, 1 PCI Exp A NVS 310, N, IDIA Quadro MD FirePro MD FirePro d Intel/Real 1.2 Control a standard, udio out, 1 n bard, USB Sn ber Scroll Mc cm)	, 2, 3 TB, 11 TB Up to (4) 3.5-ind ATA self-encryp ax; Note: Fourth ter, 22-in-1 Med e: Fourth HDD o ress Gen2 x8 m IVIDIA Quadro N 600, AMD Firef * V5900 * V7900, NVIDIA ttek HD ALC262 ler; Optional Br 1 microphone in nicrophone in, 2	max; Up to ch 15K rpm ting solid st drive occu dia Card Rea ccupies one echanical/x VIVS 450, NV ro™ V3900 A Quadro 50 Audio, optic boadcom NIC n, 1 headph PS/2, 2 RJ-4	(4) 2.5-inch 10K rpm: SAS drives: 300, 450, ate boot drive (SED 5: pies one external 5.2! der external bay 4 electrical; 1 PCI Expre IDIA NVS 510 , AMD FirePro™ V4900 00, NVIDIA Quadro K5 onal HP Thin USB Pow ; Optional Intel NIC one out, HP 22-in-1 M 5 to integrated Gigabit	SATA drives: 250, 300, 500 G 600 GB, 2.4 TB max; Up to (4 60): 256 GB, 256 GB max; Up 5-inch bay  ess Gen2 x4 mechanical/x1 el 0 6000, NVIDIA Quadro 6000, N ered Speakers  ledia Card Reader (optional) LAN, 1 serial via optional ada	B, 1 TB, 4 TB max; Up to (4) 4) 2.5-inch SATA solid state drives to (1) 2.5-inch SATA  lectrical; 1 Legacy PCI  IVIDIA Tesla C2075  pter, Rear power button with LED
Optical Storage <sup>9,10</sup> Drive Bays Expansion Slots Available Graphics <sup>11</sup> Audio Network Ports Input Devices Dimensions (H x W x D)	Up to (4) 3.5-inch 7200 rpm SATA 2.5-inch 10K rpm SAS drives: 300, 128, 160, 256, 300 GB, 1.2 TB mas self-encrypting hard drive (SED HI DVD-ROM, DVD+/-RW, Slot-load D 2 external 5.25-inch bays, 3 interr 2 PCI Express Gen3 x16; 1 PCI Expr Professional 2D: NVIDIA NVS 3 Entry 3D: NVIDIA Quadr Mid-range 3D: NVIDIA Quadr High-end 3D: NVIDIA Quadr Creative Recon3D PCIe Audio Card Dual integrated Intel GbE LAN; Infi Front: 2 USB 3.0, 4 USB 2.0, 1 al Internal: 6 USB 2.0 PS/2 standard keyboard, USB stanu USB SpaceExplorer, USB SpacePilo 17.5 x 6.75 x 18.3 in (44.45 x 17.1	drives: 25, 600 GB, 2 (10 CB) 2 (10 CB) 2 (10 CB) 3 (10 CB) 3 (10 CB) 4 (10 CB) 5 (10 CB) 6 (10	0, 500 GB, 1.4 TB max; 1) 2.5-inch S/A TB max; 1) 2.5-inch S/A TB max; 1) 2.5-inch S/A TB MB Lu-ray Writh bays, Notice, 1, 10 LE MB MD Fire Pro™ MD	, 2, 3 TB, 11 TB Up to (4) 3.5-in TA self-encryp ax; Note: Fourth ter, 22-in-1 Mec e: Fourth HDD o ress Gen2 x8 m IVIDIA Quadro N 600, AMD Firef *V5900 * V7900, NVIDIA tek HD ALC262 ler; Optional Br 1 microphone in, 2 nart Card Keybo use	max; Up to th 15K rpm tin 15K rpm tin 15K rpm tin 16K	(4) 2.5-inch 10K rpm: SAS drives: 300, 450, ate boot drive (SED S) pies one external 5.2: der external bay 4 electrical; 1 PCI Expre IDIA NVS 510 , AMD FirePro™ V4900 00, NVIDIA Quadro K5 onal HP Thin USB Pow ; Optional Intel NIC one out, HP 22-in-1 M 15 to integrated Gigabit stical scroll mouse, US	SATA drives: 250, 300, 500 G 600 GB, 2.4 TB max; Up to (4 600 GB, 2.56 GB, 256 GB max; Up 5-inch bay  ess Gen2 x4 mechanical/x1 el 600, NVIDIA Quadro 6000, N ered Speakers  ledia Card Reader (optional) LAN, 1 serial via optional ada B 2-button optical scroll mou	B, 1 TB, 4 TB max; Up to (4) 4) 2.5-inch SATA solid state drives to (1) 2.5-inch SATA  lectrical; 1 Legacy PCI  IVIDIA Tesla C2075  pter, Rear power button with LED use, USB 3-button optical mouse,

Screen images courtesy of Autodesk.

- This system may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See microsoft.com/windows/windows-7/ for details.
- 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.

  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.
- Intel's numbering is not a measurement of higher performance.

  Z620 systems configured with E5-1600 series processors may not add a 2nd processor. To support two processors, E5-2600 series processor must be chosen.
- The specifications shown in this column represent the following: (all core maximum turbo steps, one core maximum turbo steps). Turbo boost stepping occurs in 100MHz increments. Processors that do not have turbo functionality are denoted as N/A. 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. Please visit intel.com/technology/turboboost for more information.
- Each processor supports up to 4 channels of DDR3 memory. To realize full performance at least 1 DIMM must be inserted into each channel.
- 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
- For hard drives, 1 GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less.
- 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.
- As Blu-ray is a new format containing 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. AMD graphics are not supported when there is greater than 32 GB of system memory present.
- HP Care Pack Services extend service contracts beyond the standard warranties. Service starts from date of hardware purchase. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at hp.com/go/carepack. Service levels and response times for HP Care Packs may vary depending on your geographic location.

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