

**MW31 Qualification Vender List**

Rev. 1.0

Intel CPU											
Product Name	Code Name	Q-Spec	Stepping	Cache	System Bus	# of Cores	Processor Base Frequency	Max Turbo Frequency	TDP	Memory Types	Processor Graphics
<b>Intel® Xeon® Processor E3-1200v5 series</b>											
Intel® Xeon® Processor E3-1220v5	SKYLAKE-S	QJFX	R0	8MB		4	3.0 GHz	3.5 GHz	80W	DDR4-2133	None
Intel® Xeon® Processor E3-1225v5	SKYLAKE-S	QJ7D	R0	8MB		4	3.3 GHz	3.7 GHz	80W	DDR4-2133	Intel® HD 530 Graphics
Intel® Xeon® Processor E3-1230v5	SKYLAKE-S	QJ79	R0	8MB		4	3.4 GHz	3.8 GHz	80W	DDR4-2133	None
Intel® Xeon® Processor E3-1235LV5	SKYLAKE-S	QJGV	R0	8MB		4	2.0 GHz	3.0 GHz	25W	DDR4-2133	Intel® HD 530 Graphics
Intel® Xeon® Processor E3-1240v5	SKYLAKE-S	QJ78	R0	8MB	5 GT/s	4	3.5 GHz	3.9 GHz	80W	DDR4-2133	None
Intel® Xeon® Processor E3-1240LV5	SKYLAKE-S	QJHG	R0	8MB		4	2.1 GHz	3.2 GHz	25W	DDR4-2133	None
Intel® Xeon® Processor E3-1245v5	SKYLAKE-S	QJ70	R0	8MB		4	3.5 GHz	3.9 GHz	80W	DDR4-2133	Intel® HD 530 Graphics
Intel® Xeon® Processor E3-1260LV5	SKYLAKE-S	QJGT	R0	8MB		4	2.9 GHz	3.9 GHz	45W	DDR4-2133	None
Intel® Xeon® Processor E3-1270v5	SKYLAKE-S	QJ7A	R0	8MB		4	3.6 GHz	4.0 GHz	80W	DDR4-2133	None
Intel® Xeon® Processor E3-1275v5	SKYLAKE-S	QJ6Z	R0	8MB		4	3.6 GHz	4.0 GHz	80W	DDR4-2133	Intel® HD 530 Graphics
Intel® Xeon® Processor E3-1280v5	SKYLAKE-S	QJHF	R0	8MB		4	3.7 GHz	4.0 GHz	80W	DDR4-2133	None
Intel® Skylake S Processor G3900 (2MB Cache, 2.80GHz)	SKYLAKE-S	QJZU	S0	2 MB		2	2.8 GHz	None	47W	DDR4-2133	
Intel® Skylake S Processor G3900T (2MB Cache, 2.60GHz)	SKYLAKE-S	QJZS	S0	2 MB		2	2.6 GHz	None	35W	DDR4-2133	
Intel® Skylake S Processor G3920 (92MB Cache, 2.90GHz)	SKYLAKE-S	QJZW	S0	2 MB		2	2.9 GHz	None	47W	DDR4-2133	
Intel® Skylake S Processor G4400 (3MB Cache, 3.30GHz)	SKYLAKE-S	QJZK	S0	3 MB	8 GT/s	2	3.3 GHz	None	47 W (54W)	DDR4-2133	Intel® HD Graphics 510
Intel® Skylake S Processor G4520 (3MB Cache, 3.60GHz)	SKYLAKE-S	QJZM	S0	3 MB	8 GT/s	2	3.6 GHz	None	47 W (51W)	DDR4-2133	Intel® HD Graphics 530
Intel® Skylake S Processor G4400T (3MB Cache, 2.90GHz)	SKYLAKE-S	QJZQ	S0	3 MB	8 GT/s	2	2.9 GHz	None	35W	DDR4-2133	Intel® HD Graphics 510
Intel® Skylake S Processor G4500T (3MB Cache, 3.00GHz)	SKYLAKE-S	QK1A	S0	3 MB	8 GT/s	2	3 GHz	None	35W	DDR4-2133	Intel® HD Graphics 530
Intel® Skylake S Processor G4500 (3MB Cache, 3.50GHz)	SKYLAKE-S	QJZJ	S0	3 MB	8 GT/s	2	3.5 GHz	None	47W (51 W)	DDR4-2133	Intel® HD Graphics 530
Intel® Skylake S Processor i3-6100T (3MB Cache, 3.20GHz)	SKYLAKE-S	QJZE	S0	3 MB	8 GT/s	2	3.2 GHz	None	35W	DDR4-2133	Intel® HD Graphics 530
Intel® Skylake S Processor i3-6320 (3MB Cache, 3.20GHz)	SKYLAKE-S	QJZ8	S0	4 MB	8 GT/s	2	3.2 GHz	None	35W (51W)	DDR4-2133	Intel® HD Graphics 530
Intel® Skylake S Processor i3-6300T (4MB Cache, 3.30GHz)	SKYLAKE-S	QJZC	S0	4 MB	8 GT/s	2	3.3 GHz	None	35W	DDR4-2133	Intel® HD Graphics 530
Intel® Skylake S Processor i3-6100 (3MB Cache, 3.70GHz)	SKYLAKE-S	QJZG	S0	3 MB	8 GT/s	2	3.7 GHz	None	47W (51W)	DDR4-2133	Intel® HD Graphics 530
Intel® Skylake S Processor i3-6300 (4MB Cache, 3.80GHz)	SKYLAKE-S	QJZ9	S0	4 MB	8 GT/s	2	3.8 GHz	None	35W (51W)	DDR4-2133	Intel® HD Graphics 530
<b>Memory</b>											
Product Name	Memory Type	Module Supplier	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins	Note
<b>UDIMM DDR4 2133MHz</b>											
TS1GLH64V1H 2R/512Mx8/CL15	DDR4	Transcend	8GB	SEC	2R x 8	1.2v	2133MHz	N/A	13 - 16	288-pin	
78.C1GM3.AF10B 8GB UNB	DDR4	Apacer	8GB	Skhynix	2R x 8	1.2v	2133MHz	N/A	13 - 16	288-pin	
CT8G4DFD8213.16FA1 8GB	DDR4	CRUCIAL	8GB	Micron	2R x 8	1.2v	2133MHz	N/A	15 - 19	288-pin	
84G48G93MC-21OMCGNGF15T	DDR4	UMAX	8GB	Micron	2R x 8	1.2v	2133MHz	N/A	15 - 19	288-pin	
KVR21N15D8/8	DDR4	Kingston	8GB	Skhynix	2R x 8	1.2v	2133MHz	N/A	13 - 16	288-pin	
TS512MLH64V1H 1R/512Mx8/CL15	DDR4	Transcend	4GB	SEC	1R x 8	1.2v	2133MHz	N/A	13 - 16	288-pin	
75.B93G2.G000B 4GB UNB	DDR4	Apacer	4GB	Skhynix	1R x 8	1.2v	2133MHz	N/A	13 - 16	288-pin	
CT4G4DFS8213.8FA1 4GB	DDR4	CRUCIAL	4GB	Micron	1R x 8	1.2v	2133MHz	N/A	15 - 19	288-pin	
84G44G93MC-21OMCALGF15T	DDR4	UMAX	4GB	Micron	1R x 8	1.2v	2133MHz	N/A	15 - 19	288-pin	
KVR21N1558/4	DDR4	Kingston	4GB	Skhynix	1R x 8	1.2v	2133MHz	N/A	13 - 16	288-pin	
<b>ECC UDIMM DDR4 2133MHz</b>											
M4C0-8GSSMCRG	DDR4	INNODISK	8GB	Samsung	2R x 8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
TS1GLH72V1H	DDR4	Transcend	8GB	Samsung	2R x 8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
PE42133C158GV5	DDR4	Panram	8GB	SKhynix	2R x 8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
78.C1GM4.AF10B	DDR4	Apacer	8GB	SKhynix	2R x 8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
CT8G4WFD8213.18FA1	DDR4	Crucial	8GB	Micron	2R x 8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
M391A1G43DB0-CPB	DDR4	Samsung	8GB	Samsung	2R x 8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
T2D4C10561163	DDR4	TeamGroup	8GB	Samsung	2R x 8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
M4C0-4GSSLCRG	DDR4	INNODISK	4GB	Samsung	1R x 8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
TS512MLH72V1H	DDR4	Transcend	4GB	Samsung	1R x 8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
PE42133C154GV5	DDR4	Panram	4GB	SKhynix	1R x 8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
78.B1GM4.AF00B	DDR4	Apacer	4GB	SKhynix	1R x 8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
CT4G4WFS8213.9FA1	DDR4	Crucial	4GB	Micron	1R x 8	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
<b>SATA Device</b>											
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache (MB)	Rotational speed	Encryption	FW
<b>SATA Hard Drive</b>											
WD30EZR	SATA	WD	3.5-inch		3 TB	SATAIII 6 Gb/s	WD Caviar Green	64 MB	IntelliPower		
HUA722010CLA330	SATA	Hitachi	3.5-inch		1 TB	SATAII 3 Gb/s	HGST's Ultrastar A7K2000	32 MB	7200 RPM		
ST1000DM003	SATA	Seagate	3.5-inch		1 TB	SATAIII 6 Gb/s	Barracuda	64 MB	7200 RPM		
HDS723030ALA640	SATA	Hitachi	3.5-inch		3 TB	SATAIII 6 Gb/s	HGST's Deskstar 7K3000	64 MB	7200 RPM		
WD4000FYYZ	SATA	WD	3.5-inch		4 TB	SATAIII 6 Gb/s	WD Re	64 MB	7200 RPM		
ST2000DM001	SATA	Seagate	3.5-inch		2 TB	SATAIII 6 Gb/s	Barracuda	64 MB	7200 RPM		
WD20EZR	SATA	WD	3.5-inch		2 TB	SATAIII 6 Gb/s	WD Caviar Green	64 MB	IntelliPower		
ST500LT012	SATA	Seagate	2.5-inch		500 GB	SATAII 3 Gb/s	Momentus Thin	16 MB	5400 RPM		
ST500LM000	SATA	Seagate	2.5-inch		500 GB	SATAIII 6 Gb/s	Laptop Thin SSHD	64 MB	5400 RPM		
WD3200LPVX	SATA	WD	2.5-inch		320 GB	SATAIII 6 Gb/s	WD Caviar Blue	8 MB	5400 RPM		
WD5000LPVX	SATA	WD	2.5-inch		500 GB	SATAIII 6 Gb/s	WD Caviar Black	8 MB	5400 RPM		
WD10JPVX	SATA	WD	2.5-inch		1 TB	SATAIII 6 Gb/s	WD Caviar Black	8 MB	5400 RPM		
ST1000LM014	SATA	Seagate	2.5-inch		1 TB	SATAIII 6 Gb/s	Laptop Thin SSHD	64 MB	5400 RPM		
WD10JFCX(NAS HDD)	SATA	WD	2.5-inch		1 TB	SATAIII 6 Gb/s	NASware 2.0	16 MB	5400 RPM		
WD5000AAXX	SATA	WD	3.5-inch		500 GB	SATAIII 6 Gb/s	WD Caviar Blue	16 MB	7200 RPM		
WD10EZEX	SATA	WD	3.5-inch		1 TB	SATAIII 6 Gb/s	WD Caviar Blue	64 MB	7200 RPM		
ST500DM002	SATA	Seagate	3.5-inch		500 GB	SATAIII 6 Gb/s	Barracuda	16 MB	7200 RPM		
WD1001X06XDTL	120GB SSD+1TB HDD	WD	2.5-inch		120GB SSD+1TB HDD	SATAIII 6 Gb/s	WD Black <sup>2</sup>	8MB	7200 RPM		
WD1003FZEX	SATA	WD	3.5-inch		1 TB	SATAIII 6 Gb/s	Barracuda	64 MB	7200 RPM		
ST1000NC000	SATA	Seagate	3.5-inch		1 TB	SATAIII 6 Gb/s	WD Caviar Green	64 MB	7200 RPM		
WD3200BEXX	SATA	WD	2.5-inch		320GB	SATAIII 6 Gb/s	WD Black	16 MB	7200 RPM		
WD10JFCX(NAS HDD)	SATA	WD	2.5-inch		1TB	SATAIII 6 Gb/s	NASware 3.0	32 MB	7200 RPM		
ST500VT000	SATA	Seagate	2.5-inch		500GB	SATAIII 6 Gb/s	Video HDD	32 MB	7200 RPM		
HTS541010A9E680	SATA	HGST	2.5-inch		1TB	SATAIII 6 Gb/s	Laptop Thin HDD	8 MB	5400 RPM		
MQ02ABD100H	SATA	TOSHIBA	2.5-inch		1TB	SATAIII 6 Gb/s	Hybrid drive	64 MB	5400 RPM		
ST500LM021	SATA	Seagate	2.5-inch		500GB	SATAIII 6 Gb/s	Laptop Thin HDD	32 MB	7200 RPM		
<b>SATA Solid State Drive</b>											

Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache (MB)	Rotational speed	Memory Components	MAX Performance (R/W)
TS128GSSD720	SSD	Transcend	2.5-inch		128 GB	SATAIII 6 Gb/s	SSD720			MLC	560MB/s / 540MB/s
ASP90053-128GM	SSD	ADATA	2.5-inch		128 GB	SATAIII 6 Gb/s	Premier Pro SP900			MLC	550MB/s / 520MB/s
CT120M500SSD1	SSD	Crucial	2.5-inch		120 GB	SATA3.1 / 6 Gb/s	M500			MLC	500MB/s / 130MB/s
SKC300537A	SSD	Kingston	2.5-inch		240 GB	SATAIII 6 Gb/s	KC300			MLC	525MB/s / 500MB/s
VTR1-25SAT3	SSD	OCZ	2.5-inch		240 GB	SATAIII 6 Gb/s	Vector 150			MLC	550MB/s / 530MB/s
WD1001X06XDTL	SSD	WD	2.5-inch		120GB SSD+1TB HDD	SATAIII 6 Gb/s	WD Black <sup>2</sup>			MLC	350MB/s / 140MB/s
SDSSDHP-256G	SSD	SanDisk	2.5-inch		256 GB	SATAIII 6 Gb/s	Ultra <sup>®</sup> Plus			MLC	530MB/s / 445MB/s
M27PD256HCGM	SSD	Samsung	2.5-inch		256 GB	SATAIII 6 Gb/s	840 Pro Series			MDX	540MB/s / 520MB/s
SD65B1M-064G	SSD	SanDisk	2.5-inch		64 GB	SATAIII 6 Gb/s	SSD X110			MDX	495MB/s / 155MB/s
SD65B1M-128G	SSD	SanDisk	2.5-inch		128 GB	SATAIII 6 Gb/s	SSD X110			MDX	515MB/s / 310MB/s
SD65B1M-256G	SSD	SanDisk	2.5-inch		256 GB	SATAIII 6 Gb/s	SSD X110			MDX	515MB/s / 465MB/s
SSD5C2BP240G4	SSD	Intel	2.5-inch		240 GB	SATAIII 6 Gb/s	730 Series			MLC	550MB/s / 470MB/s
SD7UB3Q-128G-1022	SSD	SanDisk	2.5-inch		128 GB	SATAIII 6 Gb/s	X300s			MLC	510MB/s / 300MB/s
SD75B65-256G-1122	SSD	SanDisk	2.5-inch		256 GB	SATAIII 6 Gb/s	X300s			MLC	520MB/s / 460MB/s

**SATA Optical Disk Device**

Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface	Buffer Memory	Write Speed	Read Speed	Access Time
DVD-231DW		Pioneer	5.25"			Serial ATA 2.6	198K Bytes	DVD-ROM 18X CD-ROM 40X	NA	Random Seek Time DVDROM: 100ms
DVR-S19LBK		Pioneer	5.25"			Serial ATA 2.6	2M Bytes	DVD-/+R: 24X DVD-RAM: 12X DVD-R/+R DL: 12X DVD+RW: 8X DVD-RW: 6X CD-R: 40X CD-RW: 32X	DVD-ROM (SL) DVD+/-R: 16X DVD+RW/-RW: 13X DVD-ROM(DL),DVD-R/+R DL: 12X DVD-RAM: 12X CD-ROM: 16X	TBD
iHAS324		LITEON	5.25"			Serial ATA 2.6	TBD	DVD+R: 24X DVD-R: 24X DVD+R DL: 8X DVD-R DL: 8X DVD-RAM: 6X CD-R: 48X	DVD-ROM: 16X DVD+RW: 8X DVD-RW: 6X CD-ROM: 16X	140ms
DV-W524GSB		TEAC	5.25"			Serial ATA 2.6	2M Bytes	DVD+R (single layer): 24x DVD+RW: 8x DVD+R DL: 12x DVD-R: 6x DVD-RW: 12x DVD-RAM: 5x CD-R: 48x CD-RW: 32x	DVD-ROM: 16x CD-ROM: 48x DVD-RAM: 5x	TBD
BDR-S07XLT		Pioneer	5.25"			Serial ATA 2.6	4M Bytes	BD-R/BD-R DL 12X, 10X, 8X, 6X, 4X, 2X BD-RE SL/DL: 2X BD-R LTH: 2X BD-R SL/DL: 10X/8X, 12X, 8X, 6X, 4X, 2X, 1X BD-R LTH: 6X DVD-ROM SL: 16X DVD-R DL: 12X DVD-R/+R: 16X DVD-R DL / DVD+R DL: 12X DVD-RW / DVD+RW: 12X DVD-RAM: 5X CD-ROM: 40X CD-R: 40X CD-RW: 24X	BD-R/BD-R DL 12X, 10X, 8X, 6X, 4X, 2X BD-RE SL/DL: 2X BD-R LTH: 2X BD-R SL/DL: 10X/8X, 12X, 8X, 6X, 4X, 2X, 1X BD-R LTH: 6X DVD-R DL: 12X DVD-R/+R: 16X DVD-R DL / DVD+R DL: 12X DVD-RW / DVD+RW: 12X DVD-RAM: 5X CD-ROM: 40X CD-R: 40X CD-RW: 24X	Average Seek Time BD: 180 mms DVD (-R/RW): 170 mms CD: 160 mms Random Seek Time BD: 160 mms DVD (-R/RW): 150 mms CD: 140 mms

**M.2**

Product Name	Type	Vendor	Form Factor	Keying notches	Capacity	Interface Speed	Series	Cache (MB)	Rotational speed	Encryption	FW
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**M.2 SSD**

Product Name	Type	Vendor	Form Factor	Keying notches	Capacity	Interface Speed	Series	Cache (MB)	Rotational speed	Encryption	FW
SM2280S3-120G	M.2 SSD	Kingston	2280	B+M Key	120GB	SATAIII 6 Gb/s					
SSM128GPTC2-S91	M.2 SSD	Phison	2280	B+M Key	128GB	SATAIII 6 Gb/s					
DGM28-A28D81SCAQC	M.2 SSD	Innodisk	2280	B+M Key	128GB	SATAIII 6 Gb/s					
TS256GMTS800	M.2 SSD	Transcend	2280	B+M Key	256GB	SATAIII 6 Gb/s					
SSD5CKHW360A4	M.2 SSD	Intel	2280	B+M Key	360GB	SATAIII 6 Gb/s					
CT128M550SSD4	M.2 SSD	Crucial	2280	B+M Key	128GB	SATAIII 6 Gb/s					
SSM064GPT2-S91	M.2 SSD	Phison	2280	B+M Key	64GB	SATAIII 6 Gb/s					
TS128GMTS800	M.2 SSD	Transcend	2280	B+M Key	128GB	SATAIII 6 Gb/s					
RBU-SNS8100S3/128GD	M.2 SSD	Kingston	2280	B+M Key	128GB	SATAIII 6 Gb/s					
RBU-SNS8100S3/256GD	M.2 SSD	Kingston	2280	B+M Key	256GB	SATAIII 6 Gb/s					
IM2S3138E-128GB	M.2 SSD	ADATA	2280	B+M Key	128GB	SATAIII 6 Gb/s					
IM2S3138E-256GB	M.2 SSD	ADATA	2280	B+M Key	256GB	SATAIII 6 Gb/s					
PX-128M6G	M.2 SSD	Plextor	2242	B+M Key	128GB	SATAIII 6 Gb/s					
TS128GMTS600	M.2 SSD	Transcend	2260	B+M Key	128GB	SATAIII 6 Gb/s					
X300s SD7SN3Q-064G	M.2 SSD	SanDisk	2280	B+M Key	64GB	SATAIII 6 Gb/s					
X300s SD7UN3Q-128G	M.2 SSD	SanDisk	2280	B+M Key	128GB	SATAIII 6 Gb/s					
X300s SD7SN3Q-128G	M.2 SSD	SanDisk	2280	B+M Key	128GB	SATAIII 6 Gb/s					
X300s SD7SN3Q-256G	M.2 SSD	SanDisk	2280	B+M Key	256GB	SATAIII 6 Gb/s					
SSD5CKGW080A401	M.2 SSD	Intel	2280	B+M Key	80GB	SATAIII 6 Gb/s					
SSD5CKW120H6	M.2 SSD	Intel	2280	B+M Key	120GB	SATAIII 6 Gb/s					
SSD5CKW180H6	M.2 SSD	Intel	2280	B+M Key	180GB	SATAIII 6 Gb/s					
SSD5CKJF240A5	M.2 SSD	Intel	2280	B+M Key	240GB	SATAIII 6 Gb/s					
TIM8Q34256GMB104	M.2 SSD	Team	2280	B+M Key	256GB	SATAIII 6 Gb/s					

**M.2 PCI Express**

PX-G128M6e	M.2 PCI Express	Plextor	2280	B+M Key	128GB	PCIe Gen2.0 x 2					
M2VPV128HDGM	M.2 PCI Express	Samsung	2280	B+M Key	128GB	PCIe Gen3.0 x 4					
M2ZHPV128HDGM	M.2 PCI Express	Samsung	2280	B+M Key	128GB	PCIe Gen3.0 x 4					
ND280C-256GM-MT	M.2 PCI Express	TECHCOMP	2280	B+M Key	256GB	PCIe Gen2.0 x 2					
ND280C-512GM-MT	M.2 PCI Express	TECHCOMP	2280	B+M Key	512GB	PCIe Gen2.0 x 2					
M2VPV512HDGL	M.2 PCI Express	Samsung	2280	B+M Key	512GB	PCIe Gen3.0 x 4					

**M.2 Storage Crd**

CMT701-1	Mezzanine L Type	Gigabyte	2280	M Key		Gen3 x4 bus			
Graphics Card									
Product Name	Processor Cores	Memory Bandwidth (GB/sec)	FW	OpenGL	Microsoft DirectX	Graphics Card Power (W)	NVIDIA SLI / AMD CrossFire Ready	Note	
GIGABYTE Graphics Cards									
GV-N210D3-1GI				3.1	DX10.1	300W			
GV-N460SE-1GI				4	DX11	450W			
GV-N520D3-1GI				4.2	DX11	300W			
GV-N520OC-1GI				4.2	DX11	300W			
GV-N550WF2-1GI				4.2	DX11.1	400W			
GV-N560OC-1GI				4.1	DX11.1	500W			
GV-N560UD-1GI				4.3	DX11.1	550W			
GV-N610D3-1GI				4.3	DX11.1	300W			
GV-N620D3-1GL				4.3	DX11.1	350W			
GV-N630-2GI				4.3	DX11.1	350W			
GV-N680OC-3GD				4.4	DX11.2	500W			
GV-N680OC-2GD				4.3	DX11.1	550W			
GV-NTITANXD5-12GD				4.4	DX12	600W			
GV-R4650C-1GI				2.1	DX10.1	400W			
GV-R6850C-1GD				4.1	DX11	500W			
GV-R7970C-3GD				4.2	DX11.1	550W			
GV-R939XG1 GAMING-8GD				4.4	DX12	600W			
Others									
QUADRO 410									
Quadro 600									
Quadro 4000									
Quadro K2200									
Quadro K620									
RAID Cards									
Model	RAID-on-Chip Controller	Host Bus Type	Internal Ports	Internal Connectors	External Ports	External Connectors	Data Transfer Rates	FW	Note
GIGABYTE Storage Cards									
RA201-A	LSI SAS 2208	PCIe- x8 Gen3 x8 bus	2	Mini-SAS for 8x SAS	-	-	6Gb/s ports		
CRA3338	LSI SAS 3008	PCIe- x8 Gen3 x8 bus	2	Mini-SAS for 8x SAS	-	-	12Gb/s ports		
LAN Cards									
Product Name	Connector	Power consumption	FW	# of Ports	System Interface Type	Data rate	Note		
GIGABYTE LAN Cards									
CLN782	SFP+	-		Dual	Mezzanine Gen2 x4	10Gb/s per port			
Thunderbolt card									
Product Name	Connector	Format	FW	# of Ports	Interface	Data rate	Note		
GIGABYTE Thunderbolt cards									
CTB7121	Intel® D5L5320	Mezzanine L type card	NPCT420 AA0WX	1 x DisplayPort (input) 1 x Thunderbolt (output)	Gen2 x4 bus				
TPM									
Product Name	Vendor	Specification	Chipset	Note					
GC-MUFL	Gigabyte	30.31x14.72x1.6 (mm), 14 pin	NPCT420 AA0WX						
GC-MHWT TPM	Gigabyte	- 20.32 x 14.73 mm - 2 x 7pin pitch - 2.0 mm - LPC	SLB9635T T1.2						
PSU									
Product Name	Vendor	Input Voltage	Wattage	Application	Efficiency	FW	Note		
EMG600AWT, 80PLUS GOLD	Enermax	100/240v	600W	Desktop	80Gold				
EMG800EWT, 80PLUS GOLD	Enermax	100/240v	800W	Desktop	80Gold				
D525AF-01	DELL	100/240v	525W	Desktop	N/A				
ST-1000E-AZ	Seventeam	100/240v	1000w	Desktop	N/A				
FSP250-60HSC	FSP	220v	250W	Desktop	N/A				
FSP250-60HEN	FSP	220v	250W	Desktop	N/A				
GPS-300AB-100 AH	Delta	220v	300W	Desktop	N/A				
SSP-650RT Active PFC F3	Seasonic	100/240v	650W	Desktop	N/A				
FSP450-50ERN	FSP	100/240v	450W	Desktop	N/A				
ST-500PFL	Seventeam	100/240v	500W	Desktop	N/A				
ST-450PWL	Seventeam	100/240v	450W	Desktop	N/A				
RX-450-ACAA-D3	CoolMaster	100/240v	450W	Desktop	N/A				
FSP400-60GHN(85)	FSP	100/240v	400W	Desktop	N/A				
SF-450P14HE	SuperFlower	100/240v	450W	Desktop	N/A				
SF-450R14SE	SuperFlower	100/240v	450W	Desktop	N/A				
SF-500P14HE	SuperFlower	100/240v	500W	Desktop	N/A				
USB Device									
Product Name	Type	Vendor	Capacity	Note					
USB 3.0									
WDBACW0010HBK-00	USB HDD	WD							
S1-D53 TURBO	USB Dock	CyberSLIM							
UH200	USB HUB	Uptech							
SK-2500 800U3	USB HDD	AKITIO							
WDBACX7500ABK-01	USB HDD	WD							
FCR-HS3	USB Card Reader	Kingston							
CB-SATAU3-6	USB SATA	VANTEC							
SDC280-016G	USB Flash Disk	SanDisk							
SDC280-064G	USB Flash Disk	SanDisk							
T25U3-6GUASP	USB SATA (UASP)	CyberSLIM							
USB 2.0									
TS640GSJ25M2	USB HDD	Transcend							
C310	USB Webcam	Logitech							
WLI-UC-G300N	USB WLAN	BUFFALO							
USB-BT21	USB Bluetooth	ASUS							
DWM-156	USB 3G	D-LINK							
DVSM-PC58U2V	USB ODD(Slim)	BUFFALO							
e-TAU108-32	USB ODD(Slim)	LITEON							
S270	USB Card Reader	SEVAS							
NST-D100	USB Dock	NexStar							
GT-U8000	USB TV	Gigabyte							
G330	USB Headphone	Logitech							
UE-200TX-G2	USB LAN	PCI							
GLUC2020DW6	USB Display Output	IOGEAR							
F510	USB Joystick	Logitech							
KB 110	USB Keyboard	Genius							
M-UAE96	USB Mouse	Fujitsu							
C-U0008	USB Wireless 2.4G Keyboard	Logitech							
M-R0028	USB Wireless 2.4G Mouse	Logitech							
E9270	USB Wireless 5.8G Keyboard	Rapoo							

E7800	USB Wireless 5.8G Mouse	Rapoo		
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