"MW21-SE0" Qualification Vender List Ver:2.0

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
Intel® Xeon® Processor E3-1200v5 series											
Intel® Xeon® Processor E3-1220v5	SKYLAKE-S	Q JFX	R0	8MB	5 GT/s	4	3.0 GHz	3.5 GHz	80W	DDR4-2133	None
Intel® Xeon® Processor E3-1240v5	SKYLAKE-S	Q J78	R0	8MB	5 GT/s	4	3.5 GHz	3.9 GHz	80W	DDR4-2133	None
Intel® Xeon® Processor E3-1270v5	SKYLAKE-S	Q J7A	R0	8MB	5 GT/s	4	3.6 GHz	4.0 GHz	80W	DDR4-2133	None
Intel® Xeon® Processor E3-1280v5	SKYLAKE-S	Q JHF	R0	8MB	5 GT/s	4	3.7 GHz	4.0 GHz	80W	DDR4-2133	None
4th Generation Intel® Core™ i7/i5/i3/Pentium/Celeron Processors series											
Intel ® Skylake S Processor G3900 (2MB Cache, 2.80GHz)	Skylake S	QJZU	S0	2 MB		2	2.8 GHz	None	47W	DDR3L / DDR4	
Intel ® Skylake S Processor G3900T (2MB Cache, 2.60GHz)	Skylake S	QJZS	S0	2 MB		2	2.6 GHz	None	35W	DDR3L / DDR4	
Intel ® Skylake S ProcessorG3920 (92MB Cache, 2.90GHz)	Skylake S	QJZW	S0	2 MB		2	2.9 GHz	None	47W	DDR3L / DDR4	
Intel ® Skylake S Processor G4400 (3MB Cache, 3.30GHz)	Skylake S	QJZK	S0	3 MB	8 GT/s	2	3.3 GHz	None	54W	DDR4-1866/2133, DDR3L-1333/1600 @ 1.35V	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	51W	DDR4-1866/2133, DDR3L-1333/1600 @ 1.35V	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	DDR4-1866/2133, DDR3L-1333/1600 @ 1.35V	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	DDR4-1866/2133, DDR3L-1333/1600 @ 1.35V	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	51 W	DDR4-1866/2133, DDR3L-1333/1600 @ 1.35V	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	DDR4-1866/2133, DDR3L-1333/1600 @ 1.35V	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	51W	DDR4-1866/2133, DDR3L-1333/1600 @ 1.35V	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	DDR4-1866/2133, DDR3L-1333/1600 @ 1.35V	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	51 W	DDR4-1866/2133, DDR3L-1333/1600 @ 1.35V	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	51 W	DDR4-1866/2133, DDR3L-1333/1600 @ 1.35V	Intel® HD Graphics 530

Memory

Product Name	Memory Type	Module Supplier	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins	Note
ECC UDIMM											
M4C0-8GSSMCRG	DDR4	INNODISK	8GB	Samsung		1.2v	2133MHz	ECC Unbuffer	15	288-pin	
M4C0-4GSSLCRG	DDR4	INNODISK	4GB	Samsung		1.2v	2133MHz	ECC Unbuffer	15	288-pin	
TS512MLH72V1H	DDR4	Transcend	4GB	Samsung	1R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
TS1GLH72V1H	DDR4	Transcend	8GB	Samsung	2R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
PED42133C158GVS	DDR4	Panram	8GB	SKhynix		1.2v	2133MHz	ECC Unbuffer	15	288-pin	
PED42133C154GVS	DDR4	Panram	4GB	SKhynix		1.2v	2133MHz	ECC Unbuffer	15	288-pin	
78.B1GM4.AF00B	DDR4	Apacer	4GB	SKhynix		1.2v	2133MHz	ECC Unbuffer	15	288-pin	
78.C1GM4.AF10B	DDR4	Apacer	8GB	SKhynix		1.2v	2133MHz	ECC Unbuffer	15	288-pin	
M391A1G43DB0-CPB	DDR4	Samsung	8GB	Samsung	2R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	

CT8G4WFD8213.18FA1	DDR4	Crucial	8GB	Micron	2R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
CT4G4WFS8213.9FA1	DDR4	Crucial	4GB	Micron	1R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
T4D4C10S61163	DDR4	TeamGroup	8GB	Samsung	1R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
T4C8C10S61164	DDR4	TeamGroup	4GB	Samsung	1R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
CMA6-3GA01DAR01MEO	DDR4	acpi	8GB			1.2v	2133MHz	ECC Unbuffer	15	288-pin	
KVR21E15D8/8HA	DDR4	Kingston	8GB	SKhynix	2R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
KVR21E15S8/4HA	DDR4	Kingston	4GB	SKhynix	2R	1.2v	2133MHz	ECC Unbuffer	15	288-pin	
Seagate HDD											
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption	FW
Seagate Enterprise Capacity 2.5 HDD											
ST9250610NS	SATA	Seagate	2.5"	N/A	250GB	6Gb/s	Constellation 2	64MB	7200	N/A	SN02
ST2000NX0253	SATA	Seagate	2.5"	N/A	2TB	6Gb/s	Constellation 2	128MB	7200	N/A	SN02
Seagate Enterprise Capacity 3.5 HDD											
ST4000NM0033	SATA	Seagate	3.5"	512N	4TB	6Gb/s	ES.3	128MB	7200	N/A	
WD HDD											
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption	FW
Datacenter											
WD6001FSYZ	SATA	WD	3.5"	512E	6TB	6Gb/s	WD Re	128MB	7200	N/A	
WD4000FYYZ-01UL1B1	SATA	WD	3.5"	N/A	4TB	6Gb/s	WD Re	64MB	7200	N/A	01UL1B1
WD4000FYYZ-01UL1B0	SATA	WD	3.5"	N/A	4TB	6Gb/s	WD Re	64MB	7200	N/A	01UL1B0
Workstation											
WD2500BHTZ-04JCPV0	SATA	WD	2.5"	N/A	250GB	6Gb/s	WD VelociRaptor	64MB	10K	N/A	04JCPV0
HGST HDD											
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption	FW
Enterprise Hard Drives											
HUA722010CLA330	SATA	HGST	3.5"	512	1TB	3Gb/s	Ultrastar A7K2000	32MB	7200	N/A	
HUS724040ALA640	SATA	HGST	3.5"	512N	4TB	6Gb/s	Ultrastar 7K4000	64MB	7200	N/A	8B0
HMS5C4040BLE640	SATA	HGST	3.5"	512e	4TB	6Gb/s	MegaScale DC	64MB	5400	N/A	5D0
HUH728080ALE604	SATA	HGST	3.5"	512e	8TB	6Gb/s	Ultrastar He8	128MB	7200	N/A	514
HUS726060ALE610	SATA	HGST	3.5"	512e	6TB	6Gb/s	Ultrastar 7K6000	128MB	7200	N/A	517
Toshiba HDD											
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption	FW
MG04ACA500E	SATA	Toshiba	3.5"	N/A	5TB	6Gb/s		128MB	7200	N/A	FP3B
SSD											
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	FW	Note			
Hard drive											
ASX1000LS7-240GM	SSD	ADATA	SATA	2.5"	240GB	6Gb/s					
XF1212-1A0512	SSD	Seagate	SATA	2.5"	480GB	-					

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									
GC-MSLZ2	LSI SAS 2008	PCIe- x8 Gen2 x8 bus	2	Mini-SAS for 8x SAS	-	-	6Gb/s ports		
RA200-8	LSI SAS 2308	PCIe- x8 Gen3 x8 bus	2	Mini-SAS for 8x SAS	-	-	6Gb/s ports		
RA201-A	LSI SAS 2208	PCIe- x8 Gen3 x8 bus	2	Mini-SAS for 8x SAS	-	-	6Gb/s ports		
CRA3338	LSI SAS 3208	PCIe- x8 Gen3 x8 bus	2	Mini-SAS for 8x SAS	-	-	12Gb/s ports		
LSI RAID Controller Cards									
MegaRAID SAS 9260-8i	LSISAS2008	x8 lane PCI Express® 2.0	8	2 Mini-SAS SFF8087 (vertical orientation)	-	-	Up to 6Gb/s per port		
MegaRAID SAS 9240-8i	LSISAS2008	x8 lane PCI Express® 2.0	8	2 Mini-SAS SFF8087 (vertical orientation)	-	-	Up to 6Gb/s per port		
PMC RAID Cards (Adaptec)									
Adaptec ASR-8805		8-lane PCIe Gen3	2	Two internal mini SAS HD (SFF-8643)	2	two external mini SAS HD (SFF-8644)	12 Gb/s per port		
Adaptec ASR-8885Q		8-lane PCIe Gen3	2	Two internal mini SAS HD (SFF-8643)	2	two external mini SAS HD (SFF-8644)	12 Gb/s per port		
Adaptec RAID 6805T	-	8-Lane PCIe Gen2	8	2 Internal, SFF-8087, Top-Mounted	-	-	6 Gb/s per port		
PMC Host Bus Adapters									

Adaptec ASR-81605ZQ	-	8-lane PCIe Gen3	4	Four internal mini SAS HD (SFF-8643).	4	Four internal mini SAS HD (SFF-8643).	12 Gb/s per port		

LAN Cards							
Product Name	Connector	Power consumption	FW	# of Ports	System Interface Type	Data rate	Note
GIGABYTE LAN Cards							
GC-MNXE21	SFP+	-		Dual	PCIe x8 Gen3 x8	10Gb/s per port	
GC-MLBZ1	SFP+	-		Dual	PCIe x8 Gen2 x8	10Gb/s per port	
CLN4831	SFP+	-		Dual			
CLN4832	SFP+	-		Dual			