

**R161-R13 Qualification Vender List**

Please contact FAE support for below orange blocks

Intel CPU										
Product Name	Code Name	Q-Spec	Stepping	Cache	System Bus	# of Cores	Processor Base Frequency	Max Turbo Frequency	TDP	Memory Types
8th Generation Intel® Core™ X Processors										
Intel Skylake-X i9-9980XE	SKYLAKE-X	QR0U	M0	24.75MB	8 GT/s DM	18	3.3 GHz	4.6 GHz	165 W	DDR4-2933
Intel Skylake-X i9-9960X	SKYLAKE-X	QR0S	M0	22MB	8 GT/s DM	16	3.5 GHz	4.6 GHz	165 W	DDR4-2933
Intel Skylake-X i9-9940X	SKYLAKE-X	QR0W	M0	19.25MB	8 GT/s DM	14	3.3 GHz	4.6 GHz	165 W	DDR4-2933
Intel Skylake-X i9-9920X	SKYLAKE-X	QR0R	M0	19.25MB	8 GT/s DM	12	3.5 GHz	4.6 GHz	165 W	DDR4-2933
Intel X-series Processors i9-10980XE	Cascade Lake	QT9A	L-1	24.75 MB	8 GT/s DM	18	3.0 GHz	4.6 GHz	165 W	DDR4-2933
Intel X-series Processors i9-10940X	Cascade Lake	QT9B	L-1	19.25MB	8 GT/s DM	14	3.3 GHz	4.6 GHz	165 W	DDR4-2933
Intel X-series Processors i9-10920X	Cascade Lake	QT9C	L-1	19.25MB	8 GT/s DM	12	3.5 GHz	4.6 GHz	165 W	DDR4-2933
Intel X-series Processors i9-10900X	Cascade Lake	QTDN	L-1	19.25MB	8 GT/s DM	10	3.7 GHz	4.5 GHz	165 W	DDR4-2933
Intel Skylake-X i9-7980XE	SKYLAKE-X	QNFV	M0	24.75 MB		18	2.6 GHz	4.2 GHz	165W	DDR4-2666
Intel Skylake-X i9-7960X	SKYLAKE-X	QNFV	M0	22MB		16	2.8 GHz	4.2 GHz	165W	DDR4-2666
Intel Skylake-X i9-7940X	SKYLAKE-X	QNFV	M0	19.25MB		14	3.1 GHz	4.3 GHz	165W	DDR4-2666
Intel Skylake-X i9-7920X	SKYLAKE-X	QNH9	M0	16.5MB		12	2.9 GHz	4.3 GHz	140W	DDR4-2666
Intel Skylake-X i9-7900X	SKYLAKE-X		M0	13.75 MB		10	3.3 GHz	4.3 GHz	140 W	DDR4-2666
Intel Skylake-X i7-7820X	SKYLAKE-X	QN4X	U0	11 MB		8	3.6 GHz	4.3 GHz	140 W	DDR4-2666
Intel Skylake-X i7-7800X	SKYLAKE-X	QMW7		8.25 MB		6	3.5 GHz	4.0 GHz	140 W	DDR4-2400
Memory										
Product Name	Memory Type	Module Supplier	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins
Non ECC UDIMM										
HX440C19PB3K2/16	DDR4	Kingston	8GB	Kingston	1Rx8	1.35v	4000MHz	ECC Unbuffer	19	288-pin
HX436C17PB3K4/64	DDR4	Kingston	16GB	Kingston	2Rx8	1.35v	3600MHz	ECC Unbuffer	17	288-pin
KVR26N19S8/8	DDR4	Kingston	8GB	Kingston	1Rx8	1.2v	2666MHz	ECC Unbuffer	19	288-pin
KVR26N19D8/16	DDR4	Kingston	16GB	Kingston	2Rx8	1.2v	2666MHz	ECC Unbuffer	19	288-pin
F4-3200C14S-64GAK	DDR4	G.SKILL	8GB		2Rx8	1.35v	3200MHz	ECC Unbuffer	14	288-pin
F4-3200C14S-8GAK	DDR4	G.SKILL	8GB		1Rx8	1.35v	3200MHz	ECC Unbuffer	14	288-pin
CMK32GX4M4B3200C14R(上4支做測試)	DDR4	Vengeance	32GB		2Rx8	1.35v	3200MHz	ECC Unbuffer	14	288-pin
F4-3200C14Q2-64GAK	DDR4	G.SKILL	8GB	Samsung		1.35v	3200MHz	ECC Unbuffer		288-pin
F4-3600C15Q2-64GAK	DDR4	G.SKILL	8GB	Samsung		1.35v	3600MHz	ECC Unbuffer		288-pin
F4-3600C15Q-32GAK	DDR4	G.SKILL	8GB	Samsung		1.35v	3600MHz	ECC Unbuffer		288-pin
HDD (SAS HDD may need RAID Card support)										
Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM	Encryption
Seagate Enterprise Capacity 2.5 HDD										
ST2000NX0253	SATA	Seagate	2.5"	512E	2TB	6Gb/s	Exos 7E2000(Enterprise Capacity V.3)	128MB	7200	N/A
ST1000NX0313	SATA	Seagate	2.5"	512e	1TB	6Gb/s	Exos 7E2000 (Enterprise Capacity V.3)	128MB	7200	N/A
ST2000NX0243	SATA	Seagate	2.5"	4Kn	2TB	6Gb/s	Exos 7E2000 (Enterprise Capacity V.3)	128MB	7200	N/A
SSD										
Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	FW	Note		
MZ-7LH1T9NE 883 DCT Series	SSD	Samsung	2.5"	SATA	1.92TB	6Gb/s				
SSDSC2KG019T8 D3-S4610 Series	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s				
SSDSC2KB019T8 D3-S4510 Series	SSD	Intel	2.5"	SATA	1.92TB	6Gb/s				
KHK61RSE960G	SSD	Toshiba	2.5"	SATA	960GB	6Gb/s				
SSDSC2KB960G701 (Series DC S4500)	SSD	Intel	2.5"	SATA	960GB	6Gb/s				
XA960LE10063	SSD	Seagate	2.5"	SATA	960GB	6Gb/s				
XA480LE10063	SSD	Seagate	2.5"	SATA	480GB	6Gb/s				
MZ-7LH1T9NE 883 DCT Series	SSD	Samsung	2.5"	SATA	1.92TB	6Gb/s				

SRE100-960G00210000	SSD	Phison	2.5"	SATA	960GB	6Gb/s			
SRE100-480G00210000	SSD	Phison	2.5"	SATA	480GB	6Gb/s			
SEDC500M/3840G DC500M Series	SSD	Kingston	2.5"	SATA	3.84TB	6Gb/s			
SEDC500M/1920G DC500M Series	SSD	Kingston	2.5"	SATA	1.92TB	6Gb/s			
SEDC500M/960G DC500M Series	SSD	Kingston	2.5"	SATA	960GB	6Gb/s			
SEDC500M/480G DC500M Series	SSD	Kingston	2.5"	SATA	480GB	6Gb/s			
ASR1100SS-240GT-B	SSD	Adata	2.5"	SATA	240GB	6Gb/s			
MTFDDAK3T8TDS-1AW1ZABYY (5300 PRO)	SSD	Micron	2.5"	SATA	3.84TB	6Gb/s			
MTFDDAK1T9TDS-1AW1ZABYY (5300 PRO)	SSD	Micron	2.5"	SATA	1.92TB	6Gb/s			

**PCIe SSD**

Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note		
PCIe SSD									
Netlist N1951 E3 NS1951AH33T2 Gen3 x8 3.2TB	PCIe	Netlist	PCI-E 3.0	PCIe(NVMe)	3.2TB	-			
Samsung PM1725b MZPLL3T2HAJQ PCIe Gen3 x8 3.2TB	PCIe	Samsung	PCI-E 3.0	PCIe(NVMe)	3.2TB	-			

**U.2**

Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note		
U.2									
SSDPE2KE032T801 P4610 Series	U.2	Intel	2.5"	SFF8639(NVMe)	3.2TB	Gen3 x4			
SSDPE2KX020T801 P4510 Series	U.2	Intel	2.5"	SFF8639(NVMe)	2TB	Gen3 x4			
MZWLL3T2HAJQ PM1725b Series	U.2	Samsung	2.5"	SFF8639(NVMe)	3.2TB	Gen3 x4			
MZQLW1T9HMJP PM963 Series	U.2	Samsung	2.5"	SFF8639(NVMe)	1.92TB	Gen3 x4			
MTFDHAL3T2TCU 9200 Series	U.2	Micron	2.5"	SFF8639(NVMe)	3.2TB	Gen3 x4			
KCD51LUG960G CD5 Series	U.2	Toshiba	2.5"	SFF8639(NVMe)	960GB	Gen3 x4			
XC100E55	U.2	Techman	2.5"	SATA (NVMe)	1.6TB	-			
MZ-QLB1T9N 983 DCT Series	U.2	Samsung	2.5"	SFF8639(NVMe)	1.92TB	-			
KCD51LUG960G CD5 Series	U.2	Toshiba	2.5"	SFF8639(NVMe)	960GB	-			
NS1951UF13T8 Netlist N1951 D2 Series	U.2	Netlist	2.5"	SFF8639(NVMe)	3.84TB	-			
NS1551U711T9 Netlist N1551 D2 Series	U.2	Netlist	2.5"	SFF8639(NVMe)	1.92TB	-			
SSDPE2KE032T701 P4600 Series	U.2	Intel	2.5"	SFF8639(NVMe)	3.2TB	-			
SSDPE2KX010T701 P4500 Series	U.2	Intel	2.5"	SFF8639(NVMe)	1TB	-			
XC100E55	U.2	Techman	2.5"	SFF8639(NVMe)	1.6TB	-			
MTFDHBE3T8TDF 7300 Pro Series	U.2	Micron	2.5"	SFF8639(NVMe)	3.84TB	Gen3 x4			
P34UTM-03T2U-ST DERA D5457 Series	U.2	DERA	2.5"	SFF8639(NVMe)	3.2TB	Gen3 x4			

**M.2**

Product Name	Type	Vendor	Form Factor	Interface	Capacity	Interface Speed	Note		
M.2									
MZHPV512HDGL	M.2	Samsung	2280	PCIe	512GB				
SSDPEKKA256G801 P4101 Series 256GB	M.2	Intel	2280	PCIe(NVMe)	256GB				
SSDPEKKA010T801 P4101 Series 1TB	M.2	Intel	2280	PCIe(NVMe)	1TB				
AF1TSMJA-YT1 ATP N600c Series 1TB	M.2	ATP	2280	PCIe(NVMe)	1TB				
Intel Optane Memory Series MEMPEK1J032GA	M.2	intel	2280	PCIe(optane memory)	32GB				
Intel Optane Memory Series MEMPEK1J032GA	M.2	Intel	2242	PCIe(optane memory)	16GB				
IM2P33F8-512GD	M.2	ADATA	2280	PCIe(NVMe)	512GB	-			

**RAID Cards**

Model	RAID-on-Chip Controller	Host Bus Type	Internal Ports	Internal Connectors	External Ports	External Connectors	Data Transfer Rates	Note	
LSI RAID Controller Cards									
MegaRAID SAS 9460-16i	SAS3516 dual-core RAID-on-Chip (ROC)	x8 lane PCI Express® 3.1	8	4 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0		
MegaRAID SAS 9460-8i	SAS3508 dual-core RAID-on-Chip (ROC)	x8 lane PCI Express® 3.1	8	2 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0		

**LSI Host Bus Adapters (HBAs)**

LSI SAS 9400-16i	SAS3416	x8 lane PCI Express® 3.1	16	4 x Mini-SAS HD SFF-8643	-	-	12Gb/s SAS 3.0			
Microsemi RAID Cards										
SmartRAID 3154-16i	PM8236	8-Lane PCIe Gen3	16	4 x Internal, SFF-8643	-	-	12 Gb/s per port			
Microsemi Host Bus Adapters										
SmartHBA 2100-8i	PM8222	8-Lane PCIe Gen3	8	2 x Internal, SFF-8643	-	-	12 Gb/s per port			
LAN Cards										
Product Name	Connector	System Interface Type	# of Ports	System Interface	Data rate	Note				
GIGABYTE LAN Cards										
CLN4121	RJ-45	PCIe x4 Gen3 x4	single		10Gb/s per port	INTEL X550-AT				
CLN4222	RJ-45	PCIe x4 Gen3 x4	Dual		10Gb/s per port	INTEL X550-AT2				
CLN4314	RJ-45	PCIe x4 Gen2 x4	Quad		1Gb/s per port	INTEL i350-AM4				
CLN4522	RJ-45	PCIe x8 Gen2 x8	Dual							
CLN4751	QSFP+	PCIe x8 Gen3 x8	Single		40Gb/s per port	INTEL XL710				
CLN4752	QSFP+	PCIe x8 Gen3 x8	Dual		40Gb/s per port	INTEL XL710				
CLN4831	SFP+	PCIe x8 Gen2 x8	Single		10Gb/s per port	INTEL 82599EN				
CLN4832	SFP+	PCIe x8 Gen2 x8	Dual		10Gb/s per port	INTEL 82599ES				
GC-MLBZ1	SFP+	PCIe x8 Gen2 x8	Dual		10Gb/s per port	Broadcom BCM57810S				
GC-MNXE21	SFP+	PCIe x8 Gen3 x8	Dual		10Gb/s per port	Mellanox ConnectX-3				
USB Device										
Product Name	Type	Vendor	Capacity	Note						
USB 3.0										
GoFlex STAA500305	HDD	Seagate	500G							
S1-DS3-Plus	Device	CyberSLIM								
TOSHIBA CANVIO BASIC	HDD	Toshiba	500G							
NA317U+	Device	ineo								
SST-TS13	Device	Silver Stone								
S1-DS3-Plus	Device	CyberSLIM								
MB981U3-1S	Device	ICYDOCK								
i310-SB3(6G)	Device	STARDOM								