



LAB AND ENGINEERING

Skylake FlacheSAN1L-UN Approved Vendor List (AVL)

Description

This document is to present the vendor components that are qualified and approved to be used in conjunction with Premio enclosure. The list is curated from Premio lab test results, as well as from AVL and QVL of the aforementioned components. Items unlisted do not reflect on their incompatibility rather than they have yet looked upon. Disqualified items may be listed explicitly. Items on the list are subject to change.

Enclosures

FlacheSAN1L-UN

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CPU AVL

This list is compiled based on the compatibility between CPU and motherboard.

Socket	Family	Number	Core	Frequency	Cache	TDP
SP3	Naples	7551	32	2.0GHz	64M	180W
SP3	Naples	7451	24	2.3GHz	64M	180W
SP3	Naples	7601	32	2.2GHz	64M	180W
SP3	Naples	7351P	16	2.4GHz	64M	155/170W
SP3	Naples	7351	16	2.4GHz	64M	155/170W



Memory AVL

This list is compiled based on the compatibility between memory module and motherboard.

Type	Speed	DIMM	Size	Vendor	Module	Specs	Cell
DDR4	2400	RDIMM	16GB	Samsung	M393A2K40BB1	PC4-19200	Samsung
DDR4	2400	RDIMM	32GB	Hynix	HMA84GR7AFR4N-VK	PC4-21300	Hynix



IO Card AVL

This list is compiled based on the compatibility between the host IO cards and the JBOD.

IO Card	Vendor	Name	Model	Chipset	Host Bus	PCIe Lane	Xfer Rate	Int. Port	Ext. Port	Connector	Form Factor
IOM	Broadcom		AOC-S2208L-H8iR	LSI SAS 2208	PCIe Gen3	x8					LP
			AOC-S2308L-L8i	LSI SAS 2308	PCIe Gen3	x8					LP
			AOC-S3008L-L8i	LSI SAS 3008	PCIe Gen3	x8					LP
			AOC-S3108L-H8iR	LSI SAS 3108	PCIe Gen3	x8					LP
			AOC-SAS2LP-H8iR	LSI SAS 2108	PCIe Gen2						LP
			AOC-SAS2LP-MV8	SAS							LP
			AOC-SLG3-4E2P			PCIe Gen3	x8				
Network Card	Qlogic		QLE2562		PCI-E 2.0	x8	8 Gb/s FC		2 SFP+		LP
			QLE2672		PCI-E 3.0	x4	16 Gb/s FC		2 SFP+		LP
	Supermicro		SGP-i2		PCI-E 2.0	x4	1 GbE		2 RJ45		LP
			SGP-i4		PCI-E 2.0	x4	1 GbE		4 RJ45		LP
	Supermicro		STG-b4S		PCI-E 3.0	x8	10 GbE		4 SFP+		LP
	Supermicro		STG-i2T		PCI-E 2.0	x8	10 GbE		2 RJ45		LP
	Supermicro		STGN-i2S		PCI-E 2.0	x8	10 GbE		2 SFP+		LP
	Mellanox	ConnectX-3	CX354A		PCIe Gen3	x8	56Gb/s IB or 40GbE		2	QSFP	LP
	Mellanox		CX353A		PCIe Gen3	x8	56Gb/s IB or 40GbE		1	QSFP	LP
	Mellanox	ConnectX-4	CX456A		PCIe Gen3	x8	100Gb/s IB or GbE				LP
	Mellanox		CX415A		PCIe Gen3	x8	100Gb/s IB or GbE				LP
	Mellanox		CX416A		PCIe Gen3	x8	100Gb/s IB or GbE				LP
	Intel		X520	82599	PCIe Gen3	x8	10GbE		2	SFP+	LP
	Intel		XL710		PCIe Gen3	x8	40GbE		2	SFP+	LP
	Intel		X710-DA4		PCIe Gen3	x8			4	SFP+	LP
	Intel		X540-T2	540	PCIe Gen2	x8	10GbE	0	2	RJ-45	LP
	Intel		I350-T4V2		PCIe Gen2	x8	1GbE	0	2	RJ-45	LP

	Qlogic		QLE2563		PCIe Gen3	x8					LP
	Qlogic		QLE2672		PCIe Gen3	x8					LP
	Qlogic		QLE3242		PCIe Gen3	x8		2	RJ-45		LP
	HotLava		HL-100G2Q-XL	XL710	PCIe Gen3	x8	40GbE	1	QSFP		LP
	Atto		FC-322E				32Gb FC				LP
SAS Card	Broadcom	MegaRAID	SAS 9286-8e	SAS2208	PCIe Gen3	x8	6Gb/s	0	8	SFF-8088	LP
		HBA	SAS 9207-8e	SAS2308	PCIe Gen3	x8	6Gb/s	0	8	SFF-8087	LP
		HBA	SAS 9207-4i4e	SAS2308	PCIe Gen3	x8	6Gb/s	4	4	SFF-8087/8E	LP
		HBA	SAS 9305-24i	SAS3224 IOC	PCIe Gen3	x8	12Gb/s	24	0	SFF-8644	LP
		HBA	SAS 9305-16e	SAS3224 IOC	PCIe Gen3	x8	12Gb/s	0	16	SFF-8644	LP
		HBA	SAS 9300-8e	SAS3008 IOC	PCIe Gen3	x8	12Gb/s	0	8	SFF-8644	LP
		HBA	SAS 9300-16e	SAS3008 IOC	PCIe Gen3	x8	12Gb/s	0	16	SFF-8644	LP
		HBA	SAS 9300-4i4e	SAS3008 IOC	PCIe Gen3	x8	12Gb/s	4	4	SFF-8643/44	LP
		MegaRAID	SAS 9380-8i8e	SAS3108 ROC	PCIe Gen3	x8	12Gb/s	8	8	SFF-8643/44	LP
		MegaRAID	SAS 9380-8e	SAS3108 ROC	PCIe Gen4	x8	12Gb/s	0	8	SFF-8644	LP
	Adaptec		ASR-71605								LP
	ATTO		H12F0				12Gb/s		16		LP
Storage Card	Samsung		SM1715		PCIe Gen3	x8	PCIe NVMe				LP
	Kingston		EP1000		PCIe Gen3	x8	PCIe NVMe				LP



HDD AVL

This list is compiled based on the compatibility between hard drives and expander. Echostreams backplane is used as a passive medium between those components. Only drives with 2.5" form factor are supported by the enclosures.

Vendor	Model	Type	Gen	FW	Capacity	Size	Cache	RPM	
WD	WD9001BKHG	SAS	6Gb/s	SR03	900GB	2.5"	32MB	10K RPM	
	WD6001BKHG	SAS	6Gb/s	SR03	600GB	2.5"	32MB	10K RPM	
	WD4501BKHG	SAS	6Gb/s	SR03	450GB	2.5"	32MB	10K RPM	
	WD3001BKHG	SAS	6Gb/s	SR03	300GB	2.5"	32MB	10K RPM	
	WD9001BKHG	SAS	6Gb/s	RG00	146GB	2.5"	32MB	10K RPM	
	WD3000BKFG	SAS	6Gb/s	RG00	300GB	2.5"	16MB	10K RPM	
	WD6000BKHG	SAS	6Gb/s	VG03	600GB	2.5"	32MB	10K RPM	
	WD4500BKHG	SAS	6Gb/s	VG03	450GB	2.5"	32MB	10K RPM	
	HGST	HUC101212CSS600	SAS	6Gb/s	A35A	1.2TB	2.5"	64MB	10K RPM
		HUC109090CSS600	SAS	6Gb/s	A1D0	900GB	2.5"	64MB	10K RPM
HUC109060CSS600		SAS	6Gb/s	A1D0	600GB	2.5"	64MB	10K RPM	
HUC109045CSS600		SAS	6Gb/s	A1D0	450GB	2.5"	64MB	10K RPM	
HUC109030CSS600		SAS	6Gb/s	A1D0	300GB	2.5"	64MB	10K RPM	
HUC106060CSS600		SAS	6Gb/s	A202	600GB	2.5"	64MB	10K RPM	
HUC106045CSS600		SAS	6Gb/s	A202/A360	450GB	2.5"	64MB	10K RPM	
HUC106030CSS600		SAS	6Gb/s	A202	300GB	2.5"	64MB	10K RPM	
HUC106060CSS600		SAS	6Gb/s	A150	600GB	2.5"	64MB	10K RPM	
HUC151473CSS600		SAS	6Gb/s	A5D0	73GB	2.5"	64MB	15K RPM	
HUC151414CSS600		SAS	6Gb/s	A5D0	147GB	2.5"	64MB	15K RPM	
HUC151414CSS600		SAS	6Gb/s	A370	147GB	2.5"	64MB	15K RPM	
HUC103014CSS600		SAS	6Gb/s	A5D0	147G	2.5"	64MB	10K RPM	
HUC103030CSS600		SAS	6Gb/s	A5D0	300GB	2.5"	64MB	10K RPM	
HUC151414CSS600		SAS	6Gb/s	A5D0	147GB	2.5"	64MB	15K RPM	
HUC151473CSS600		SAS	6Gb/s	A330	73GB	2.5"	64MB	15K RPM	
HUC103030CSS600		SAS	6Gb/s	A120	300GB	2.5"	64MB	10K RPM	
HUC103014CSS600		SAS	6Gb/s	A120	147GB	2.5"	64MB	10K RPM	
Seagate		ST600MP0034 (512e)	SAS	6Gb/s	E001	600GB	2.5"		15K RPM
		ST450MP0034 (512e)	SAS	6Gb/s	E001	450GB	2.5"		15K RPM
	ST300MP0034 (512e)	SAS	6Gb/s	E001	300GB	2.5"		15K RPM	
	ST300MX0004 (SSHDD, 512e)	SAS	6Gb/s	E001	300GB	2.5"		15K RPM	
	ST450MX0004 (SSHDD, 512e)	SAS	6Gb/s	E001	450GB	2.5"		15K RPM	
	ST600MX0004 (SSHDD, 512e)	SAS	6Gb/s	E001	600GB	2.5"		15K RPM	
	ST300MP0004	SAS	6Gb/s	N001	300GB	2.5"		15K RPM	
	ST450MP0004	SAS	6Gb/s	N001	450GB	2.5"		15K RPM	
	ST300MP0014	SAS	6Gb/s	TN01	300GB	2.5"		15K RPM	
	ST450MP0014	SAS	6Gb/s	TN01	450GB	2.5"		15K RPM	
ST300MP0044 (512e)	SAS	6Gb/s	TE01	300GB	2.5"		15K RPM		

	ST450MP0044 (512e)	SAS	6Gb/s	TE01	450GB	2.5"	15K RPM
	ST600MP0044 (512e)	SAS	6Gb/s	TE01	600GB	2.5"	15K RPM
	ST1200MM0017	SAS	6Gb/s	1	1.2TB	2.5"	10K RPM
	ST1200MM0017	SAS	6Gb/s	1	1.2TB	2.5"	10K RPM
	ST900MM0026	SAS	6Gb/s	1	900GB	2.5"	10K RPM
	ST600MM0026	SAS	6Gb/s	1	600GB	2.5"	10K RPM
	ST450MM0026	SAS	6Gb/s	1	450GB	2.5"	10K RPM
	ST300MM0026	SAS	6Gb/s	1	300GB	2.5"	10K RPM
	ST900MM0006	SAS	6Gb/s	A001	900GB	2.5"	10K RPM
	ST600MM0006	SAS	6Gb/s	A001	600GB	2.5"	10K RPM
	ST450MM0006	SAS	6Gb/s	A001	450GB	2.5"	10K RPM
	ST300MM0006	SAS	6Gb/s	A001	300GB	2.5"	10K RPM
	ST91000640SS	SAS	6Gb/s	1	1TB	2.5"	7200 RPM
	ST9500620SS	SAS	6Gb/s	2	500GB	2.5"	7200 RPM
	ST91000640NS	SAS	6Gb/s	SN01	1TB	2.5"	7200 RPM
	ST9500620NS	SAS	6Gb/s	SN01	500GB	2.5"	7200 RPM
	ST9250610NS	SAS	6Gb/s	SN01	250GB	2.5"	7200 RPM
	ST9600204SS	SAS	6Gb/s	4	600GB	2.5"	10K RPM
	ST9450404SS	SAS	6Gb/s	4	450GB	2.5"	10K RPM
	ST9500431SS	SAS	6Gb/s	DSF0	500GB	2.5"	7200 RPM
	ST9900805SS	SAS	6Gb/s	4	900GB	2.5"	10K RPM
	ST9600205SS	SAS	6Gb/s	4	600GB	2.5"	10K RPM
	ST9450405SS	SAS	6Gb/s	4	400GB	2.5"	10K RPM
	ST9300605SS	SAS	6Gb/s	4	300GB	2.5"	10K RPM
	ST973452SS	SAS	6Gb/s	5	73GB	2.5"	15K RPM
	ST9146852SS	SAS	6Gb/s	5	146GB	2.5"	15K RPM
	ST9300603SS	SAS	6Gb/s	6	300GB	2.5"	10K RPM
	ST9146803SS	SAS	6Gb/s	6	146GB	2.5"	10K RPM
	ST9500430SS	SAS	6Gb/s	3	500GB	2.5"	7200 RPM
Toshiba	AL13SEB300	SAS	6Gb/s	101	300GB	2.5"	10K RPM
	AL13SEB450	SAS	6Gb/s	101	450GB	2.5"	10K RPM
	AL13SEB600	SAS	6Gb/s	101	600GB	2.5"	10K RPM
	AL13SEB900	SAS	6Gb/s	101	900GB	2.5"	10K RPM
	MBF2600RE	SAS	6Gb/s	101	600GB	2.5"	10K RPM
	MBF2450RE	SAS	6Gb/s	101	450GB	2.5"	10K RPM
	MBF2300RE	SAS	6Gb/s	101	300GB	2.5"	10K RPM
	MBF2600RC	SAS	6Gb/s	109	600GB	2.5"	10K RPM
	MBF2450RC	SAS	6Gb/s	109	450GB	2.5"	10K RPM
	MBF2300RC	SAS	6Gb/s	109	300GB	2.5"	10K RPM
	MK2001TRKB	SAS	6Gb/s	105	2TB	3.5"	7200 RPM
	MK1001TRKB	SAS	6Gb/s	105	1TB	3.5"	7200 RPM
	MK3001GRRB	SAS	6Gb/s	102	300GB	2.5"	15K RPM
	MK1401GRRB	SAS	6Gb/s	102	145GB	2.5"	15K RPM
Fujitsu	MBE2073RC	SAS	6Gb/s	103	73GB	2.5"	15K RPM
	MBD2300RC	SAS	6Gb/s	102	300GB	2.5"	10K RPM
	MBE2147RC	SAS	6Gb/s	103	147GB	2.5"	15K RPM
	MBD2147RC	SAS	6Gb/s	102	147GB	2.5"	10K RPM



OS Drive AVL

Type	Size	Vendor	Capacity	Model	Part Number
SATA3	2.5"	Innodisk	256G		DGS25-B56D81SC1QC
SATA3	2.5"	Innodisk	128G	3MG-P	DGS25-A28D67SC1QC
SATA3	2.5"	Intel	120G	530	
SATA3	2.5"	Kingston	100G	SSDNOW E	
SATA 6Gb/s	2.5"	Seagate	500GB		ST9500620NS
SATA 6Gb/s	2.5"	Seagate	1TB		ST91000640NS
SATA 6Gb/s	2.5"	Intel	800GB		SSDSC2BB800G4
SATA 6Gb/s	2.5"	Samsung	240GB		MZ-7WD240N/003
PCIe	M.2 2280	Intel	128GB	SSDPEKKW	
PCIe	M.2 22110	Techman	2TB	PV100E5B	
PCIe	M.2 2280	Techman	480GB	PV100D5N	
PCIe	M.2 22110	Techman	482GB	PV100C5B	
SATA 6Gb/s	M.2	Transcend	128GB	MTS800	
SATA 6Gb/s	M.2	Transcend	128GB	MTS600	
SATA 6Gb/s	M.2	Transcend	128GB	MTS400	