



FlacheStreams FlacheSAN2-D5 Skylake Enclosure Approved Vendor List (AVL)

Description

This document is to present the vendor components that are qualified and approved to be used in conjunction with Echostreams enclosure. The list is curated from Echostreams 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

FlacheSAN2-D5

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

Socket	Family	Number	Core	# of Core	Frequency
Socket P	Xeon Platinum	8176M	Skylake	28	3.80 GHz
Socket P	Xeon Platinum	8176	Skylake	28	3.80 GHz
Socket P	Xeon Platinum	8170M	Skylake	26	3.70 GHz
Socket P	Xeon Platinum	8170	Skylake	26	3.70 GHz
Socket P	Xeon Platinum	8164	Skylake	26	3.70 GHz
Socket P	Xeon Platinum	8160T	Skylake	24	3.70 GHz
Socket P	Xeon Platinum	8160F	Skylake	24	3.70 GHz
Socket P	Xeon Platinum	8160	Skylake	24	3.70 GHz
Socket P	Xeon Platinum	8158	Skylake	12	3.70 GHz
Socket P	Xeon Platinum	8156	Skylake	14	3.70 GHz
Socket P	Xeon Platinum	8153	Skylake	4	3.70 GHz
Socket P	Xeon Gold	6152	Skylake	16	2.80 GHz
Socket P	Xeon Gold	6150	Skylake	22	3.70 GHz
Socket P	Xeon Gold	6148F	Skylake	18	3.70 GHz
Socket P	Xeon Gold	6148	Skylake	20	3.70 GHz
Socket P	Xeon Gold	6142M	Skylake	20	3.70 GHz
Socket P	Xeon Gold	6142F	Skylake	16	3.70 GHz
Socket P	Xeon Gold	6142	Skylake	16	3.70 GHz
Socket P	Xeon Gold	6140M	Skylake	16	3.70 GHz
Socket P	Xeon Gold	6140	Skylake	18	3.70 GHz
Socket P	Xeon Gold	6138F	Skylake	20	3.70 GHz
Socket P	Xeon Gold	6138	Skylake	20	3.70 GHz
Socket P	Xeon Gold	6136	Skylake	12	3.70 GHz
Socket P	Xeon Gold	6134M	Skylake	8	3.70 GHz
Socket P	Xeon Gold	6134	Skylake	8	3.70 GHz

Socket P	Xeon Gold	6132	Skylake	14	3.70 GHz
Socket P	Xeon Gold	6130T	Skylake	16	3.70 GHz
Socket P	Xeon Gold	6130F	Skylake	16	3.70 GHz
Socket P	Xeon Gold	6130	Skylake	16	3.70 GHz
Socket P	Xeon Gold	6128	Skylake	6	3.70 GHz
Socket P	Xeon Gold	6126T	Skylake	12	3.70 GHz
Socket P	Xeon Gold	6126F	Skylake	12	3.70 GHz
Socket P	Xeon Gold	6126	Skylake	12	3.70 GHz
Socket P	Xeon Gold	5122	Skylake	4	3.70 GHz
Socket P	Xeon Gold	5120T	Skylake	14	3.20 GHz
Socket P	Xeon Gold	5120	Skylake	14	3.20 GHz
Socket P	Xeon Gold	5118	Skylake	12	3.20 GHz
Socket P	Xeon Gold	5115	Skylake	10	3.20 GHz
Socket P	Xeon Silver	4116	Skylake	12	3.00 GHz
Socket P	Xeon Silver	4114	Skylake	10	3.00 GHz
Socket P	Xeon Silver	4112	Skylake	4	3.00 GHz
Socket P	Xeon Silver	4110	Skylake	8	3.00 GHz
Socket P	Xeon Silver	4109T	Skylake	8	3.00 GHz
Socket P	Xeon Silver	4108	Skylake	8	3.00 GHz
Socket P	Xeon Bronze	3106	Skylake	8	
Socket P	Xeon Bronze	3104	Skylake	6	

This list is compiled based on the compatibility between memory module and motherboard. Memory supported: DDR4 ECC RDIMM/LRDIMM
1600/1866/2133/2400

Module	Type	DIMM	Size	Vendor	Speed	Voltage	CL
KVR21R15D8/8I	DDR4	RDIMM	8GB	Kingston	2133	1.2V	15
KVR21R15D8K4/32I	DDR4	RDIMM	32GB	Kingston	2133	1.2V	15
KVR24R17S4/16I	DDR4	RDIMM	16GB	Kingston	2400	1.2V	17
KVR24R17S4K4/64I	DDR4	RDIMM	64GB	Kingston	2400	1.2V	17

IO Card AVL

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

IO Card	Vendor	Name	Model	Chipset	Host Bus	Cle Lan	Xfer Rate	Int. Port	Ext. Port	Connector	Form Factor	
IOM	Intel		RMS3AC160	Avago 3316	PCIe Gen3	x8	12Gb/s	16	0	SFF-8643	Conn Mod Storage	
			RMS3CC040	LSI3108	PCIe Gen3	x8	12Gb/s	4	0	SFF-8643	Conn Mod Storage	
			RMS3CC080	LSI3108	PCIe Gen3	x8	12Gb/s	8	0	SFF-8643	Conn Mod Storage	
			RMS3HC080	LSI3008	PCIe Gen3	x8	12Gb/s	8	0	SFF-8643	Conn Mod Storage	
			RMS3JC080	LSI3008	PCIe Gen3	x8	12Gb/s	8	0	SFF-8643	Conn Mod Storage	
			RMS3VC160	Avago 3216	PCIe Gen3	x8	12Gb/s	16	0	SFF-8643	Conn Mod Storage	
			RMSP3AD160F	SAS3516	PCIe Gen3	x8		16	0	SFF-8643	Mezzanine	
			RMSP3CD080F	SAS3508	PCIe Gen3	x8		8	0	SFF-8643	Mezzanine	
			RMSP3HD080E	SAS3408	PCIe Gen3	x8		8	0	SFF-8643	Mezzanine	
		Network Card			SGP-i2		PCI-E 2.0	x4	1 GbE		2 RJ45	
			SGP-i4		PCI-E 2.0	x4	1 GbE		4 RJ45		LP	
			STG-b4S		PCI-E 3.0	x8	10 GbE		4 SFP+		LP	
			STG-i2T		PCI-E 2.0	x8	10 GbE		2 RJ45		LP	
			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
				CX353A		PCIe Gen3	x8	56Gb/s IB or 40GbE		1	QSFP	LP
			ConnectX-4	CX456A		PCIe Gen3	x8	100Gb/s IB or GbE				LP
				CX415A		PCIe Gen3	x8	100Gb/s IB or GbE				LP
				CX416A		PCIe Gen3	x8	100Gb/s IB or GbE				LP

	Intel		X520	82599	PCIe Gen3	x8	10GbE	0	2	SFP+	LP
			XL710-QDA1	XL710	PCIe Gen3	x8	40GbE	0	1	QSFP+	LP
			XL710-QDA2	XL710	PCIe Gen3	x8	40GbE	0	2	SFP28	LP
			X710-DA2	XL710	PCIe Gen3	x8	10GbE	0	2	SFP+	LP
			X710-DA4	XL710	PCIe Gen3	x8	10GbE	0	4	SFP+	LP
			X550-T1	550	PCIe Gen3	x8	10GbE	0	1	RJ-45	LP
			X550-T2	550	PCIe Gen3	x8	10GbE	0	2	RJ-45	LP
			X540-T1	540	PCIe Gen3	x8	10GbE	0	1	RJ-45	LP
			X540-T2	540	PCIe Gen3	x8	10GbE	0	2	RJ-45	LP
			X520-SR2	520	PCIe Gen3	x8	10GbE	0	2	MMF	LP
			X520-SR1	520	PCIe Gen3	x8	10GbE	0	1	MMF	LP
			X520-QDA1	520	PCIe Gen3	x8	10GbE	0	1	QSFP+	LP
			X520-LR1	520	PCIe Gen3	x8	10GbE	0	1	SMF	LP
			X520-DA2	520	PCIe Gen3	x8	10GbE	0	2	SFP+	LP
			I340-F4				1GbE			MMF	
			I350-F2				1GbE			MMF	
			I350-F4				1GbE			MMF	
			I350-T4V2				1GbE				
	Qlogic		QLE2563		PCIe Gen3	x8					LP
			QLE2672		PCIe Gen3	x8					LP
			QLE3242		PCIe Gen3	x8			2	RJ-45	LP
			QLE2562		PCI-E 2.0	x8	8 Gb/s FC		2	SFP+	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-8087/88	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	0	16		LP
	Intel	RS3DC040	LSI3108	PCIe Gen3	x8	12Gb/s	4	0	SFF-8643	LP MD2
		RS3DC080	LSI3108	PCIe Gen3	x8	12Gb/s	8	0	SFF-8643	LP MD2
		RS3GC008	LSI3008	PCIe Gen3	x8	12Gb/s	0	8	SFF-8644	LP MD2
		RS3SC008	LSI3108	PCIe Gen3	x8	12Gb/s	0	8	SFF-8644	LP MD2
		RS3UC080	LSI3008	PCIe Gen3	x8	12Gb/s	8	0	SFF-8643	LP MD2
		RS3UC080J	LSI3008	PCIe Gen3	x8	12Gb/s	8	0	SFF-8643	LP MD2
		RS3WC080	LSI3008	PCIe Gen3	x8	12Gb/s	8	0	SFF-8643	LP MD2
		RSP3DD080F	SAS3508	PCIe Gen3	x8	12Gb/s	8	0	SFF-8643	LP MD2
		RSP3MD088F	SAS3516	PCIe Gen3	x8	12Gb/s	8	8	SFF-8643/44	LP MD2
		RSP3TD160F	SAS3516	PCIe Gen3	x8	12Gb/s	16	0	SFF-8643	LP MD2
		RSP3WD080E	SAS3408	PCIe Gen3	x8	12Gb/s	8	0	SFF-8643	LP MD2
Storage Car	Samsung	SM1715		PCIe Gen3	x8	PCIe NVMe				LP
	Kingston	EP1000		PCIe Gen3	x8	PCIe NVMe				LP

Below is the list of SATA SSD supported by the enclosure. Only SSDs with 7mm thickness are supported by the enclosure.

Vendor	Series	Model	Interface	Capacity	Flash Tech	Form Factor
ADATA	Premiere Pro	ASP600S3-64GM	SATA	64GB	MLC	2.5" x 7mm
ADATA	SX1000	SX1000L	SATA III		MLC	2.5" 7mm
ADATA	SX900	ASX900S7	SATA III	128GB	MLC	2.5" x 7mm
ADATA		ISSS312-032GM	SATA III	32GB	MLC	2.5" x 7mm
ADATA		IS32-064GM	SATA III	64GB	MLC	2.5" x 7mm
Intel	520 Series	SSDSC2CW180A3	SATA	180GB	MLC	2.5" x 7mm
Intel	520 Series	SSDSC2BW240A3	SATA	240GB	MLC	2.5" x 7mm
Intel	320 Series		SATA	40GB	MLC	2.5" x 7mm
Samsung	830 Series	MZ-7PC064	SATA-2	64GB	MLC	2.5" x 7mm
Samsung	850 PRO	MZ-7KE2T0	SATA III	2TB	MLC	2.5" x 7mm
Seagate	1200	ST200FM0053	SATA III	200GB	MLC	2.5" x 7mm
Micron	5100 PRO	MTFDDAK240TCB	SATA 6Gb/s	240GB	TLC	2.5" x 7mm
Micron	5100 MAX	MTFDDAK240TCC	SATA 6Gb/s	240GB	TLC	2.5" x 7mm
Micron	5100 ECO	MTFDDAK480TBY	SATA 6Gb/s	480GB	TLC	2.5" x 7mm
Micron	5100 PRO	MTFDDAK480TCB	SATA 6Gb/s	480GB	TLC	2.5" x 7mm
Micron	5100 MAX	MTFDDAK480TCC	SATA 6Gb/s	480GB	TLC	2.5" x 7mm
Micron	5100 ECO	MTFDDAK960TBY	SATA 6Gb/s	1TB	TLC	2.5" x 7mm
Micron	5100 PRO	MTFDDAK960TCB	SATA 6Gb/s	1TB	TLC	2.5" x 7mm
Micron	5100 MAX	MTFDDAK960TCC	SATA 6Gb/s	1TB	TLC	2.5" x 7mm
Micron	5100 ECO	MTFDDAK1T9TBY	SATA 6Gb/s	2TB	TLC	2.5" x 7mm
Micron	5100 PRO	MTFDDAK1T9TCB	SATA 6Gb/s	2TB	TLC	2.5" x 7mm
Micron	5100 MAX	MTFDDAK1T9TCC	SATA 6Gb/s	2TB	TLC	2.5" x 7mm
Micron	5100 ECO	MTFDDAK3T8TBY	SATA 6Gb/s	4TB	TLC	2.5" x 7mm
Micron	5100 PRO	MTFDDAK3T8TCB	SATA 6Gb/s	4TB	TLC	2.5" x 7mm
Micron	5100 ECO	MTFDDAK7T6TBY	SATA 6Gb/s	8TB	TLC	2.5" x 7mm

Samsung	SM863a	MZ7KM240HMHQ	SATA 6Gb/s	240GB		2.5" x 7mm
Samsung	SM863a	MZ7KM480HMHQ	SATA 6Gb/s	480GB		2.5" x 7mm
Samsung	SM863a	MZ7KM960HMJP	SATA 6Gb/s	960GB		2.5" x 7mm
Samsung	SM863a	MZ7KM1T9HMJP	SATA 6Gb/s	1920GB		2.5" x 7mm
Samsung	PM863a	MZ7KLM240HMHQ	SATA 6Gb/s	240GB		2.5" x 7mm
Samsung	PM863a	MZ7KLM480HMHQ	SATA 6Gb/s	480GB		2.5" x 7mm
Samsung	PM863a	MZ7KLM960HMJP	SATA 6Gb/s	960GB		2.5" x 7mm
Samsung	PM863a	MZ7KLM1T9HMJP	SATA 6Gb/s	1920GB		2.5" x 7mm
Samsung	PM863a	MZ7KLM3T8HMLP	SATA 6Gb/s	3840GB		2.5" x 7mm
Intel	DC S3500		SATA 6Gb/s	80GB - 1.6TB	MLC	2.5" x 7mm
Intel	DC S3700		SATA 6Gb/s	100GB - 800GB	MLC	2.5" x 7mm
Crucial	MX100	CT128MX100SSD1	SATA 6Gb/s	128GB	MLC	2.5" x 7mm
Toshiba	HG5d	THNSNHxxxGCST	SATA 6Gb/s	60GB - 512GB	MLC	2.5" x 7mm

Vendor	Model	Type	Capacity	Size
Innodisk		SATA3	256G	2.5"
Innodisk	3MG-P	SATA3	128G	2.5"
Intel	530	SATA3	120G	2.5"
Kingston	SSDNOW E	SATA3	100G	2.5"
Intel	DC S3710	SATA 6Gb/s	1.2TB	2.5" 7mm
Intel	DC S3710	SATA 6Gb/s	800GB	2.5" 7mm
Intel	DC S3710	SATA 6Gb/s	400GB	2.5" 7mm
Intel	DC S3710	SATA 6Gb/s	200GB	2.5" 7mm
Intel	DC S3700	SATA 6Gb/s	800GB	2.5" 7mm
Intel	DC S3700	SATA 6Gb/s	400GB	2.5" 7mm
Intel	DC S3700	SATA 6Gb/s	200GB	2.5" 7mm
Intel	DC S3700	SATA 6Gb/s	100GB	2.5" 7mm
Intel	DC S3610	SATA 6Gb/s	1.6TB	2.5" 7mm
Intel	DC S3610	SATA 6Gb/s	1.2TB	2.5" 7mm
Intel	DC S3610	SATA 6Gb/s	480GB	2.5" 7mm
Intel	DC S3610	SATA 6Gb/s	200GB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	1.6TB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	1.2TB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	960GB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	800GB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	480GB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	240GB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	150GB	2.5" 7mm
Intel	DC S3510	SATA 6Gb/s	1.6TB	2.5" 7mm
Intel	DC S3510	SATA 6Gb/s	1.2TB	2.5" 7mm
Intel	DC S3510	SATA 6Gb/s	480GB	2.5" 7mm
Intel	DC S3510	SATA 6Gb/s	240GB	2.5" 7mm
Intel	DC S3510	SATA 6Gb/s	120GB	2.5" 7mm
Intel	DC S3500	SATA 6Gb/s	800GB	2.5" 7mm
Intel	DC S3500	SATA 6Gb/s	600GB	2.5" 7mm
Intel	DC S3500	SATA 6Gb/s	480GB	2.5" 7mm
Intel	DC S3500	SATA 6Gb/s	300GB	2.5" 7mm
Intel	DC S3500	SATA 6Gb/s	240GB	2.5" 7mm
Intel	DC S3500	SATA 6Gb/s	160GB	2.5" 7mm
Intel	DC S3500	SATA 6Gb/s	120GB	2.5" 7mm
Intel	DC S3500	SATA 6Gb/s	80GB	2.5" 7mm
Intel	DC S3100	SATA 6Gb/s	1TB	2.5" 7mm
Intel	DC S3100	SATA 6Gb/s	480GB	2.5" 7mm
Intel	DC S3100	SATA 6Gb/s	240GB	2.5" 7mm
Intel	DC S3100	SATA 6Gb/s	180GB	2.5" 7mm

Intel	DC S4500	SATA 6Gb/s	3.8TB	2.5" 7mm
Intel	DC S4500	SATA 6Gb/s	1.9TB	2.5" 7mm
Intel	DC S4500	SATA 6Gb/s	960GB	2.5" 7mm
Intel	DC S4500	SATA 6Gb/s	480GB	2.5" 7mm
Intel	DC S4500	SATA 6Gb/s	240GB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	1.6TB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	1.2TB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	960GB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	800GB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	480GB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	240GB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	150GB	2.5" 7mm
Intel	DC S4501	SATA 6Gb/s	4TB	2.5" 7mm
Intel	DC S4501	SATA 6Gb/s	2TB	2.5" 7mm
Intel	DC S4501	SATA 6Gb/s	1TB	2.5" 7mm
Intel	DC S4501	SATA 6Gb/s	500GB	2.5" 7mm
Intel	DC S3520	SATA 6Gb/s	760GB	M.2 22x80mm
Intel	DC S3520	SATA 6Gb/s	480GB	M.2 22x80mm
Intel	DC S3520	SATA 6Gb/s	240GB	M.2 22x80mm
Intel	DC S3520	SATA 6Gb/s	150GB	M.2 22x80mm
Intel	DC P4800X	PCIe x4	375GB	U.2 15mm
Intel	DC P4800X	PCIe x4	375GB	HHHL
Intel	DC P4600	PCIe 3.1 x4	4TB	HHHL
Intel	DC P4600	PCIe 3.1 x4	2TB	HHHL
Intel	DC P4500	PCIe 3.1 x4	4TB	HHHL
Intel	DC P3520	PCIe 3.0 x4	2TB	HHHL
Intel	DC P3520	PCIe 3.0 x4	1.2TB	HHHL