



LAB AND ENGINEERING

FlacheSAN2V-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 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

FlacheSAN2V-UN

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CPU AVL

Product Name	Code Name	Package	Stepping	L3 Cache	# of Cores/ Threads	Processor Base Freq (GHz)	All Cores Boost Max Freq (GHz)	Processor Boost	TDP	Memory Types
AMD 7601 PS7601BDVIHAF	Naples	SP3	PR	64MB	32 / 64	2.2	2.7	3.20 / 3	180W	DDR4-2666
AMD 7551 PS7551BDVIHAF	Naples	SP3	PR	64MB	32 / 64	2	2.55	3.00 / 3	180W	DDR4-2666
AMD 7451 PS7451BDVHCAFA	Naples	SP3	PR	64MB	24 / 48	2.3	3.2	3.20 / 3	180W	DDR4-2666
AMD 7351 PS7351BEVGPAF	Naples	SP3	PR	64MB	16 / 32	2.4	2.9	2.90 / 2	155/170W	DDR4-2400/2666
AMD 7351P PS735PBEVGPAF	Naples	SP3	PR	64MB	16 / 32	2.4	2.9	2.90 / 2	155/170W	DDR4-2400/2666
AMD 7501 PS7501BEVIHAF	Naples	SP3	PR	64MB	32 / 64	2	2.6	3.00 / 3	155/170W	DDR4-2400/2666
AMD 7401 PS7401BEVHCAF	Naples	SP3	PR	64MB	24 / 48	2	2.8	3.00 / 3	155/170W	DDR4-2400/2666
AMD 7401P PS740PBEVHCAF	Naples	SP3	PR	64MB	24 / 48	2	2.8	3.00 / 3	155/170W	DDR4-2400/2666
AMD 7301 PS7301BEVGPAF	Naples	SP3	PR	64MB	16 / 32	2.2	2.7	2.70 / 2	155/170W	DDR4-2400/2666
AMD 7251 PS7251BFV8SAF	Naples	SP3	PR	32MB	8 / 16	2	2.9	2.90 / 2	120W	DDR4-2400



Memory AVL

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

Product Name	Memory Type	Module Supplier	Size	Chip Brand	Rank	Voltage	Data Transfer Rate	Error Correction	CAS Latency	Pins	Note
HMA82GR7AFR8N-UHTD	DDR4	SK Hynix	16GB	SK Hynix	2R X8	1.2v	2400MHz	ECC	Registered	17	288-pin
HMA82GR7AFR8N-UHT2	DDR4	SK Hynix	16GB	SK Hynix	2R X8	1.2v	2400MHz	ECC	Registered	17	288-pin
HMA84GR7AFR4N-UHTD	DDR4	SK Hynix	32GB	SK Hynix	2R X4	1.2v	2400MHz	ECC	Registered	17	288-pin
HMA84GR7AFR4N-UHT2	DDR4	SK Hynix	32GB	SK Hynix	2R X4	1.2v	2400MHz	ECC	Registered	17	288-pin
CT16G4RFD424A.36FB1	DDR4	Crucial	16GB	Micron	2R X4	1.2v	2400MHz	ECC	Registered	17	288-pin
MTA36ASF2G72PZ-2G3B1QK	DDR4	Micron	16GB	Micron	2R X4	1.2v	2400MHz	ECC	Registered	17	288-pin
CT16G4RFS424A.18FB1	DDR4	Crucial	16GB	Micron	1R X4	1.2v	2400MHz	ECC	Registered	17	288-pin
MTA18ASF2G72PZ-2G3B1IG	DDR4	Micron	16GB	Micron	1R X4	1.2v	2400MHz	ECC	Registered	17	288-pin
M4R0-8GSSBCSJ	DDR4	INNODISK	8GB	Samsung	2R X4	1.2v	2400MHz	ECC	Registered	17	288-pin
M393A4K40BB1-CRCOQ	DDR4	Samsung	32GB	Samsung	2R X4	1.2v	2400MHz	ECC	Registered	17	288-pin
VP9MR4G7224JBJSB	DDR4	Viking	32GB	Samsung	2R X4	1.2v	2400MHz	ECC	Registered	17	288-pin
M393A4K40BB2-CTD	DDR4	Samsung	32GB	Samsung	2R X4	1.2v	2666MHz	ECC	Registered	19	288-pin
CT32G4RFD4266.36FD1	DDR4	CRUCIAL	32GB	Micron	2R X4	1.2v	2666MHz	ECC	Registered	19	288-pin
CT32G4RFD4266-2G6D1	DDR4	CRUCIAL	32GB	Micron	2R X4	1.2v	2666MHz	ECC	Registered	19	288-pin
MTA36ASF4G72PZ.2G6D1RG	DDR4	Micron	32GB	Micron-Inphi	2R X4	1.2v	2666MHz	ECC	Registered	19	288-pin
MTA36ASF4G72PZ.2G6D1QK	DDR4	Micron	32GB	Micron-Montage	2R X4	1.2v	2666MHz	ECC	Registered	19	288-pin
CT32G4RFD4266.-2G6D1	DDR4	CRUCIAL	32GB	Micron	2R X4	1.2v	2666MHz	ECC	Registered	19	288-pin
HMA82GR7AFR8N-VKT3	DDR4	SKhynix	16GB	Skhynix-Montag	2R X4	1.2v	2666MHz	ECC	Registered	19	288-pin
HMA84GR7AFR4N-VKTF	DDR4	SKhynix	32GB	Skhynix-IDT	2R X4	1.2v	2666MHz	ECC	Registered	19	288-pin
CT16G4RFD8266-2G6H1.001	DDR4	CRUCIAL	16GB	Micron	2R X8	1.2v	2666MHz	ECC	Registered	19	288-pin
MTA18ASF2G72PDZ-2G6H1QG	DDR4	Micron	16GB	Micron	2R X8	1.2v	2666MHz	ECC	Registered	19	288-pin
CT32G4RFD4266-2G6H1.001	DDR4	CRUCIAL	32GB	Micron	2R X4	1.2v	2666MHz	ECC	Registered	19	288-pin
MTA36ASF4G72PZ-2G6H1QG	DDR4	Micron	32GB	Micron	2R X4	1.2v	2666MHz	ECC	Registered	19	288-pin
HMAA8GL7AMR4N-UHTE	DDR4	SKhynix	64GB	SKhynix	4DRx4	1.2v	2400MHz	ECC	Registered	17	288-pin
M386A8K40BM1-CRC4Q M	DDR4	Samsung	64GB	Samsung	4DRx4	1.2v	2400MHz	ECC	Registered	17	288-pin



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	PCIe Lane	Xfer Rate	Int. Port	Ext. Port	Connector	Form Factor	
SAS Card	Avago	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	
Network Card	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	



SSD AVL

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

Vendor	Series	Model	Controller Vendor	Controller Model	Interface	Capacity	Flash Tech	Form Factor
ADATA	Premiere Pro	ASP600S3-64GM	JMicron	JMF661	SATA	64GB	MLC	2.5" x 7mm
ADATA	SX1000	SX1000L	SandForce	SF-2281VB1-SDC	SATA III		MLC	2.5" 7mm
ADATA	SX900	ASX900S7			SATA III	128GB	MLC	2.5" x 7mm
ADATA		ISSS312-032GM	JMicron	JMF608	SATA III	32GB	MLC	2.5" x 7mm
ADATA		IS32-064GM	JMicron	JMF667	SATA III	64GB	MLC	2.5" x 7mm
Intel	520 Series	SSDSC2CW180A3	SandForce	SF-2281VB1-SDC	SATA	180GB	MLC	2.5" x 7mm
Intel	520 Series	SSDSC2BW240A3	SandForce	SF-2281VB1-SDC	SATA	240GB	MLC	2.5" x 7mm
Intel	320 Series				SATA	40GB	MLC	2.5" x 7mm
Samsung	830 Series	MZ-7PC064	Samsung	S4LJ204X01	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



OS Drive AVL

Product Name	Type	Vendor	Form Factor	Format	Capacity	Interface Speed	Series	Cache	RPM
ST2000NX0243	SATA	Seagate	2.5"	4Kn	2TB	6Gb/s	Enterprise Capacity V3	128MB	7200
ST1000NX0333	SAS	Seagate	2.5"	512e	1TB	12Gb/s	Enterprise Capacity V3	128MB	7200
ST8000NM0055	SATA	Seagate	3.5"	512e	8TB	6Gb/s	Enterprise Capacity V5	256MB	7200
ST1000NM0016	SATA	Seagate	3.5"	512e	10TB	6Gb/s	Enterprise Capacity V6	256MB	7200
ST8000NM0016	SATA	Seagate	3.5"	512e	8TB	6Gb/s	Enterprise Capacity V6	256MB	7200
WD4000FYYZ-01UL1B1	SATA	WD	3.5"	512n	4TB	6Gb/s	WD Re	64MB	7200
WD4000FYYZ-01UL1B2	SATA	WD	3.5"	512n	4TB	6Gb/s	WD Re	64MB	7200
WD6001FSYZ-01SS7B0	SATA	WD	3.5"	512e	6TB	6Gb/s	WD Re	128MB	7200
HUH728080ALE604	SATA	HGST	3.5"	512e	8TB	6Gb/s	Ultrastar He8	128MB	7200
HUS726060ALE610	SATA	HGST	3.5"	512e	6TB	6Gb/s	Ultrastar 7K6000	128MB	7200
MG05ACA800A	SATA	Toshiba	3.5"	4Kn	8TB	6Gb/s	Capacity	128MB	7200
MG05ACA800E	SATA	Toshiba	3.5"	512e	8TB	6Gb/s	Capacity	128MB	7200
AL14SEB120N	SAS	Toshiba	2.5"	512n	1.2TB	12Gb/s	Performance	128MB	10k
XF1212-1A0512	SSD	Seagate	2.5"	SATA	480GB	6Gb/s	RL04		
SDLF1CRR-019T-1HA1	SSD	SanDisk	2.5"	SATA	1.92TB	6Gb/s	ZR04		
PX-G128M6e-2280	M.2	PLEXTOR	2280	PCIe	128GB				
MZHPV256HDGL	M.2	Samsung	2280	PCIe	256GB				
MZVPV128HDGM	M.2	Samsung	2280	PCIe(NVMe)	128GB				
MZVPV512HDGL	M.2	Samsung	2280	PCIe(NVMe)	512GB				
ND280C-256GM-MT	M.2	TECHCOMP	2280	PCIe	256GB				
ND280C-512GM-MT	M.2	TECHCOMP	2280	PCIe	512GB				
Me.262 256GB M.2	M.2	Ezlink	2280	PCIe	256GB				