



EchoStreams
Innovative Solutions
LAB AND ENGINEERING

DSS224S-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

DSS212S-UN

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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

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	
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		16		LP	
Network Car	Mellanox	ConnectX-3	CX354A		PCIe Gen3	x8	ib/s IB or 40GbE		2	QSFP	LP	
			CX353A		PCIe Gen3	x8	ib/s IB or 40GbE		1	QSFP	LP	
		ConnectX-4	CX456A		PCIe Gen3	x8	0Gb/s IB or GbE					LP
			CX415A		PCIe Gen3	x8	0Gb/s IB or GbE					LP
			CX416A		PCIe Gen3	x8	0Gb/s IB or GbE					LP
	Intel		X520	82599	PCIe Gen3	x8	10GbE		2	SFP+	LP	
			XL710		PCIe Gen3	x8	40GbE		2	SFP+	LP	
			X710-DA4		PCIe Gen3	x8			4	SFP+	LP	
			X540-T2	540	PCIe Gen2	x8	10GbE	0	2	RJ-45	LP	
			I350-T4V2		PCIe Gen2	x8	1GbE	0	2	RJ-45	LP	
	Qlogic		QLE2563		PCIe Gen3	x8						LP
			QLE2672		PCIe Gen3	x8						LP
			QLE3242		PCIe Gen3	x8			2	RJ-45	LP	

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
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
HUSMR1625ASS204		SAS	6Gb/s		250GB	2.5" 15mm		
Seagate		ST600MP0034 (512e)	SAS	6Gb/s	E001	600GB	2.5"	
	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
	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
Micron	MTFDJAL3T8MBU	SAS	12Gb/s		3840GB	2.5" 15mm	

Below is the list of SATA SSD supported by the JBOD

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 - 1.6TE	MLC	2.5" x 7mm
Intel	DC S3700		SATA 6Gb/s	.00GB -800G	MLC	2.5" x 7mm
Crucial	MX100	CT128MX100SSD1	SATA 6Gb/s	128GB	MLC	2.5" x 7mm

Toshiba	HG5d	THNSNHxxxGCST	SATA 6Gb/s	50GB - 512Gi	MLC	2.5" x 7mm
Toshiba	HG5d	THNSNHxxxGBST	SATA 6Gb/s	50GB - 512Gi	MLC	2.5" x 9.5mm

Type	Size	Vendor	Capacity	Model	Part Number
SATA3	3.5"	HGST	4TB	HUS724040ALA640	
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	