



DuraStreams FH 3.5" Drive Storage Server
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

DSS316S-UN DSS212S-UN

Lists

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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

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 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
	Avago	HBA	SAS 9207-8e	SAS2308	PCIe Gen3	x8	6Gb/s	0	8	SFF-8087	LP
	Avago	HBA	SAS 9207-4i4e	SAS2308	PCIe Gen3	x8	6Gb/s	4	4	SFF-8087/88	LP
	Avago	HBA	SAS 9305-24i	SAS3224 IOC	PCIe Gen3	x8	12Gb/s	24	0	SFF-8644	LP
	Avago	HBA	SAS 9305-16e	SAS3224 IOC	PCIe Gen3	x8	12Gb/s	0	16	SFF-8644	LP
	Avago	HBA	SAS 9300-8e	SAS3008 IOC	PCIe Gen3	x8	12Gb/s	0	8	SFF-8644	LP
	Avago	HBA	SAS 9300-16e	SAS3008 IOC	PCIe Gen3	x8	12Gb/s	0	16	SFF-8644	LP
	Avago	HBA	SAS 9300-4i4e	SAS3008 IOC	PCIe Gen3	x8	12Gb/s	4	4	SFF-8643/44	LP
	Avago	MegaRAID	SAS 9380-8i8e	SAS3108 ROC	PCIe Gen3	x8	12Gb/s	8	8	SFF-8643/44	LP
	Avago	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
	Mellanox	ConnectX-3	CX353A		PCIe Gen3	x8	ib/s IB or 40GbE		1	QSFP	LP
	Mellanox	ConnectX-4	CX456A		PCIe Gen3	x8	0Gb/s IB or GbE				LP
	Mellanox	ConnectX-4	CX415A		PCIe Gen3	x8	0Gb/s IB or GbE				LP
	Mellanox	ConnectX-4	CX416A		PCIe Gen3	x8	0Gb/s IB or GbE				LP
	Intel		X520	82599	PCIe Gen3	x8	10GbE	0	2	SFP+	LP
	Intel		XL710-QDA1	XL710	PCIe Gen3	x8	40GbE	0	1	QSFP+	LP
	Intel		XL710-QDA2	XL710	PCIe Gen3	x8	40GbE	0	2	SFP28	LP
	Intel		X710-DA2	XL710	PCIe Gen3	x8	10GbE	0	2	SFP+	LP
	Intel		X710-DA4	XL710	PCIe Gen3	x8	10GbE	0	4	SFP+	LP
	Intel		X550-T1	550	PCIe Gen3	x8	10GbE	0	1	RJ-45	LP
	Intel		X550-T2	550	PCIe Gen3	x8	10GbE	0	2	RJ-45	LP
	Intel		X540-T1	540	PCIe Gen3	x8	10GbE	0	1	RJ-45	LP

	Intel	X540-T2	540	PCIe Gen3	x8	10GbE	0	2	RJ-45	LP
	Intel	X520-SR2	520	PCIe Gen3	x8	10GbE	0	2	MMF	LP
	Intel	X520-SR1	520	PCIe Gen3	x8	10GbE	0	1	MMF	LP
	Intel	X520-QDA1	520	PCIe Gen3	x8	10GbE	0	1	QSFP+	LP
	Intel	X520-LR1	520	PCIe Gen3	x8	10GbE	0	1	SMF	LP
	Intel	X520-DA2	520	PCIe Gen3	x8	10GbE	0	2	SFP+	LP
	Intel	I340-F4				1GbE			MMF	
	Intel	I350-F2				1GbE			MMF	
	Intel	I350-F4				1GbE			MMF	
	Intel	I350-T4V2				1GbE				
	Qlogic	QLE2563		PCIe Gen3	x8					LP
	Qlogic	QLE2672		PCIe Gen3	x8					LP
	Qlogic	QLE3242		PCIe Gen3	x8			2	RJ-45	LP
	Qlogic	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
Storage	Samsung	SM1715		PCIe Gen3	x8	PCIe NVMe				LP
Card	Kingston	EP1000		PCIe Gen3	x8	PCIe NVMe				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 3.5" form factor are supported by the enclosures.

Vendor	Model	Type	Gen	FW	Capacity	Size	Cache	RPM
WD	WD4001FYYG	SAS	6Gb/s	VR07	4TB	3.5"	32MB	7200 RPM
	WD3001FYYG	SAS	6Gb/s	VR07	3TB	3.5"	32MB	7200 RPM
	WD2001FYYG	SAS	6Gb/s	VR07	2TB	3.5"	32MB	7200 RPM
	WD1001FYYG	SAS	6Gb/s	VR07	1TB	3.5"	32MB	7200 RPM
	WD9001HKHG	SAS	6Gb/s	SR07	900GB	3.5"	32MB	10K RPM
	WD6001HKHG	SAS	6Gb/s	SR07	600GB	3.5"	32MB	10K RPM
	WD4501HKHG	SAS	6Gb/s	SR07	450GB	3.5"	32MB	10K RPM
	WD3001HKHG	SAS	6Gb/s	SR07	300GB	3.5"	32MB	10K RPM
	HGST	HUS726060ALS640	SAS	6Gb/s	A1E2	6TB	3.5"	64MB
HUS724040ALS640		SAS	6Gb/s	A152	4TB	3.5"	64MB	7200 RPM
HUS724030ALS640		SAS	6Gb/s	A152	3TB	3.5"	64MB	7200 RPM
HUS724020ALS640		SAS	6Gb/s	A152	2TB	3.5"	64MB	7200 RPM
HUS723030ALS640		SAS	6Gb/s	A220	3TB	3.5"	64MB	7200 RPM
HUS723020ALS640		SAS	6Gb/s	A220	2TB	3.5"	64MB	7200 RPM
HUS156060VLS600		SAS	6Gb/s	A5D0	600GB	3.5"	64MB	15K RPM
HUS156045VLS600		SAS	6Gb/s	A5D0	450GB	3.5"	64MB	15K RPM
HUS156030VLS600		SAS	6Gb/s	A5D0	300GB	3.5"	64MB	15K RPM
Seagate	ST32000444SS	SAS	6Gb/s	5	2 TB	3.5"		7200 RPM
	ST33000650SS	SAS	6Gb/s	2	3TB	3.5"		7200 RPM
	ST32000645SS	SAS	6Gb/s	2	2TB	3.5"		7200 RPM
	ST2000NM0001	SAS	6Gb/s	2	2TB	3.5"		7200 RPM
	ST1000NM0001	SAS	6Gb/s	2	1TB	3.5"		7200 RPM
	ST500NM0001	SAS	6Gb/s	2	500GB	3.5"		7200 RPM
	ST33000650SS	SAS	6Gb/s	1	3TB	3.5"		7200 RPM
	ST32000445SS	SAS	6Gb/s	6	2TB	3.5"		7200 RPM
	ST31000424SS	SAS	6Gb/s	6	1TB	3.5"		7200 RPM
	ST3500414SS	SAS	6Gb/s	6	500GB	3.5"		7200 RPM
	ST32000444SS	SAS	6Gb/s	5	2TB	3.5"		7200 RPM
	ST31000424SS	SAS	6Gb/s	5	1TB	3.5"		7200 RPM
	ST3500414SS	SAS	6Gb/s	5	500GB	3.5"		7200 RPM
	ST3450802SS	SAS	6Gb/s	9	450GB	3.5"		10K RPM
	ST3600002SS	SAS	6Gb/s	9	600GB	3.5"		10K RPM
	ST3600057SS	SAS	6Gb/s	8	600GB	3.5"		15K7 RPM
	ST3450857SS	SAS	6Gb/s	8	450GB	3.5"		15K7 RPM
	ST3300657SS	SAS	6Gb/s	8	300GB	3.5"		15K7 RPM
	ST6000NM0034	SAS	12Gb/s		6TB	3.5"	128MB	7200 RPM
Toshiba	MG03SCA100	SAS	6Gb/s	108	1TB	3.5"		7200 RPM

MG03SCA200	SAS	6Gb/s	108	2TB	3.5"	7200 RPM
MG03SCA300	SAS	6Gb/s	108	3TB	3.5"	7200 RPM
MG03SCA400	SAS	6Gb/s	108	4TB	3.5"	7200 RPM
MK2001TRKB	SAS	6Gb/s	105	2TB	3.5"	7200 RPM
MK1001TRKB	SAS	6Gb/s	105	1TB	3.5"	7200 RPM

Type	Size	Vendor	Capacity	Model	Part Number
SATA3	3.5"	HGST	4TB	HUS724040ALA640	
SATA3	2.5"	Innodisk	256G		DGS25-B56D815C1QC
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	