



## LAB AND ENGINEERING

### eDrawer4060S-D5 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

eDrawer4060S-D5

#### Lists

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

Socket	Family	Number	Core	Frequency	Cache	Power
Socket P	Platinum	8180	28	2.50GHz	38.5M	205W
	Platinum	8176	28	2.10GHz	38.5M	165W
	Platinum	8170	26	2.10GHz	35.75M	165W
	Platinum	8168	24	2.70GHz	33M	205W
	Platinum	8164	26	2.00GHz	35.75M	150W
	Platinum	8160	24	2.10GHz	33M	150W
	Platinum	8160T	24	2.10GHz	33M	150W
	Gold	6142	16	2.60GHz	22M	150W
	Gold	6150	18	2.70GHz	24.75M	165W
	Gold	6154	18	3.00GHz	24.75M	200W
	Gold	6152	22	2.10GHz	30.25M	140W
	Gold	6140	18	2.30GHz	24.75M	140W
	Gold	6148	20	2.40GHz	27.5M	150W
	Gold	6126	12	2.60GHz	19.25M	125W
	Gold	6130	16	2.10GHz	22M	125W
	Gold	6126T	12	2.60GHz	19.25M	125W
	Gold	6130T	16	2.10GHz	22M	125W
	Gold	6138T	20	2.00GHz	27.5M	125W
	Gold	6138	20	2.00GHz	27.5M	125W
	Gold	6134	8	3.20GHz	24.75M	130W
	Gold	6132	14	2.60GHz	19.25M	140W
	Gold	6128	6	3.40GHz	19.25M	115W
	Gold	5122	4	3.60GHz	16.5M	105W
	Gold	5118	12	2.30GHz	16.5M	105W
	Gold	5115	10	2.40GHz	13.75M	85W
	Gold	5120	14	2.20GHz	19.25M	105W
	Gold	5120T	14	2.20GHz	19.25M	105W
	Silver	4109T	8	2.00GHz	11M	70W
	Silver	4112	4	2.60GHz	8.25M	85W
	Silver	4114	10	2.20GHz	13.75M	85W
	Silver	4108	8	1.80GHz	11M	85W
	Silver	4110	8	2.10GHz	11M	85W
	Silver	4116	12	2.10GHz	16.5M	85W
Bronze	3106	8	, 1.70GHz	11M	85W	
Bronze	3104	6	1.70GHz	8.25M	85W	

## Memory AVL

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

SMC	Manufacturer	Manuf. Part #	Component VRAM Component Part #	# of Ranks	RoHS Compliant	Profile
MEM-DR480L-CL02-ER26	Micron	MTA9ASF1G72PZ-2G6D1	Micron		1 RoHS	Low Profile
MEM-DR480L-SL02-ER26	Samsung	M393A1G40EB2-CTD	Samsung	K4A4G045WE-BCTD	1 RoHS	Low Profile
MEM-DR416L-SL02-ER26	Samsung	M393A2K40BB2-CTD	Samsung	K4A8G045WB-BCTD	1 RoHS	Low Profile
MEM-DR432L-SL02-ER26	Samsung	M393A4K40BB2-CTD	Samsung	K4A8G045WB-BCTD	2 RoHS	Low Profile

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
Network Card			S40G-i2Q		PCI-E 3.0	x8	40GbE		2	QSFP	LP
			SGP-i2		PCI-E 2.0	x4	1 GbE		2	RJ45	LP
			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
			STG-i4S		PCI-E 3.0	x8	10 GbE		4	SFP+	LP
			STGN-i1S		PCI-E 2.0	x8	10 GbE		1	SFP+	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		2	SFP+	LP
			XL710		PCIe Gen3	x8	40GbE		2	SFP+	LP
			X710-DA4		PCIe Gen3	x8			4	SFP+	LP
	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	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
Storage Car	Samsung	SM1715		PCIe Gen3	x8	PCIe NVMe		LP		
	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" size 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	7200 RPM
	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
	HUS156060VLS600	SAS	6Gb/s	A202	600GB	3.5"	64MB	15K RPM
	HUS156045VLS600	SAS	6Gb/s	A202	450GB	3.5"	64MB	15K RPM
	HUS156030VLS600	SAS	6Gb/s	A202	300GB	3.5"	64MB	15K RPM
	HUS726060AL5210	SAS	12Gb/s		6TB	3.5"	128MB	7200 RPM
	HUS726040AL4214	SAS	12Gb/s		4TB	3.5"	128MB	7200 RPM
	ST3000NM0043	SAS	6Gb/s	1	3TB	3.5"		7200 RPM
	ST2000NM0043	SAS	6Gb/s	1	2TB	3.5"		7200 RPM
	ST1000NM0043	SAS	6Gb/s	1	1TB	3.5"		7200 RPM
	ST4000NM0023	SAS	6Gb/s	ZZZZ	4TB	3.5"		7200 RPM
	ST3000NM0023	SAS	6Gb/s	ZZZZ	3TB	3.5"		7200 RPM
	ST2000NM0023	SAS	6Gb/s	ZZZZ	2TB	3.5"		7200 RPM
	ST1000NM0023	SAS	6Gb/s	ZZZZ	4TB	3.5"		7200 RPM
	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

Manufacturer	Manufacturer Part #	Interface	Capacity	Buffer	Transfer Rate	MTBF/MTTF	rpm	Size
Seagate	ST2000NX0253	SATA-3	2000GB	128MB	6.0Gb/sec	2.0M	7200	2.5"
Seagate	ST2000NX0403	SATA-3	2000GB	128MB	6.0Gb/sec	2.0M	7200	2.5"
Seagate	ST1000NX0313	SATA-3	1000GB	128MB	6.0Gb/sec	2.0M	7200	2.5"
Seagate	ST1000NX0423	SATA-3	1000GB	128MB	6.0Gb/sec	2.0M	7200	2.5"
Intel	HDS-2TD-SSDSC2BB960G7	SATA-3	960GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Intel	HDS-2TD-SSDSC2BB800G7	SATA-3	800GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Intel	HDS-2TD-SSDSC2BB480G7	SATA-3	480GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Intel	SSDSC2BX480G4	SATA-3	480GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Intel	HDS-2TM-SSDSC2BA400G4	SATA-3	400GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Intel	HDS-2TD-SSDSC2BB240G7	SATA-3	240GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Intel	HDS-2TM-SSDSC2BA200G4	SATA-3	200GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Intel	HDS-2TD-SSDSC2BB016T7	SATA-3	1600GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Intel	SSDSC2BB016T6	SATA-3	1600GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Intel	SSDSC2BX016T4	SATA-3	1600GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Intel	HDS-2TD-SSDSC2BB150G7	SATA-3	150GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Intel	HDS-2TD-SSDSC2BB012T7	SATA-3	1200GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Intel	SSDSC2BA012T4	SATA-3	1200GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Intel	SSDSC2BB012T6	SATA-3	1200GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK960TBY-1AR16ABYY	SATA-3	960GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK960TBY-1AR1ZABYY	SATA-3	960GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK960TCB-1AR16ABYY	SATA-3	960GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK960TCB-1AR1ZABYY	SATA-3	960GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK960TCC-1AR1ZABYY	SATA-3	960GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK960MBP-1AN16ABYY	SATA-3	960GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK960MBP-1AN1ZABYY	SATA-3	960GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK800MBP-1AN16ABYY	SATA-3	800GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK800MBP-1AN1ZABYY	SATA-3	800GB	0MB	6.0Gb/sec	2000000	SSD	2.5"



Micron	MTFDDAK800MBP-2AN16ABYY	SATA-3	800GB	0MB	6.0Gb/sec	2000	SSD	2.5"
Micron	MTFDDAK600MBP-1AN16ABYY	SATA-3	600GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK480TBY-1AR16ABYY	SATA-3	480GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK480TBY-1AR1ZABYY	SATA-3	480GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK480TCB-1AR16ABYY	SATA-3	480GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK480TCB-1AR1ZABYY	SATA-3	480GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK480TCC-1AR1ZABYY	SATA-3	480GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK480MBP-1AN16ABYY	SATA-3	480GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK480MBP-1AN1ZABYY	SATA-3	480GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK480MBP-2AN16ABYY	SATA-3	480GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK240TCB-1AR16ABYY	SATA-3	240GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK240TCB-1AR1ZABYY	SATA-3	240GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK240TCC-1AR1ZABYY	SATA-3	240GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK240MBP-1AN16ABYY	SATA-3	240GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK240MBP-1AN1ZABYY	SATA-3	240GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK240MBP-2AN16ABYY	SATA-3	240GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK1T9TBY-1AR16ABYY	SATA-3	1920GB	0MB	6.0Gb/sec	2000	SSD	2.5"
Micron	MTFDDAK1T9TBY-1AR1ZABYY	SATA-3	1920GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK1T9TCB-1AR16ABYY	SATA-3	1920GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK1T9TCB-1AR1ZABYY	SATA-3	1920GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK1T9TCC-1AR1ZABYY	SATA-3	1920GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK120MBP-1AN16ABYY	SATA-3	120GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK120MBP-1AN1ZABYY	SATA-3	120GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Micron	MTFDDAK120MBP-2AN16ABYY	SATA-3	120GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Samsung	MZ7KM960HAHP-00005	SATA-3	960GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Samsung	MZ7LM960HCHP-00005	SATA-3	960GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Samsung	MZ7KM480HAHP-00005	SATA-3	480GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Samsung	MZ7LM480HCHP-00005	SATA-3	480GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Samsung	MZ7LM3T8HCJM-00005	SATA-3	3800GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Samsung	MZ7KM240HAGR-00005	SATA-3	240GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Samsung	MZ7LM240HCGR-00005	SATA-3	240GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Samsung	MZ7KM1T9HAJM-00005	SATA-3	1900GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Samsung	MZ7LM1T9HCJM-00005	SATA-3	1900GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Samsung	MZ7KM120HAFD-00005	SATA-3	120GB	0MB	6.0Gb/sec	2000000	SSD	2.5"

Samsung	MZ7LM120HCFD-00005	SATA-3	120GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
SanDisk	SDLF1CRR-019T-1HA2	SATA-3	1920GB	0MB	6.0Gb/sec	2000000	SSD	2.5"
Seagate	XF1230-1A0960	SATA-3	960GB	0MB	6.0Gb/sec	2.0M	SSD	2.5"
Seagate	XF1230-1A0480	SATA-3	480GB	0MB	6.0Gb/sec	2.0M	SSD	2.5"
Seagate	XF1230-1A0240	SATA-3	240GB	0MB	6.0Gb/sec	2.0M	SSD	2.5"
Seagate	XF1230-1A1920	SATA-3	1920GB	0MB	6.0Gb/sec	2.0M	SSD	2.5"
Toshiba	THNSNJ800PCSZ	SATA-3	800GB	0MB	6.0Gb/sec		SSD	2.5"
Toshiba	THNSNJ400PCSZ	SATA-3	400GB	0MB	6.0Gb/sec		SSD	2.5"
Toshiba	THNSNJ200PCSZ	SATA-3	200GB	0MB	6.0Gb/sec		SSD	2.5"