



LAB AND ENGINEERING

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 Premio's enclosure. The list is curated from Premio's 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

[CPU](#)

[Memory](#)

[IO Card](#)

[HDD](#)

[OS Drive](#)

Document Version 1.00
Release Date 2017.11.1



CPU AVL

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



Memory AVL

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	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	
	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 Card	Mellanox	ConnectX-3	CX354A		PCIe Gen3	x8	5Gb/s IB or 40GbE		2	QSFP	LP	
	Mellanox	ConnectX-3	CX353A		PCIe Gen3	x8	5Gb/s IB or 40GbE		1	QSFP	LP	
	Mellanox	ConnectX-4	CX456A		PCIe Gen3	x8	00Gb/s IB or GbE				LP	
	Mellanox	ConnectX-4	CX415A		PCIe Gen3	x8	00Gb/s IB or GbE				LP	
	Mellanox	ConnectX-4	CX416A		PCIe Gen3	x8	00Gb/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



SAS HDD AVL

This list is compiled based on the compatibility between hard drives and expander. Premio's 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	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
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

Vendor	Model	Type	Gen	FW	Capacity	Size	Cache	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



SSD AVL

Below is the list of SATA SSD supported by the JBOD. 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

Vendor	Series	Model	Interface	Capacity	Flash Tech	Form Factor
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
Toshiba	HG5d	THNSNHxxxGBST	SATA 6Gb/s	60GB - 512GB	MLC	2.5" x 9.5mm



OS Drive AVL

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	



SATADOM AVL

Vendor	Part Number	Model	Interface	Option	Flash	Capacity
Innodisk	DESIH-16GJ30ACA QS	D150QV	SATAII 3G		SLC	16GB
	DESIH-08GJ30AC1DN	D150QV	SATAII 3G		MLC	8GB
	DESIH-16GJ30AC1DN	D150QV	SATAII 3G		MLC	16GB
	DESIB-64GJ30AC2 QNF	D150QH	SATAII 3G	Pin-7 VCC	MLC	64GB
	DESIH-08GJ30AC1DN	D150QV	SATAII 3G		SLC	8GB
	DESIL-08GJ30ACA QS	D150QV-L	SATAII 3G		SLC	8GB
	DESIL-16GJ30ACA QS	D150QV-L	SATAII 3G		SLC	16GB
	DESIB-08GJ30ACA QS	D150QH	SATAII 3G		SLC	8GB
	DESIB-16GJ30ACA QS	D150QH	SATAII 3G		SLC	16GB
	DESIB-32GJ30ACA QS	D150QH	SATAII 3G		SLC	32GB
	DESIH-16GJ30AC1 QN	D150QV	SATAII 3G		MLC	16GB
	DESIH-32GJ30AC1 QN	D150QV	SATAII 3G		MLC	32GB
	DESIH-64GJ30AC1 QN	D150QV	SATAII 3G		MLC	64GB
	DESIB-16GJ30AC1 QN	D150QH	SATAII 3G		MLC	16GB
	DESIB-32GJ30AC1 QN	D150QH	SATAII 3G		MLC	32GB
	DESIL-08GJ30ACA QSF	D150QV-L	SATAII 3G	Pin-7 VCC	SLC	8GB
	DESIB-08GJ30ACA QSF	D150QH	SATAII 3G	Pin-7 VCC	SLC	8GB
	DESIB-16GJ30ACA QSF	D150QH	SATAII 3G	Pin-7 VCC	SLC	16GB
	DESIB-32GJ30ACA QSF	D150QH	SATAII 3G	Pin-7 VCC	SLC	32GB