



FlacheStreams FlacheSAN2N Skylake U.2 Enclosure 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

FlacheSAN1N24U-D5

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Socket	Family	Number	Core	Frequency	Cache	Power
LGA3647	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

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

Vendor	Module	Type	Type3	Type2	Size	Chipmaker	Chip
Kingston	KVR21R15D4/16HA	DDR4	RDIMM	ECC	16GB	Hynix	H5AN8G4NAFR
Samsung	M393A4K40BB0-CPB	DDR4	RDIMM	ECC	32GB	SEC	K4A8G045WBBCPB
Crucial	CT32G4LFD424A	DDR4	LRDIMM	ECC	32GB	Micron	7DB75D97BJ
Hynix	HMA82GR7AFR8N-UH	DDR4	RDIMM	ECC	16GB	Hynix	H5AN8G4NAFR
Micron	MTA18ASF2G72PZ-2G3A1K	DDR4	RDIMM	ECC	16GB	Micron	5QA47D9SRK
Micron	MTA18ASF2G72PZ-2G3B1RG	DDR4	RDIMM	ECC	16GB	Micron	6CB47D9TBJ
Micron	MTA36ASF4G72PZ-2G3B1	DDR4	LRDIMM	ECC	32GB	Micron	7DB75D9TBJ
Samsung	M386A4K40BB0-CRC	DDR4	LRDIMM	ECC	32GB	SEC	K4A8G045WBBCRC
ATP	A4B08QD8BNTDME	DDR4	RDIMM	ECC	8GB	Micron	6YB47D9TNW
ATP	A416QC4BNTDME	DDR4	RDIMM	ECC	16GB	Micron	7DB77D9TNT
Kingston	KSM26RS4/16HAI	DDR4	RDIMM	ECC	16GB	Hynix	H5ANBG4NAFR
Kingston	KSM26RS4/32HAI	DDR4	RDIMM	ECC	32GB	Hynix	H5ANBG4NAFR
Samsung	M393A2K40BB2-CTD7Q	DDR4	RDIMM	ECC	16GB	SEC	K4A8G045WBBCTD
Samsung	M393A2K40BB2-CTD6Q	DDR4	RDIMM	ECC	16GB	SEC	K4A8G045WBBCTD

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	MegaRAID	SAS 9260-8i	SAS3108 ROC	PCIe Gen2	x8	6Gb/s	8	0	SFF-8087	LP
	Avago	HBA	SAS 9217-8i	SAS2308	PCIe Gen3	x8	6Gb/s	8	0	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 9300-16i	SAS3008 IOC	PCIe Gen3	x8	12Gb/s	16	0	SFF-8643	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		PCIe Gen3	x8	6Gb/s	16	0	SFF-8643	LP
	Adaptec		ASR-81605Z		PCIe Gen3	x8	12Gb/s	16	0	SFF-8643	LP
	ATTO		H12F0		PCIe Gen3	x8	12Gb/s	0	16	SFF-8644	LP
Network							56Gb/s IB				
Card	Mellanox	ConnectX-3	CX354A		PCIe Gen3	x8	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	3Gb/s IB or GbE				LP
	Mellanox	ConnectX-4	CX415A		PCIe Gen3	x8	3Gb/s IB or GbE				LP
	Mellanox	ConnectX-4	CX416A		PCIe Gen3	x8	3Gb/s IB or GbE				LP
	Intel		i350-T2		PCIe Gen3	x4	1GbE		2	RJ-45	LP
	Intel		X520	82599	PCIe Gen3	x8	10GbE		2	SFP+	LP
	Intel		XL710		PCIe Gen3	x8	40GbE		2	SFP+	LP
	Intel		X710-DA4		PCIe Gen3	x8			4	SFP+	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
	Qlogic	QLE2563		PCIe Gen3	x8					LP
	Qlogic	QLE2672		PCIe Gen3	x8					LP
	Qlogic	QLE3242		PCIe Gen3	x8			2	RJ-45	LP
	HotLava	HL-100G2Q-XL	XL710	PCIe Gen3	x8	40GbE		1	QSFP	LP
	Atto	FC-322E				32Gb FC				LP
	Tyan	P1103B		PCIe Gen1	x4	GbE		2	RJ-45	LP
Storage										
Card	Samsung	SM1715		PCIe Gen3	x8	PCIe NVMe				LP
	Kingston	EP1000		PCIe Gen3	x8	PCIe NVMe				LP
	Intel	SSDPEDMD400G4		PCIe Gen3	x4	PCIe NVMe				LP

Below is the list of U.2 NVMe SSD supported by the enclosure.

Vendor	Series	Model	Interface	Width	Capacity	Form Factor
Toshiba	PX04PMB080	SDFKR02GEA01	PCIe NVMe 3.0	x4	800GB	2.5" 15mm
		SDFKT02GEA01	PCIe NVMe 3.0	x4	960GB	2.5" 15mm
		SDFKS02GEA01	PCIe NVMe 3.0	x4	1TB	2.5" 15mm
	PX04PMB160	SDFKR01GEA01	PCIe NVMe 3.0	x4	1.6TB	2.5" 15mm
		SDFKT01GEA01	PCIe NVMe 3.0	x4	1.92TB	2.5" 15mm
		SDFKS01GEA01	PCIe NVMe 3.0	x4	2TB	2.5" 15mm
	PX04PMB320	SDFKR00GEA01	PCIe NVMe 3.0	x4	3.2TB	2.5" 15mm
		SDFKT00GEA01	PCIe NVMe 3.0	x4	3.84TB	2.5" 15mm
		SDFKS00GEA01	PCIe NVMe 3.0	x4	4TB	2.5" 15mm
Intel	SSD 750		PCIe NVMe 3.0	x4	400GB	2.5" 15mm
			PCIe NVMe 3.0	x4	800GB	2.5" 15mm
			PCIe NVMe 3.0	x4	1.2TB	2.5" 15mm
Samsung	PM1725		PCIe NVMe 3.0	x4	800GB	2.5" 15mm
			PCIe NVMe 3.0	x4	1.6TB	2.5" 15mm
			PCIe NVMe 3.0	x4	3.2TB	2.5" 15mm
Micron	9100	MTFDHAL800MCE-1AN1Z	PCIe NVMe 3.0	x4	800GB	2.5" 15mm
		MTFDHAL1T2MCF-1AN1Z	PCIe NVMe 3.0	x4	1200GB	2.5" 15mm
		MTFDHAL1T6MCE-1AN1Z	PCIe NVMe 3.0	x4	1600GB	2.5" 15mm
		MTFDHAL2T4MCF-1AN1Z	PCIe NVMe 3.0	x4	2400GB	2.5" 15mm
		MTFDHAL3T2MCE-1AN1Z	PCIe NVMe 3.0	x4	3200GB	2.5" 15mm

Model	Type	Form	Vendor	Capacity	Part Number
HDD	SATA 6Gb/s	3.5"	HGST	2TB	HUS724020AL
	SATA 6Gb/s	2.5"	Seagate	500GB	ST9500620NS
	SATA 6Gb/s	3.5"	Seagate	3TB	ST33000651AS
	SATA 6Gb/s	2.5"	Seagate	1TB	ST91000640NS
	SATA 6Gb/s	3.5"	Seagate	8TB	ST8000NC0002
	SATA 6Gb/s	3.5"	Seagate	4TB	ST4000NM0024
	SATA 6Gb/s	2.5"	Seagate	250GB	ST9250610NS
	SATA 6Gb/s	3.5"	Seagate	4TB	ST4000NM0033
	SATA 6Gb/s	3.5"	Seagate	3TB	ST3000NC002
	SATA 6Gb/s	3.5"	Seagate	1TB	MG03ACA1
	SATA 6Gb/s	3.5"	Western Digital	4TB	WD4000FYYZ-01UL1B2
	SATA 6Gb/s	3.5"	Western Digital	1TB	WD1005FBYZ-01YCBB2
SSD	SATA 6Gb/s	2.5"	Intel	240GB	SSDSC2KW240H6
	SATA 6Gb/s	2.5"	Intel	1TB	SSDSC2KW010X6
	SATA 3Gb/s	2.5"	Micron	120GB	MTFDDAK120MAV
	SATA 6Gb/s	2.5"	Micron	1TB	MTFDDAK1T0MBF
	SATA 6Gb/s	2.5"	Sandisk	256GB	SD8SB8U-256G-1122
	SATA 6Gb/s	2.5"	Sandisk	512GB	SD7SB2Q-512G
	SATA 6Gb/s	2.5"	Sandisk	256GB	SD7SB3Q-256G
	SATA 6Gb/s	2.5"	Sandisk	960GB	SD7SB7S-960G
	SATA 6Gb/s	2.5"	Toshiba	256GB	THNSNJ256GCSY
	SATA 6Gb/s	2.5"	Toshiba	512GB	THNSNJ512GCSU