



End-User Center of Competence

MegaRAID Interoperability Report for 87xx/88xx Series

This represents basic compatibility and is only a guide to hardware which is known to function with the listed MegaRAID SAS/SATA controllers.

The End User Center of Competence performs comprehensive functionality testing in order to demonstrate compatibility of the MegaRAID product line. The listed components represent the interoperability guide for the direct attached storage ecosystem based on our findings. Testing consists of over 50 individual test cases specific to Enclosures, Drives, and Motherboards and includes RAID functionality across all supported RAID levels, basic enclosure SES functions (Drive Locate, Array locate, fan poling, temperature, power supply information, enclosure information), enclosure power cycles during IO and physical drive pulls.

Updated 12/22/2010

Adapters ♦ SAS/SATA Enclosures ♦ Hard Disk Drives ♦ Solid State Drives ♦ Tape Drives ♦ Cables

Controllers	SAS/SATA Enclosures
LSI MegaRAID SAS 8708EM2 LSI MegaRAID SAS 8704EM2 LSI MegaRAID SAS 8708ELP LSI MegaRAID SAS 8704ELP LSI MegaRAID SAS 8880EM2 LSI MegaRAID SAS 8888ELP Intel RAID Controller SRCSAS18E Intel RAID Controller SRCSAS144E Intel RAID Controller SRCSASRB Intel RAID Controller SRCSATAWB	Adaptec 335SAS Area Data Systems DNS-1200 Area Data Systems DNS-1400 CIDESIGN CiSE316-JBOD SAS EXPANDER CIDESIGN CiNSR316-3U System Chassis Dell PowerVault MD1000 IBM EXP3000 INTEL Riggins OneStor 5000AA PROMISE VTrak J300s PROMISE VTrak E610s AIC XJ-SA24-316R AIC XJ-SA12-316R AIC XJ-SA26-212R AIC XJ-SA13-212R AIC XJ-SA26-224R AIC XJ-SA13-224R AIC XJ-SA26-110R AIC XJ-SA13-110R AIC RSC-3EC-95R-SA1S-2 Chenbro RM23212ML Chenbro RM31616ML LSI 620J (2U, 2.5" SAS & SATA, support 24 drives) LSI 630J (2U, 2.5" SAS & SATA, support 12 drives) LSI DE5300-SAS LSI SYM3600-SAS HP MSA60

Hard Drives

Type	Manufacturer	Model	FW Version	Capacity
SAS	FUJITSU	MBE2073RC	0103	73GB
SAS	FUJITSU	MBB2147RC	0105	140GB
SAS	FUJITSU	MAY2036RC	D109	36GB
SAS	FUJITSU	MAY2073RC	5204	73GB
SAS	FUJITSU	MAX3073RC	104	73GB
SAS	FUJITSU	MAX3036RC	104	36GB
SAS	FUJITSU	MAV2036RC	A1	36GB
SAS	FUJITSU	MAU3147RC	104	147GB
SAS	FUJITSU	MAX3036RC	0104D	36GB
SAS	FUJITSU	MAU3036RC	D0B0	36GB
SAS	FUJITSU	MAU3073RC	103	73GB
SAS	FUJITSU	MAV2073RC	0DGN	73GB
SAS	FUJITSU	MAU3147RC	A230	147GB
SATA	FUJITSU	MHV2060B0000	MHV2060B0	60GB
SATA	FUJITSU	MZX3036RC	D206	36GB
SATA	FUJITSU	MHW2080B	001A	75GB
SAS	FUJITSU	MBA3300RC	0103	300GB

SAS	FUJITSU	MBA3147RC	0103	147GB
SAS	FUJITSU	MBA3073RC	0103	73GB
SAS	FUJITSU	MBB2073RC	0105	73GB
SATA	FUJITSU	MHZ2320B	0009	320GB
SATA	FUJITSU	MHZ2320B	001E	320GB
SATA	FUJITSU	MJA2320B	0018	320GB
SATA	FUJITSU	MHZ2160B	011E	160GB
SATA	FUJITSU	MHZ2160B	0009	160GB
SATA	FUJITSU	MHZ2250B	0009	250GB
SATA	FUJITSU	MHZ2250B	001E	250GB
SATA	FUJITSU	MJA2400B	0018	400GB
SATA	FUJITSU	MHZ2080B	001E	80GB
SATA	FUJITSU	MHZ2120B	0109	120GB
SAS	HITACHI	HUS154545VLS300	A4B0	450GB
SAS	HITACHI	HUC156060VLS601	B530	600GB
SAS	HITACHI	HUC151414CSS600	A330	147GB
SAS	HITACHI	HUC151473CSS600	A330	147GB
SAS	HITACHI	HUC151414CSS600	A370	147GB
SAS	HITACHI	HUS156060VLS600	A392	600GB

SAS	HITACHI	HUC103014CSS600	A120	147GB
SAS	HITACHI	HUC103030CSS600	A120	300GB
SAS	HITACHI	HUS151473VLS300	A211	70GB
SAS	HITACHI	HUS151436VLS300	A230	36GB
SAS	HITACHI	HUS153073VLS300	A120	73GB
SAS	HITACHI	HUS151436VL300	A130	34GB
SAS	HITACHI	HUS151414VLS300	A120	146GB
SAS	HITACHI	HDS725050KLA360	ABOA	500GB
SAS	HITACHI	HUS151473VL300	A211	73GB
SATA	HITACHI	HDS72202ALA360	A20N	2TB
SATA	HITACHI	HUA7220202ALA330	28A	2TB
SATA	HITACHI	HUA720010CLA330	A39C	1TB
SATA	HITACHI	HDT21010SLA360	A3AA	1TB
SATA	HITACHI	HDT722516DLA380	A80A	164GB
SATA	HITACHI	HDE72101	A31B	1TB
SATA	HITACHI	HUA72201	A25C /A39C	1TB
SATA	HITACHI	HDT722525DLA380	V44O	250GB
SATA	HITACHI	HDS722512VLSA80	V33O	120GB
SATA	HITACHI	HDP72502G	M20	250GB
SATA	HITACHI	HDP72502A	50E	250GB

SATA	HITACHI	HDS728080PLA380	PF2O	80GB
SATA	HITACHI	HDS722516VLSA80	V34O	160GB
SATA	HITACHI	HDS728080PLA380	A6EA	80GB
SATA	HITACHI	HDS722580VLSA80	A60A	750GB
SATA	HITACHI	HTE721010G9SA00	MCZ0	100GB
SATA	HITACHI	HTE721060G9SA00	MC30	60GB
SATA	HITACHI	HDS72107A70M	A70M	750GB
SATA	HITACHI	HDS728080PLA380	A69A	80GB
SATA	HITACHI	HDP72502GO25	N/A	250GB
SATA	HITACHI	DS728080PLA380	PO26	80GB
SATA	HITACHI	HDS724040KLSA80	KFAO	400GB
SATA	HITACHI	HDS724040KL	SA80	400GB
SATA	HITACHI	HDS72161	P22O	150GB
SATA	HITACHI	HDP72502	A50E	250GB
SATA	HITACHI	HUS151473VLS300	88VVK	73GB
SATA	HITACHI	HDS721616PLA380	P22OABEA	160GB
SATA	HITACHI	HDP725050GLA360	GM4OA52A	500GB
SATA	HITACHI	HDP72502A50E	N/A	250GB
SATA	HITACHI	HDS72161ABEA	N/A	160GB
SATA	HITACHI	HDP72502GM2O	N/A	250GB

SATA	HITACHI	HDT722516DLA380	A80A	160GB
SATA	HITACHI	HDS72168P21O	N/A	80GB
SATA	HITACHI	HDS724040KLSA80	KFAO	380GB
SATA	HITACHI	HDS72168	P21O	80GB
SATA	HITACHI	HDS728080PLA380	PF2O	80GB
SATA	HITACHI	HDS721010KLA330	N/A	1TB
SATA	HITACHI	HDS721616PLA380	ABEA	160GB
SATA	HITACHI	HDT72502	A72A	250GB
SATA	HITACHI	HDS72161AB1A	PVD	150GB
SATA	HITACHI	HDS725050KL360	KRVN	500GB
SATA	HITACHI	HDT725025VLA380	VFA1	250GB
SATA	HITACHI	HDE721050SLA330	GM40	500GB
SATA	HITACHI	HDE721010SLA330	A31B	1TB
SATA	HITACHI	HDS722020ALA330	A20N	2TB
SATA	HITACHI	HDT721010SLA360	A3AA	1TB
SAS	MAXTOR	ATLAS10K5_73SAS	BG3R	73GB
SAS	MAXTOR	ATLAS10K5_147SAS	BP00	146GB
SAS	MAXTOR	ATLAS15K2_36SAS	BG3R	36GB
SAS	MAXTOR	ATLAS10K5_300SAS	BP00	300GB

SAS	MAXTOR	8K14750	MS05	146GB
SAS	MAXTOR	8J14750	MS05	146GB
SAS	MAXTOR	ATLAS10K5_073	BP00	73GB
SAS	MAXTOR	8J300S0	MS05	300GB
SAS	MAXTOR	ATLAS10K5_073SAS	BG34	73GB
SAS	MAXTOR	ATLAS105K2_36SAS	BG3R	36GB
SAS	MAXTOR	ATLAS10K5_73SAS	BG3H	70GB
SAS	MAXTOR	ATLAS15K2_36SAS	BG3R	36GB
SAS	MAXTOR	7H500F0	1DD0	500GB
SAS	MAXTOR	ATLAS15K II 8K036S0	MS05	36GB
SAS	MAXTOR	ATLAS15K2_36SAS	BG3H	36GB
SAS	MAXTOR	ATLAS10K V 8J073S0	MS05	73GB
SAS	MAXTOR	ATLAS10K V 8J073S0	BP00	73GB
SAS	MAXTOR	ATLAS10K5_073SAS	BG3R	73GB
SAS	MAXTOR	ATLAS10K5_0735SAS	BP00	73GB
SAS	MAXTOR	ATLAS15K II 8K147S0	MS05	146GB
SAS	MAXTOR	ATLAS10K V 8J147S0	MS05	146GB
SAS	MAXTOR	ATLAS10K5_300SAS	BK05	300GB
SATA	MAXTOR	STM316081	3.AA	160GB
SATA	MAXTOR	7B300S0	1.00	300GB

SATA	MAXTOR	STM3160	081D	160GB
SATA	MAXTOR	6B250S0	LCVH	250GB
SATA	MAXTOR	7H500F0	HA43	500GB
SATA	MAXTOR	6B300S0	V0VH	300GB
SATA	MAXTOR	6Y080M0	1EW0	80GB
SATA	MAXTOR	6V250F0	1630	240GB
SATA	MAXTOR	7L250S0	BCNE	250GB
SATA	MAXTOR	6V300F0	V116	300GB
SATA	MAXTOR	STM3160815AS	3.AAD	160GB
SATA	MAXTOR	STM3160813	AA	160GB
SATA	SAMSUNG	SP1614C	0-25	160GB
SATA	SAMSUNG	SP2504C	0-33	250GB
SATA	SAMSUNG	HD040GJ	A13845	40GB
SATA	SAMSUNG	HD040GJ	W01	40GB
SATA	SAMSUNG	SP0812C	2211	80GB
SATA	SAMSUNG	HD160JJ	A124761	160GB
SATA	SAMSUNG	HD160JJ	W01	160GB
SATA	SAMSUNG	HD080HJ	0-33	80GB
SATA	SAMSUNG	SP2504C	0-33	250GB

SATA	SAMSUNG	HE103UJ	1113	1TB
SAS	SEAGATE	ST32000641AS	A.33H	2TB
SAS	SEAGATE	ST3600002SS	0002	600GB
SAS	SEAGATE	ST9300603SS	FS61	300GB
SAS	SEAGATE	ST9500430SS	0003	500GB
SAS	SEAGATE	ST9500431SS	0003	500GB
SAS	SEAGATE	ST9146703SS	FT00	146GB
SAS	SEAGATE	ST3450802SS	0004	450GB
SAS	SEAGATE	ST973452SS	B623	73GB
SAS	SEAGATE	ST936751SS	0001	36GB
SAS	SEAGATE	ST3300657SS	0005	300GB
SAS	SEAGATE	ST9146803SS	0004	146GB
SAS	SEAGATE	ST973402SS	0002	146GB
SAS	SEAGATE	ST3146356SS	0004	73GB
SAS	SEAGATE	ST32000444SS	0004	2TB
SAS	SEAGATE	ST31000424SS	0004	1TB
SAS	SEAGATE	ST3500414SS	0004	500GB
SAS	SEAGATE	ST3450857SS	0005	450GB
SAS	SEAGATE	ST9146802SS	MSB0	146GB

SAS	SEAGATE	ST373454SS	2	70GB
SAS	SEAGATE	ST3146854SS	MS04	146GB
SAS	SEAGATE	ST373455SS	0.002	73GB
SAS	SEAGATE	ST330065SS	1	300GB
SAS	SEAGATE	8K147S0	MS05	147GB
SAS	SEAGATE	ST3300555SS	BA33	300GB
SAS	SEAGATE	8K036S0	NBH0	36GB
SAS	SEAGATE	8J073S0	NBH0	73GB
SAS	SEAGATE	ST336754SS	2	36GB
SAS	SEAGATE	ST3750640NS	3QD0	750GB
SAS	SEAGATE	ST3120023AS		120GB
SAS	SEAGATE	ST336754SS	2	36GB
SAS	SEAGATE	ST3146854SS	2	146GB
SAS	SEAGATE	ST336754SS	AB17	36GB
SAS	SEAGATE	ST9300503SS	FT00	300GB
SAS	SEAGATE	ST373455SS	S527	73GB
SAS	SEAGATE	ST31000640SS	E319	1TB
SAS	SEAGATE	ST3450857SS	0005	450GB
SAS	SEAGATE	ST3200540AS	CC83	2TB

SATA	SEAGATE	ST32000644NS	SN11	2TB
SATA	SEAGATE	ST3200041AS	CC13	2TB
SATA	SEAGATE	ST9500530NS	SN02	500GB
SATA	SEAGATE	ST31000340NS	SN03, SN06, AN05	1TB
SATA	SEAGATE	ST3500641AS	A	500GB
SATA	SEAGATE	ST380811AS	3.AA	80GB
SATA	SEAGATE	ST3160815AS	3AAD	160GB
SATA	SEAGATE	ST3750840NS	3.AE	750GB
SATA	SEAGATE	ST380013AS	3.18	80GB
SATA	SEAGATE	ST3160023AS	3.18	160GB
SATA	SEAGATE	ST3250820NS	3EA	250GB
SATA	SEAGATE	ST340014AS	821	40GB
SATA	SEAGATE	ST3750840AS	3AAD	750GB
SATA	SEAGATE	ST3160827AS	3	160GB
SATA	SEAGATE	ST380815AS	3AAD	80GB
SATA	SEAGATE	ST310003S30	N/A	1TB
SATA	SEAGATE	ST310003S	SN03	1TB
SATA	SEAGATE	ST3750640AS	3.AAD	750GB
SATA	SEAGATE	ST3750640NS	3.AEG	750GB
SATA	SEAGATE	ST3250620NS	3.AEE	250GB

SATA	SEAGATE	ST3250824AS	H	250GB
SATA	SEAGATE	ST380811AS	E	80GB
SATA	SEAGATE	ST3160827AS	3	160GB
SATA	SEAGATE	ST3500641NS	N	500GB
SATA	SEAGATE	ST380817AS	3.42	80GB
SATA	SEAGATE	ST3200822AS	3.01	200GB
SATA	SEAGATE	ST380815AS	F	75GB
SATA	SEAGATE	ST350064INS	3PM1	500GB
SATA	SEAGATE	ST3500641AS	3PM0	500GB
SATA	SEAGATE	ST3500630NS	3 AEG	500GB
SATA	SEAGATE	ST3250620NS	3.AEE	250GB
SATA	SEAGATE	ST3750330NS	SN05	750GB
SATA	SEAGATE	ST31000340NS	SN03	1TB
SAS	TOSHIBA	MBF2600RC	107	600GB
SATA	TOSHIBA	MK1637GS	DL02	160GB
SATA	WD	WD2002FYPS	5G04	2TB
SATA	WD	WD2003FYYS	0D01	2TB
SATA	WD	WD1003FBYX	1S01	1TB

SATA	WD	WD5003ABYX	1V01	500GB
SATA	WD	WD2003FYYS-0	1G01	2TB
SATA	WD	WD2002FYPS-0	0C06	2TB
SATA	WD	WD10002FBYS-0	3	1TB
SATA	WD	WD7500AYYS-0	55MU10.0	750GB
SATA	WD	WD800JD	1C03	80GB
SATA	WD	WD2500JS	H2D0	250GB
SATA	WD	WD2500JD	8F31	250GB
SATA	WD	WD740GD	75N2E04	750GB
SATA	WD	WD1600JS	00FN35.0	160GB
SATA	WD	WD360GD	11	36GB
SATA	WD	WD5000AAKS	1C03	500GB
SATA	WD	WD2000JS	4G30	200GB
SATA	WD	WD7500AYYS	0M06	750GB
SATA	WD	WD5000KS	2D08	500GB
SATA	WD	WD2500JD	A00	250GB
SATA	WD	WD1600AAJS	N2E04	160GB
SATA	WD	WD1600JS	30	160GB
SATA	WD	WD7500AAKS	01P6A01	750GB
SATA	WD	WD4000YR	10	40GB

SATA	WD	WD1600JS-55N	U1E01	160GB
SATA	WD	WD800JD-55M	6A01	80GB
SATA	WD	WD4000YR-01P	6H05	380GB
SATA	WD	WD1600AAJS-7	00M06.0	150GB
SATA	WD	WD5000KS	6K35	500GB
SATA	WD	WDC360GD	WCAN	36GB
SATA	WD	WD2500YS	2	250GB
SATA	WD	WD500YS	1B01	500GB
SATA	WD	WD1000FYPS-01ZKB0	1B01	1TB
SATA	WD	WD5001ABYS-01YNA0	3B03	500GB
SATA	WD	WD5002ABYS-01B1B0	6G09	500GB
SATA	WD	WD4000YD-00K	3B01	400GB
SATA	WD	WD5001AALS-0013B2	3B03	500GB
SATA	WD	WD3202ABYS	OC05	320GB
SATA	WD	WD1002FBYS-01A6B0	5G04	1TB
SATA	WD	WD2002FYPS	0D01	2TB
SATA	WD	WD2003FYYS-0	0A80	2TB
SATA	WD	WD10EADS11M	4V03	1TB
SATA	WD	WD2002FYPS		2TB

Solid State Drives

Type	Manufacturer	Model	FW Version	Capacity
SATA	INTEL	SSDSA2MH080G2GC	02HD	80GB
SATA	INTEL	SSDSA2MH160G2GC	02HD	160GB
SATA	INTEL	X25-E, SSDSA2SH032G1	8650	32GB
SATA	INTEL	X25-E, SSDSA2SH064G1	8650	64GB
SATA	INTEL	X25-M, SSDSA2MH080G1	8626	80GB
SATA	INTEL	X25-M, SSDSA2MH160G1	8626	160GB
SATA	SAMSUNG	2.5" 50GBSSDSATA	803Q	50GB
SATA	SAMSUNG	2.5"100GBSSDSATA	803Q	100GB
SATA	SAMSUNG	MCBQE50G5MXP-0VB03	203Q	50GB
SATA	SAMSUNG	MCCOE1HG5MXP-0VB03	203Q	100GB
SATA	ADATA	AS599S-100GM-C	Rev 5.0	80GB
SATA	ADATA	AS599S-128GM-C	3.1.0	128GB
SATA	ADATA	AS599S-256GM-C	3.1.0	256GB
SATA	SORSAIR	CMFSSD-64D1	0.1	64GB

Tape Drives

Type	Manufacturer	Model	FW Version	Capacity
SAS	TANDBERG DATA	LTO4 HH	U519	800GB
SAS	HP STORAGEWORKS	LT05	236D	3.00TB
SAS	HP	HP LTO3 HH	WP82	160GB
SAS	HP	LTO-3 HH	M63Z	800GB
SAS	QUANTUM	HP LTO4 HH	V2182	800GB
SAS	HP	LTO-4 HH	L411	1.6TB
SAS	QUANTUM	LTO-3 HH	V2170	1.6TB

Cables

Brand	Model #	Connectors	Length
LSI-3Ware	CBL-SSF8087OCF-06M	Internal SSF8087	0.6m
LSI-3Ware	CBL-SFF8088SAS-10M	SSF8088 -Universal connector	1m
LSI-3Ware	CBL-SFF8087-06M	Internal SFF8087 to SATA	0.6m
LSI-3Ware	CBL-SFF8088IB-10M	External SFF8088 to infiniband SFF-8470	1m
Molex	74757-0101	External Ipass to External Ipass	1m
Molex	74547-0301	External Ipass to External Ipass	1m
Molex	74547-2021	External Ipass to Infiniband	1m
Molex	79536-3005	Internal Ipass to External Ipass	0.5m
Molex	74547-3301	Internal Ipass to 4 drive I2C	1m
Molex	74527-6001 6191 (RoHS)	Internal Ipass to Infiniband	0.5m

Super-Micro	CBL-0108L-02, rev D	SFF8087-SFF8086 with Sideband SGPIO	0.45m
Technical Cable Concepts	212626-3000MM	Ipass to Ipass	3m
Technical Cable Concepts	212626-2000MM	SFF8088-SFF8088	2m
Technical Cable Concepts	2136449-1000MM	Int-Infiniband	1m
Technical Cable Concepts	212636-2000MM	SFF8087-SFF8088	2m
Technical Cable Concepts	2136479-1000MM	SFF8087-4SATA	1m