

Promise[®] VessJBOD 1000 Series SR3 Compatibility List

Date: 05/17/2010

VessRAID Systems Covered:

- **VessJBOD 1830** – 2U/12-bay SAS to SAS/SATA JBOD System
- **VessJBOD 1730** – 2U/12-bay SAS to SAS/SATA JBOD System
- **VessJBOD 1840** – 3U/16-bay SAS to SAS/SATA JBOD System
- **VessJBOD 1740** – 3U/16-bay SAS to SAS/SATA JBOD System

Systems Versions Covered:

- **Firmware** – Version 2.10.0000.00 [May. 07, 2010]

DEVICE COMPATIBILITY NOTE:

Basic compatibility between the 3rd party device and Promise device has been verified in typical configurations, unless otherwise stated.

The EOL of 3rd party device may not be in the current list, user can refer older version of Promise compatibility list to get those test result.

DISCLAIMERS:

Only the versions available at time of testing have been verified, as listed.

Corner cases may exist depending on user configuration etc.

Individual 3rd party units may exhibit problems that did not show up in through the Promise test process.

Published performance is not assured with configuration deviations.

Document History

Date	Release Label	Release Version	Notes
2009/7/7	SR2.0	Based on original Compatibility List and qualified some new devices: <ul style="list-style-type: none">● SAS Hard Drive: 4 new models● SATA Hard Drive: 6 new models	
2009/9/18	SR2.1	Based on original SR2 Compatibility List and qualified some new devices: <ul style="list-style-type: none">● SATA Hard Drive: 3 new models	
2009/12/1	SR2.1	Based on original SR2.1 Compatibility List and qualified some new devices: <ul style="list-style-type: none">● SATA Hard Drive: 4 new models	
2010/05/07	SR3.0	Based on original SR2.1 Compatibility List and qualified some new devices: (for blue-color highlights) <ul style="list-style-type: none">● SATA Hard Drive: 1 new models	

1. SAS Host Bus Adapters

SAS HBA compatibility only qualifies on JBOD connectivity test, not include SES test.

Vendor	Model	BIOS/FW	PCI Interface	External Channels	RAID Function
Promise	SuperTrak EX8658	3.00.0000.84	PCle	8 ports	RAID
	SuperTrak EX8654	3.00.0000.84	PCle	4 ports	RAID
	SuperTrak TX8658	3.1.0.0	PCle	8 ports	RAID
3ware	9690SA-414E	FW:4.06.00.015 BIOS:4.06.00.004	PCle	4 ports	RAID
	9690SA-8E	FW:4.06.00.015 BIOS:4.06.00.004	PCle	8 ports	RAID
Adaptec	ASC-1045	4.0.0.0	PCle	4 ports	Non-RAID
	ASR-2045	BIOS:5.2-0 Build 16343	PCle	4 ports	RAID
	ASR-5445	BIOS:5.2-0 Build 16343	PCle	4 ports	RAID
	ASR-3085	BIOS:5.2-0 Build 15753	PCle	8 ports	RAID
	ASR-51245	BIOS:5.2-0 Build 16343	PCle	4 ports	RAID
Areca	ARC-1680	FW:1.45 BIOS: 1.45	PCle	8 ports	RAID
	ARC-1680LP	FW:1.45 BIOS: 1.45	PCle	4 ports	RAID
	ARC-1680ix-8	FW:1.45 BIOS: 1.45	PCle	4 ports	RAID
ATTO	EXPRESSSAS R348	3.01	PCle	4 ports	RAID
	EXPRESSSAS H380	3.01	PCle	8 ports	Non-RAID
	EXPRESSSAS R380	3.01	PCle	8 ports	RAID
DELL	SAS 5/E Adapter	FW: 0.10.51.00-IT BIOS:MPTBIOS-6.12.05.00	PCle	8 ports	Non-RAID
LSI	SAS3801X	FW:1.28.02.00 BIOS:6.28.00.00	PCI-X	8 ports	Non-RAID
	SAS3801E	FW:1.28.02.00 BIOS:6.28.00.00	PCle	8 ports	Non-RAID
	SAS3442X	FW:1.28.02.00 BIOS:6.28.00.00	PCI-X	4 ports	Non-RAID

2. SATA Hard Drives

The RAID controller only uses VessRAID to qualify VessJBOD hard drives compatibility.

- ⚡ In a RAID array setup, we recommend using the enterprise level hard drive as it has much better command timeout control and features stable reliability to vibration compared to desktop one for critical applications.

Vendor	Family	Model	Capacity	Firmware	Buffer	Transfer Rate	Form Factor	NCQ / TCQ	Drive EOL
HITACHI	Ultrastar A7K1000	HUA721010KLA330	1TB	GKAOAB0A	32MB	3Gb/s	3.5"	NCQ	V
		HUA721075KLA330	750GB	GK80AB0A	32MB	3Gb/s	3.5"	NCQ	V
		HUA721050KLA330	500GB	GK6OAB0A	16MB	3Gb/s	3.5"	NCQ	V
	Ultrastar A7K2000	HUA722020ALA330	2TB	20N	32MB	3Gb/s	3.5"	NCQ	
	Deskstar E7K1000	HDE721010SLA330	1TB	ST3OA31B	32MB	3Gb/s	3.5"	NCQ	V
		HDE721075SLA330	750GB	ST4OA31B	32MB	3Gb/s	3.5"	NCQ	V
HDE721050SLA330		500GB	ST3OA31B	32MB	3Gb/s	3.5"	NCQ	V	
SAMSUNG	Spinpoint F1	HE103UJ	1TB	1AA01111	32MB	3Gb/s	3.5"	NCQ	
		HE753LJ	750GB	1AA01117	32MB	3Gb/s	3.5"	NCQ	
		HE502IJ	500GB	1AA01113	16MB	3Gb/s	3.5"	NCQ	
SEAGATE	Barracuda ES.2	ST31000340NS	1TB	SN06	32MB	3Gb/s	3.5"	NCQ	
		ST3750330NS	750GB	SN06	32MB	3Gb/s	3.5"	NCQ	
		ST3500320NS	500GB	SN06	32MB	3Gb/s	3.5"	NCQ	
	SV35.3	ST31000340SV	1TB	SV16	32MB	3Gb/s	3.5"	NCQ	V
		ST3750330SV	750GB	SV16	32MB	3Gb/s	3.5"	NCQ	V
		ST3500320SV	500GB	SV17	32MB	3Gb/s	3.5"	NCQ	V
	SV35.4	ST3320410SV	320GB	CV12	16MB	3Gb/s	3.5"	NCQ	V
	Constellation ES	ST31000524NS	1TB	SN11	32MB	3Gb/s	3.5"	NCQ	
ST320000644NS		2TB	SN11	64MB	3Gb/s	3.5"	NCQ		
WDC	WD VelociRaptor	WD1500HLFS	150GB	04.04V01	16MB	3Gb/s	3.5"	NCQ	
	WD RE2	WD7500AYYS	750GB	30.04G30	16MB	3Gb/s	3.5"	NCQ	V
	WD RE2-GP	WD1000FYPS	1TB	02.01B01	16MB	3Gb/s	3.5"	NCQ	V
		WD7500AYPS	750GB	02.01B01	16MB	3Gb/s	3.5"	NCQ	V
		WD5000ABPS	500GB	02.01B01	16MB	3Gb/s	3.5"	NCQ	V
	WD RE3	WD1002FBYS	1TB	03.00C05	32MB	3Gb/s	3.5"	NCQ	
		WD7502ABYS	750GB	03.00C05	32MB	3Gb/s	3.5"	NCQ	
		WD5002ABYS	500GB	02.03B02	16MB	3Gb/s	3.5"	NCQ	
	WD RE4	WD2003FYYS	2TB	01.01D01	64MB	3Gb/s	3.5"	NCQ	

3. SAS Hard Drives

The RAID controller only uses VessRAID to qualify VessJBOD hard drives compatibility.

Vendor	Family	Model	Capacity	Firmware	Buffer	Transfer Rate	Form Factor	Drive EOL
FUJITSU	MBA3 RC	MBA3147RC	147GB	0103	16MB	3.0Gb/s	3.5"	
HITACHI	Ultrastar 15k300	HUS153030 VLS300	300GB	A410	16MB	3.0Gb/s	3.5"	V
		HUS153014VLS300	147GB	A410	16MB	3.0Gb/s	3.5"	V
	Ultrastar 15K450	HUS154545VLS300	450GB	A750	16MB	3.0Gb/s	3.5"	V
SEAGATE	Barracuda ES.2	ST31000640SS	1TB	0001	16MB	3.0Gb/s	3.5"	
	Cheetah 15k.5	ST3146855SS	146GB	0002	16MB	3.0Gb/s	3.5"	V
	Cheetah 15K.6	ST3300656SS	300GB	0004	16MB	3.0Gb/s	3.5"	
		ST3146356SS	146GB	0005	16MB	3.0Gb/s	3.5'	

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