

VessJ2000 Series

SR1.3 Compatibility List

Date: July 15th, 2013 Version: 1.0

Vess R2000 Series Systems Covered:

- VessJ2600sD – 3U/16-bay SAS to SAS/SATA JBOD System
- Vess J2600sS – 3U/16-bay SAS to SAS/SATA JBOD System

Systems Versions Covered:

- Firmware – Version 1.010000.35

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.

Some listed devices may go EOL. AVL listing does not imply market availability.

Document History

Date	Release Label	Release Version	Notes
January 29, 2013	SR1	First release (blue and orange-color highlights) ● SAS Hard Drive: 20 models ● SATA Hard Drive: 9 models ● Solid State Drive:1 model ● SAS RAID Card: 3 models ● SAS HBA: 2models	
March 28, 2013	SR1.1	Based on SR1 Compatibility List with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 1 model ● SATA Hard Drive: 1 model	
June 6, 2013	SR1.2	Based on SR1.1 Compatibility List with new added disk drive devices: (blue and orange-color highlights) ● SAS Hard Drive: 5 models ● SATA Hard Drive: 3 models	
July 15, 2013	SR1.3	Based on SR1.2 Compatibility List with new added disk drive devices: (blue and orange-color highlights) ● SATA Hard Drive:4models	

1. SAS Host Adapters

Vendor	Model	BIOS/FW	PCI Interface	External Channels	RAID Function
LSI	Mega RAID SAS 9285	F/W: v1.51	PCle	8 ports	RAID
	Mega RAID SAS 9280	F/W: v1.51	PCle	8 ports	RAID
	SAS 9205	F/W: 15.00.00.00	PCle	8 ports	Non-RAID
	SAS 9200	F/W: 15.00.00.00	PCle	8 ports	Non-RAID
Areca	ARC-1882X ⁽¹⁾	V1.05 / v1.51	PCle	8 ports	RAID
ATTO	ExpressSAS R680	F/W: 3.00	PCle	8 ports	RAID

⁽¹⁾ This model only supports single-controller based JBOD expansion, and scales up to seven single-controller based JBOD enclosures.

- ⚡ 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.
- ⚡ Some listed devices may go EOL. AVL listing does not imply market availability.
- ⚡ Additional AA-Mux adapter is required when use with SATA 3Gb drive, while SATA 6Gb drive requires BlackJack adapter.
- ⚡ Verified all listed SATA drives with 3Gb AA-Mux adapter and 6G BlackJack adapter.
- ⚡ When you use SATA 6Gb/s drive with 3Gb AA-Mux adapter in the disk array system, the drive runs at 3Gb/s speed.

2. SATA Hard Drives

Vendor	Family	Model	Capacity	Firmware	Buffer	Drive Transfer Rate	Form Factor	NCQ/TCQ
HGST	MegaScale 4000	HMS5C4040ALE640	4TB	MPAOA3W0	64MB	6Gb/s	3.5"	NCQ
	Ultrastar 7K4000	HUS724040ALA640	4TB	MFAOA8B0	64MB	6Gb/s	3.5"	NCQ
		HUS724030ALA640	3TB	MFAOA8B0	64MB	6Gb/s	3.5"	NCQ
		HUS724020ALA640	2TB	MFAOA8B0	64MB	6Gb/s	3.5"	NCQ
		HUS724040ALE640	4TB	MJAOA3B0	64MB	6Gb/s	3.5"	NCQ
		HUS724030ALE640	3TB	MJAOA3B0	64MB	6Gb/s	3.5"	NCQ
		HUS724020ALE640	2TB	MJAOA3B0	64MB	6Gb/s	3.5"	NCQ
	Ultrastar 7K3000	HUA723030ALA640	3TB	MKAOA580	64MB	6Gb/s	3.5"	NCQ
				MKAOAA10				
		HUA723020ALA640	2TB	MK7OA5C0	64MB	6Gb/s	3.5"	NCQ
	Ultrastar A7K2000	HUA722010CLA330	1TB	JP4OA3EA	32MB	3Gb/s	3.5"	NCQ
SEAGATE	Constellation ES.3	ST4000NM0033	4TB	0001	128MB	6Gb/s	3.5"	NCQ
		ST3000NM0033	3TB	0001	128MB	6Gb/s	3.5"	NCQ
		ST2000NM0033	2TB	0001	128MB	6Gb/s	3.5"	NCQ
		ST1000NM0033	1TB	0001	128MB	6Gb/s	3.5"	NCQ
	Constellation ES.2	ST33000650NS	3TB	0001	64MB	6Gb/s	3.5"	NCQ

	Constellation ES	ST2000NM0011	2TB	SN02	64MB	6Gb/s	3.5"	NCQ
	Constellation CS	ST3000NC002	3TB	CN01	64MB	6Gb/s	3.5"	NCQ
		ST2000NC001	2TB	CN01	64MB	6Gb/s	3.5"	NCQ
		ST1000NC001	1TB	CN01	64MB	6Gb/s	3.5"	NCQ
Toshiba	MKx002TSKB	MK2002TSKB	2TB	MT2A	64MB	6Gb/s	3.5"	NCQ
WDC	WD RE4	WD2003FYYS	2TB	01.01D02	64MB	6Gb/s	3.5"	NCQ
		WD1003FBYX	1TB	01.01V02	64MB	3Gb/s	3.5"	NCQ
	WD RE	WD2000FYYZ	2TB	01.01K01	64MB	6Gb/s	3.5"	NCQ
		WD4000FYYZ	4TB	01.01K01	64MB	6Gb/s	3.5"	NCQ
		WD3000FYYZ	3TB	01.01K01	64MB	6Gb/s	3.5"	NCQ

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⚡ **BLUE** Models are new additions actual in test to this release.

⚡ **ORANGE** Capacities are assumed to work but were not tested.

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3. SAS Hard Drives

Vendor	Family	Model	Capacity	Firmware	Buffer	Drive Transfer Rate	Form Factor
HGST	Ultrastar 7K3000	HUS723030ALS640	3TB	A222	64MB	6Gb/s	3.5"
				A440			
		HUS723020ALS640	2TB	A222	64MB	6Gb/s	3.5"
				A440			
	Ultrastar 15K600	HUS156060VLS600	600GB	A5D0	64MB	6Gb/s	3.5"
		HUS156045VLS600	450GB	A392	64MB	6Gb/s	3.5"
	Ultrastar C10K900	HUC109090CSS600	900GB	A2D0	64MB	6Gb/s	2.5"
		HUC109060CSS600	600GB	A2D0	64MB	6Gb/s	2.5"
		HUC109045CSS600	450GB	A2D0	64MB	6Gb/s	2.5"
		HUC109030CSS600	300GB	A2D0	64MB	6Gb/s	2.5"
	Ultrastar C10K1200	HUC101212CSS600	1.2TB	A35A	64MB	6Gb/s	2.5"
SEAGATE	Constellation ES.2	ST33000650SS	3TB	0002	64MB	6Gb/s	3.5"
				A003			
				0004			
		ST32000645SS	2TB	0004	64MB	6Gb/s	3.5"
	Constellation ES	ST2000NM0001	2TB	0001	64MB	6Gb/s	3.5"
	Constellation ES.3	ST4000NM0023	4TB	0001	128MB	6Gb/s	3.5"
		ST3000NM0023	3TB	0001	128MB	6Gb/s	3.5"
		ST2000NM0023	2TB	0001	128MB	6Gb/s	3.5"
		ST1000NM0023	1TB	0001	128MB	6Gb/s	3.5"
	Cheetah 15K.7	ST3600057SS	600Gb	0005	64MB	6Gb/s	3.5"
		ST3300657SS	300GB	0006	64MB	6Gb/s	3.5"
	Savvio 10K.7	ST1200MM0007	1.2TB	0001	64MB	6Gb/s	2.5"

TOSHIBA	MG03SCA	MG03SCA300	3TB	1001	64MB	6Gb/s	3.5"
	MKx001TRKB	MK1001TRKB	1TB	1001	16MB	6Gb/s	3.5"
WDC	WD RE	WD4001FYYG	4TB	VR02	32MB	6Gb/s	3.5"
		WD3001FYYG	3TB	VR02	32MB	6Gb/s	3.5"
		WD2001FYYG	2TB	VR02	32MB	6Gb/s	3.5"
		WD1001FYYG	1TB	VR02	32MB	6Gb/s	3.5"
	WD XE	WD9001BKHG	900GB	SR04	32MB	6Gb/s	2.5"

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4. SSD Drives

Vendor	Family	Model	Capacity	Firmware	Type	Drive Transfer Rate	Form Factor	NCQ/TCQ
Intel	SSD 520 series	520 – 240GB	240GB	400i	MLC	6Gb/s	2.5"	NCQ

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