

# VessJBOD™ 1000 Series

 Dual SAS-to-SAS/SATA 3Gb/s Storage Enclosure



## Amazing Lightweight and Space-Saving Architecture

Innovative enclosure design makes the VessJBOD™ 1000 series easy to lift and install into rackmount housings, especially for SMBs who are short of space. As IT data centers face pressing challenges with the obvious growth of digital information, demanding storage requirements with more cooling and floor space. Making an efficient layout deployment is not just reducing square footage in an electrical or computer room, but also saving money from your IT budget.

## Energy Efficiency Means Savings Effectiveness

VessJBOD™ 1000 uses 80 PLUS Certified<sup>1</sup> power supplies. 80 PLUS means an 80% above energy-efficient program in power supply design. 80 PLUS qualified power supplies not only lower power costs and reduce current draw for a significant improvement of power quality, but also come with value-added non-energy benefits such as reductions of heat output, maintenance costs, and total cost of ownership as a better system reliability environment.

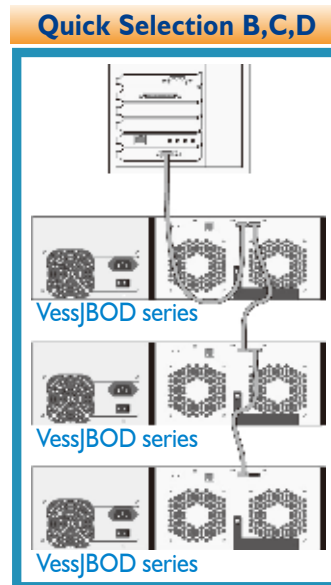
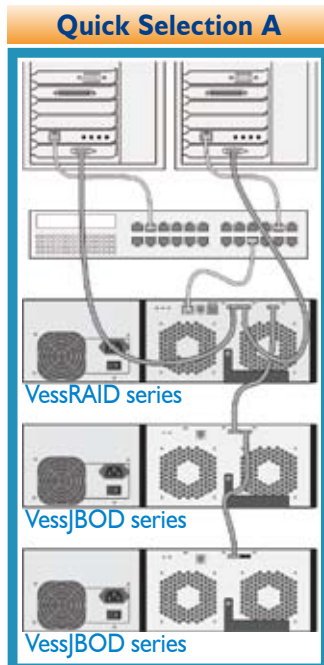
## Your Comprehensive Storage Partner

PROMISE storage solutions comprise various combinations of host bus adapter, Vess system and enclosure series connections. A VessRAID™ storage system can be direct attached with the FastTrak™ TX8668<sup>2</sup> adapter as host channel, and downlinks secondary VessJBOD™ expansion enclosures up to 80TB. A VessJBOD™ enclosure supports IOP based RAID adapters like SuperTrak™ EX8654, SuperTrak™ EX8658, and SuperTrak™ TX8658 as a massive disk storage pool.



## VessJBOD Enclosure Highlights

- ⌘ 16 hot-swappable drive bays in a robust 3U chassis
- ⌘ Supports Serial Attached SCSI (SAS) and SATA drives
- ⌘ Single SAS JBOD I/O module
- ⌘ Single or Dual hot-swap redundant power supply unit with 80PLUS Certified
- ⌘ SES-2 compliant enclosure management
- ⌘ Fully compatible with PROMISE HBAs and RAID subsystems



Quick Selection Guide		
	HBA	System
A	FastTrak TX8668	VessRAID series
B	SuperTrak EX8654	VessJBOD series
C	SuperTrak EX8658	VessJBOD series
D	SuperTrak TX8658	VessJBOD series



<sup>1</sup>Single PSU is 80 PLUS Bronze Certified, Redundant PSUs have 80 PLUS power efficiency

<sup>2</sup>FastTrak TX8668, Low Profile PCIe4 SAS/SATA RAID HBA with 8 external ports will be available in Q2, 2009

## VessJBOD™ 1000 Series Specifications

VessJBOD System	VessJBOD 1740	VessJBOD 1840
<b>JBOD I/O Module Features</b>		
Form Factor	3U	3U
Drive Support	16 Drives (3.5")	16 Drives (3.5")
	SAS(3Gb/s), SATAII(3Gb/s)	
Controller	Single	
Host Channel	Dual, IN/OUT SAS-wide(x4) port over SFF-8088	
<b>Host Options</b>		
Promise RAID HBA	SuperTrak EX8654, SuperTrak EX8658, SuperTrak TX8658	
Promise RAID Storage System	VessRAID 1000 iSCSI/SAS Series	
<b>SAS Features</b>		
Management Function	Easy FRU Design Full SAS domain Topology Management SAS Management Protocol In-band Access to Expander and PHY Statistic Counters and Performance Monitors SES Enclosure Management SCSI SES Command Set over Virtual SSP Device	
<b>System Management</b>		
Supported OS	Windows 2000, XP, 2003, Vista, 2008 RedHat Linux SuSE Linux FreeBSD 7.0	
Management Interfaces	LED Status Indicator In-band SES Enclosure Management CLI via RJ-11 serial port	
Management Protocols	SES over in-band SAS	
<b>System Information</b>		
AC Input	90 ~ 264 VAC, 47 ~ 63Hz	
Current (Maximum)	7A (100V); 3.5A (240V)	8A (100V); 4A (240V)
Power Supply	Single 450W 90-264V auto-ranging w/PFC 80PLUS Bronze Certified	Dual 450W 90-264V auto-ranging w/PFC 80PLUS Power Efficiency Hot swappable and redundant
Power Consumption	235 Watts (w/ SAS drives); 34.7 Watts (w/o drives)	
FAN	80 x 80 x 25.4 mm, N+1 design	
Temperature	5° ~ 40°C (-40° ~ 60°C non operational)	
Relative Humidity	10% to 80% non-condensing	
Dimensions (H x W x D)	131 x 446.2 x 460.5 mm 5.1 x 17.6 x 18.1 in	131 x 446.2 x 460.5 mm 5.1 x 17.6 x 18.1 in
Weight	13.8 kg (30.42 lbs) w/o drives 23.4 kg (51.59 lbs) w/ drives	15.8 kg (34.83 lbs) w/o drives 25.4 kg (56 lbs) w/ drives
Safety/EMI	CE, FCC Class B, VCCI, BSMI, CB, KCC, C-Tick, UL/cUL, TUV	
Base Configuration	VessJBOD 2U/3U Unit w/ Drive Carrier RJ11-to-DB9 Serial Data Cable, Power Cord (Single PSU: 1; Dual PSU: 2) Quick Start Guide, Set of Screws, CD (Product Manual, Firmware Upgrade Tool: QSG)	
<b>Warranty and Option</b>		
Warranty	3 years limited warranty <sup>2</sup>	
Supported Hardware Options	Front Bezel, Sliding Rail, SAS Cable	

<sup>1</sup>Operational Temperature between 5° ~ 35°C if BBU installed

<sup>2</sup>BBU is covered by one year limited warranty

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