PROMISE VTrak Jx30 Series

Robust, high-availability 6G SAS JBOD Storage Expansion Platform with Single or Dual I/O modules

VTrak Jx30 Highlights

- 3U-16 or 4U-24 form factor featuring hot-swappable drive bays in SBB 2.0 package

- Supports 6G and 3G SAS & SATA drives simultaneously

- Dual active/active SAS JBOD I/O modules

- Up to 85% power efficiency

- Up to four 6G mini SAS (4x) ports, two ports per I/O module

- Redundant, hot-swappable Field Replaceable Units (FRUs)

- SES-2 compliant enclosure management

- Compatible with leading SAS & SATA drives, HBAs and RAID controllers

As the demands for capacity expansion of digital media continues to explode, IT infrastructures and its growing complexities have become increasingly diffcult to manage. With no end in sight of this storage boom, IT administrators are faced with fnding a robust storage expansion platform to serve as a building block to provide high-availability, fexibility and energy-effciency in a cost effective package that meets their application demands.

Delivering a reliable enterprise-level storage architecture

The VTrak Jx30 series 6G SAS subsystems deliver a high performance SAS solution with advanced enterprise level reliability and functionality. Delivered in a Storage Bridge Bay (SBB) 2.0 compliant package, the Jx30 series offers the full redundancy that is expected of an enterprise solution. Dual active-active JBOD I/O modules allow for redundant data paths to ensure data availability while dual power supplies and cooling fans are in place to minimize downtime and any disruption to business continuity.

6G SAS Performance

Providing up to 24Gb/s of bandwidth over the external multilane 6G SAS host interface, the VTrak Jx30 series allows storage applications to access their data at blistering speeds. The 6G SAS architecture paves the way for immense available bandwidth to support the food of unstructured data now fowing across networks today. Fully backward compatible with 3G SAS/SATA devices, users have the ability to deploy 3G and 6G SAS/SATA hard drives and solid state devices (SSD) in the Jx30 series.

GreenRAID

PROMISE cares about the environment. VTrak products utilize environmentally friendly production methods and materials as well as a high-effciency design that saves energy. Sporting 80 Plus Bronze Certifed power supplies offering up to 85% power effciency, the VTrak Jx30 series products improve total cost of ownership by conserving power, reducing heat output and improving cooling costs. The internal 6G SAS expander-based architecture also allows for transparent access to each drive, enabling full utilization of the power management features built into modern hard drives.

Service and Support

Every VTrak Jx30 subsystem is backed by the PROMISE 3-Year limited warranty with 24/7 (Americas & EMEA) telephone and email support. In addition to our industry leading warranty, PROMISE offers extended warranty and onsite parts replacement options with service levels with response times as low as 4 hours.

JBOD I/O Module Features	3U/16 Bay	4U/24 Bay
Model # - Single I/O	VTJ630sS	VTj830sS
Model # - Dual I/O	VTJ630sD	VTJ830sD
Drive Support	Up to sixteen 3.5"/2.5" HDDs or SSDs	Up to twenty-four 3.5"/2.5" HDDs or SSDs
	• SAS 7200 rpm: 6 Gbps, 3Gbps • SATA: 6Gbps, 3Gbps and 1.5Gbps • Supports any mix of SAS and SATA drives simultaneously in the same enclosure • For a list of compatible drives, please visit www.promise.com	
External I/O Ports	• Each SBB 2.0 I/O module has two SAS ports using industry standard Mini SAS 4x wide-port-SAS connectors (SFF-8088), one IN and one OUT for cascading JBODs	
SAS Features		
	ANSI T10 SAS 2.0 and 2.1 Compliant	
Expander Management Features	• Self-confguring expander supports full SAS domain topology management • SMP – SAS Management Protocol • In-band access to Expander and PHY information • Statistic counters and performance monitors • SES EM – SES Enclosure Management (ANSI T10 SES 2 Compliant) • SCSI SES command set over virtual SSP device	
System Management		
Management Interfaces	• LED status indicator support for drives, FRU and enclosure environmentals • In-band SES enclosure management alerts user to out of spec operation: thermal condition, voltage condition or component failures, protecting data and hardware • Full subsystem management CLI through out-of-band RS232 serial port	
Enclosure Management Protocols	SES over in-band SAS	
Mechanical Specification		
Voltage	100-240 Vac Auto-Ranging	
Current (Maximum)	15 A @ 110 VAC; 6 A @ 240 VAC	
Power Conversion Efficiency	>80% @ 110V (>20% load), >80% @ 240V (>20% load)	
Temperature Range	Operational: 5° to 40°C Non-Operational: -40° to 60°C	
Humidity	Operational: 10% to 90% (Non-Condensing) Non-Operational: 5% to 95% (Non-Condensing)	
Acoustic Noise Levels	55 dB (Typical) 65 dB (Maximum)	
Shock	Operational: 5G, 11 ms duration Non-Operational: 10G, 11ms duration	
Vibration	Operational: 0.3G, 5 to 500 Hz Non-Operational:: 1G, 5 to 500 Hz	
Safety	CE, FCC Class A, UL/cUL, TUV, BSMI Class A, VCCI Class A, CB, KCC, NOM, GOST-R, IRAM, C-Tick, S-Mark	
Environmental Standards	RoHS, GreenPC, WEEE	
	3U/16 Bay	4U/24 Bay
Power Supply	Dual 580W, 100-240 Vac auto-ranging, 50-60 Hz, dual hot swap and redundant with PFC, N+1 design	Dual 750W, 100-240 Vac auto-ranging, 50-60 Hz, dual hot swap and redundant with PFC, N+1 design
Dimensions (H x W x D)	13.1 x 44.7 x 50.7 cm 5.2 x 17.6 x 19.96 in	17.4 x 44.7 x 50.7 cm 6.9 x 17.6 x 19.96 in
Weight	24 kg / 52.9 lbs (w/o drives)	26 kg / 57.3 lbs (w/o drives)
Warranty and Support		
Warranty	Three year complete system limited warranty with advanced parts replacement; optional extended warranty; onsite parts replacement program	
Support	24/7 e-mail and phone support (English only); 24/7 access to Promise support site-drivers, firmware and compatibility lists	