VTrak J5000 Series
Redundant SAS/SATA JBOD for Big Data
VTrak JBOD Expansion Units for Cloud, Data Centers, Backup, & Archive

Benefits

- Support huge bandwidth with 4, 12 Gb SAS ports per IOM

- 80 PLUS GOLD certified PSUs, huge power efficiency, and Energy Star Ready

- Advanced diagnostics and reporting with persistent error log

- Auto sensing and auto optimizing for cable lengths and types

- Support massive capacity by cascading up to 9 SAS JBOD enclosures

Tech Highlights

- High-performance, highly optimized allowing more than 19 GB/s aggregate transfer rate

- SES 2 enclosure management based on ANSI T10 compliance

- Instantly accessible persistent error logging and HTML formatted service report

- Compatible with leading HBAs and RAID controller

- Work more efficiently with a modular cable-less design

- Customized OEM hardware software options

Affordable Enterprise-level Storage

- Delivers an affordable high-performance SAS solution with advanced enterprise level reliability and functionality.

- Four multipurpose SAS ports (SFF-8644) per controller for connecting upstream or downstream multiple cascaded JBODs for applications requiring huge bandwidth.

- Fully redundant I/O modules, power supplies, and cooling units providing exceptional data availability for any size business environment.

- Cable-less Storage Bridge Bay (SBB) design for Enterprise OEMs.
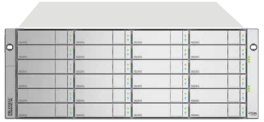
Data Center: Hybrid HDD/SSD Arrays

- Flash arrays enable optimized speed for key enterprise applications that need processing power yet power savings.

- Fully backward compatible with 6 Gb SAS/SATA devices, users have the ability to deploy 3/6/12 Gb SAS/SATA hard drives and SSDs in the J5000 Series.

- Efficient power supplies provide up to 90% power efficiency that improves TCO by conserving power, reducing heat output and improving cooling costs.

- Internal 12 Gb 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.

Backup

- As consumers and businesses become more mobile, the need for data access, retrieval, and distribution anywhere at any time means that data must be protected.

- Data centers, hyperscale computing, and high-performance computing not only require performance and reliability, but flexibility and cost-efficiency for tiered storage management. Nearline SAS/SATA JBOD expansion units provide the versatility and scale for such demands.

VTrak J5000 Specifications

	2U/24 Bay	2U/12 Bay	3U/16 Bay	4U/24 Bay
Model and Number	J5320s	J5300s	J5600s	J5800s
Drive Support	Up to 24 2.5" drives	Up to 12 3.5" drives	Up to 16 3.5" drives	Up to 24 3.5" drives
	• 3/6/12 Gb SAS, 3/6 Gb SATA HDD and SSD • Supports any mix of SAS and SATA drives simultaneously in the same enclosure			
External I/O Ports	Each SBB2.0 I/O Module has four SAS ports using industrial standard Mini SAS HD connectors (SFF-8644), one port supports Wake-on SAS feature for upstream and other ports can be either upstream or downstream for cascading additional JBODs			

SAS Features

Expander Management Features	• Self--configuring expander supports full SAS domain topology management • T-10 based zoning support • End Device Frame Buffering (aggregate bandwidth over multiple slow devices e.g. 6G and 3G) • Smart cable support to detect cable type and tune PHY automatically for maximum reliability • 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 • Wake-on-SAS support, Wake-on-LAN support

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 Protocol and Management	ANSI T10 SES 2, SMP (SES over in-band SAS) Persistence Error Logging with NVRAM, Extensive Service Report File, VPD (Vital Product Data) on Chassis and FRUs

Mechanical Specifications

Voltage	100--240 Vac Auto--Ranging
Current (Maximum)	9A @ 100 Vac; 4A @ 240 Vac
Power Conversion Efficiency	>80% @ 110V (>20% load), >80% @ 240V (>20% load) Temperature Range
Temperature Range	Operational: 5° to 40°C, Non-OperaJonal: -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 and Emission Certification	EMC Class A: CE, FCC, VCCI, BSMI, RCM and KC Safety: IEEE CB, UL/cUL and TUV
Environmental Standards	RoHS, GreenPC, WEEE
Power Supply	Efficient 80PLUS GOLD Certified redundant PSU
Dimensions (H x W x D)	88mm x 446.7mm x 420mm (3.5" x 17.6" x 16.5") / 88mm x 446.7mm x 507mm (3.5" x 17.6" x 19.96") / 131mm x 446.7mm x 507mm (5.2" x 17.6" x 19.96") / 174.4mm x 446.7mm x 507mm (6.87" x 17.6" x 19.96")
Weight	13.8Kg(30.4lbs) w/o drives / 19.2Kg (43.3 lbs) w/ drives · 14.8Kg(32.6lbs) w/o drives / 24.8Kg (54.7 lbs) w/ drives · 25Kg(56 lbs) w/o drives / 38.3Kg (84 lbs) w/ drives · 29.6Kg(64 lbs) w/o drives / 49.6Kg (108 lbs) w/ drives

Warranty and Support

Warranty	3-year full system limited warranty, optional extended warranty, onsite parts replacement program
Support	24/7 e-mail and phone support, 24/7 access to PROMISE site-drives, firmware, and compatibility list

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