

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 difficult to manage. With no end in sight of this storage boom, IT administrators are faced with finding a robust storage expansion platform to serve as a building block to provide high-availability, flexibility and energy-efficiency 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 flood of unstructured data now flowing 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-efficiency design that saves energy. Sporting 80 Plus Bronze Certified power supplies offering up to 85% power efficiency, 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.

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VTrak

**JBOD I/O Module Features**

3U/16 Bay

4U/24 Bay

Model # - Single I/O
Model # - Dual I/O

VTJ630sS
VTJ630sD

VTJ830sS
VTJ830sD

Drive Support

Up to sixteen 3.5"/2.5" HDDs or SSDs

Up to twenty-four 3.5"/2.5" HDDs or SSDs

- SATA: 6Gbps, 3Gbps and 1.5Gbps
- 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 [per controller]

- 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-configuring 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
Current [Maximum]
Power Conversion Efficiency
Temperature Range

100-240 Vac Auto-Ranging
15 A @ 110 VAC; 6 A @ 240 VAC
>80% @ 110V [>20% load], >80% @ 240V [>20% load]
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

Power Supply

3U/16 Bay

Dual 580W, 100-240 Vac auto-ranging, 50-60 Hz,
dual hot swap and redundant with PFC, N+1 design

4U/24 Bay

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

17.4 x 44.7 x 50.7 cm

Weight

5.2 x 17.6 x 19.96 in
24 kg / 52.9 lbs [w/o drives]

6.9 x 17.6 x 19.96 in
26 kg / 57.3 lbs [w/o drives]

Warranty and Support

Warranty

Three year complete system limited warranty with advanced parts replacement; optional extended

Support

warranty; onsite parts replacement program - PROMISE Service Plus [optional in some regions]

24/7 e-mail and phone support [English only]; 24/7 access to Promise support site-drivers, firmware
and compatibility lists

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.