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

<table>
<thead>
<tr>
<th>Model and Number</th>
<th>2U/24 Bay</th>
<th>2U/12 Bay</th>
<th>3U/16 Bay</th>
<th>4U/24 Bay</th>
</tr>
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<tbody>
<tr>
<td>J5320s</td>
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<td>J5300s</td>
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<td>J5800s</td>
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</tbody>
</table>

- **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**
  - 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 environmental
  - 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°C to 40°C, Non-Operational: -40°C 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")
  - **Weight**: 13.8Kg (30.4lbs) w/o drives, 19.2Kg (43.3lbs) w/ drives
  - **Weight**: 14.8Kg (32.6lbs) w/o drives, 24.8Kg (54.7lbs) w/ drives
  - **Weight**: 25Kg (56 lbs) w/o drives, 38.3Kg (84 lbs) w/ drives
  - **Weight**: 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