

# Adaptec® SANbloc S50 JBOD



Storage with the right performance, reliability and price

The Adaptec SANbloc S50 JBOD is the simplest way to integrate the performance, reliability, and cost-effectiveness of Serial Attached SCSI (SAS) into your storage strategy. Whether you are creating or scaling your storage solution, the SANbloc S50 enables you to scale from 36GB to multiple terabytes of data capacity. Mix and match low-cost Serial ATA (SATA) and high-performance SAS drives to achieve the right balance of performance and cost. An easy upgrade path supports increased capacity and performance.

### Blazing Throughput

SANbloc S50 is perfect for data- and transaction-intensive applications. Dual SAS host connections transfer terabytes of data at speeds up to 1200MB/s each, for an aggregate bandwidth of 2400MB/s.

### Create the System You Want – Tailor a Solution to Your Needs

With the SANbloc S50, you can customize the system for your needs. Configure it to meet high-performance or low-cost requirements -- or even both at the same time. Adaptec's flexible architecture provides datacenter choice like never before. Standardize on the SANbloc S50 JBOD, and you can choose between high-performance disks built on trusted SCSI architecture and lower-cost SATA disks for non-critical data. Or if you can't decide, Adaptec will enable you use them both in a single system that seamlessly supports both SAS and SATA disk drives. Adaptec gives you unparalleled freedom to mix and match these technologies and fine tune system performance, reliability, and price to your needs.

### Room for All Your Data

Twelve drive bays provide up to 6TB of SATA storage for non-critical data or up to 3.6TB of high-performance SAS primary data storage. And they're built for your future; Adaptec gives you peace of mind by rapidly qualifying, testing, and supporting higher-density, higher-performance disk drives as they become available.

### True Reliability and Fault Tolerance

Hot-swappable drives and redundant, hot-swappable power and cooling are standard with the SANbloc S50. Plus, each disk drive has its own dedicated 3Gb SAS channel and point-to-point connection. This means that unlike traditional SCSI where all your drives were connected on a common bus and the failure of any drive could hang the entire bus, now a drive failure is isolated to that drive, without spreading to any other connections.

### How's Your System Right Now?

Keep an eye on the real-time health of your system. Adaptec Advanced Enclosure Diagnostics (AAED) continually monitors every component – power supplies, fans, disk drives, controller – and shows you the status on a visual display. Each Adaptec disk drive module also displays drive status and activity level with LEDs.

### Universal Snap Server Expansion

The SANbloc S50 JBOD provides easy scalability for the Snap Server 18000, 4500, 550, and 520. With the Instant Capacity Expansion (I.C.E.) feature built into GuardianOS, the new capacity is instantly available, without disrupting users or applications.

### Product Highlights

- 2400MB/s bandwidth
- Mix and match SAS and SATA drives to achieve the right performance, reliability, and price
- Meet your growing data demands with 6TB of SATA storage or 3.6TB of SAS storage
- Point-to-point connectivity isolates drive failures, increasing reliability, and fault tolerance and improves performance
- Support increased capacity needs by "daisy-chaining" up to 7 JBOD systems together
- Adaptec protection and assistance – Adaptec is a phone call away with free 90-day telephone support

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## S50 JBOD Specifications

<p><b>Host Interface</b></p> <ul style="list-style-type: none"> <li>• One SAS I/O module supports two SAS connections</li> <li>• SAS connections can be used for host connections or as a combination of host connection and expansion</li> <li>• Each SAS connection supports up to 1,200MB/s</li> </ul> <p><b>Disk Drive Interface</b></p> <p>Twelve independent 300MB/s point-to-point connections to each SAS or SATA disk drive</p> <p><b>Measured Performance</b></p> <p>Up to 750MB/s (sustained reads)</p> <p><b>I/O Module Features</b></p> <ul style="list-style-type: none"> <li>• Single Controller</li> <li>• SAS and SATA support</li> <li>• Auto-negotiate speeds</li> <li>• Inband and out-of-band management</li> <li>• SMP and SSP command/protocol support</li> <li>• Redundant cable support</li> </ul> <p><b>Capacity</b></p> <p>SATA: Up to 12 drives (6TB) capacity per 2U enclosure</p> <p>SAS: Up to 12 drives (3.6TB) capacity per 2U enclosure</p> <p><b>Maximum SAS Cable Length</b></p> <p>Up to 3m</p> <p>“Daisy-chain” up to 7 JBOD systems together to support increased capacity needs</p>	<p><b>Redundant, Hot-Swappable Components</b></p> <ul style="list-style-type: none"> <li>• Two advanced power and cooling modules (APC)</li> <li>• Two independent AC power inlets</li> <li>• Up to 12 drives</li> <li>• No active components on data path</li> </ul> <p><b>Rackmount Enclosure Dimensions</b></p> <p>3.5in H x 17.6in W x 19.5in D (8.9cm H x 44.7cm W x 49.53cm D)</p> <p>Weight with drives: 60 lbs (27 kg) max</p> <p><b>Warranty</b></p> <p>3 years systems 3 years disk drives</p> <p><b>Monitoring</b></p> <p>Temperature, advanced power and cooling modules including fan speed control, disk drives, and I/O module, as well as error rates and quality of service on each SAS connection</p> <p><b>Disk Drives</b></p> <p>Capacity: Up to 500GB</p> <p>Rotational velocity: 7200 RPM, 10K RPM, 15K RPM</p> <p>Interface: 3Gb SAS; 3Gb/1.5Gb SATA II</p> <p>Form factor: 3.5in. form factor, 1.0in. height</p> <p>Supported disk drives: Only Snap Server disk drives are supported</p>	<p><b>AC Power</b></p> <p>Input voltage: Autoranging, 85-264 VAC</p> <p>Input frequency: 47-63 Hz</p> <p>Power factor correction: Per EN61000-3-2</p> <p>Input current: 100-240 VAC @ 4-2.5 A</p> <p>Output power: 491 W peak, 430 W average</p> <p><b>Operating Environment</b></p> <p>Temperature: 0° to 40° C</p> <p>Temperature gradient: 20° C per hour</p> <p>Relative humidity: 5 to 95 percent (non-condensing)</p> <p>Altitude: -200 to 10,000ft</p> <p>Shock: 5G @ 11ms, 1/2 sine wave pulse</p> <p>Vibration: 0.2G @ 5Hz to 350Hz</p> <p><b>Electromagnetic Emissions Standards</b></p> <p>CE Mark, EN55022 Class A, EN61000 Class A, FCC Class A, Canadian DOC Class A, VCCI Class A</p> <p><b>Safety Standards</b></p> <p>UL 1950, CSA 22.2-950, EN 60950</p> <p><b>Quality Standards</b></p> <p>Manufactured under an ISO 9002 registered quality system</p> <p><b>Trusted SAS Solution</b></p> <p>The SANbloc S50 has undergone rigorous qualification with SAS HBAs, initiators, and RAID adapters from leading manufacturers. Please contact your sales representative for the latest qualification information.</p>
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