

# Adaptec® SC4100 SCSI JBOD



## High performance Ultra320 SCSI JBOD solution

The Adaptec SC4100 SCSI JBOD is a flexible, high performance, cost-effective Ultra320 SCSI JBOD storage solution. Based on a modular building block design, the enclosure offers investment protection and is easy to set up and manage. The SC4100 fully implements the Ultra320 SCSI feature set, making it the ideal solution for DAS topologies with host based RAID. This functionality can be tailored to provide superior performance for high bandwidth and I/O intensive applications.

### SCSI Reliability and Performance

The Adaptec SC4100 offers increased performance, flexibility, and reliability while minimizing the risk of migrating to a new technology. The Adaptec SC4100 delivers transfer rates of up to 320 MB/s per bus, and incorporates a number of additional features to ensure data integrity, improve bus utilization, and increase speeds. Incorporating PCI based RAID into the solution offers an additional layer of reliability and delivers increased transfer rates.

### Density and Investment Protection

Each system supports up to 12 drives or 36TB in a dense 2U form factor (using 300GB drives). The Adaptec SC4100 incorporates a passive midplane and features environmental monitoring, hot-swappable and redundant power and cooling modules with dual inputs and disk drives, eliminating any single point of failure. The SC4100 will support 640 MB/s aggregate bandwidth in split bus mode (the default setting).

The system is downward compatible to Ultra2 SCSI. Enclosure status is available in-band (SES or SAF-TE). Visual and audible alarms and temperature monitoring provide timely alert of potential problems, facilitating pre-emptive intervention.

### Innovative Modular Architecture

The Adaptec SC4100 is based on the Adaptec advanced Flexible Storage Architecture (FSA). A modular, state-of-the-art design, FSA enables users to optimize storage solutions quickly and economically to meet changing application requirements by adding component “building blocks.” The result is a universal solution for enterprises seeking flexible storage systems that address current and future needs, as well as unexpected changes.

### Comprehensive Storage Management

Designed for Adaptec JBOD storage systems, Adaptec Storage Examiner is an easy-to-use GUI-based tool that allows administrators to monitor subsystem performance, capacity, and health, and to download the latest firmware revisions.

### Worldwide Service and Interoperability Testing

Adaptec helps ensure the performance and availability of your storage with a flexible support program – from telephone assistance to on-site maintenance – tailored to meet your needs. Adaptec works closely with industry leaders, testing various technologies and products to ensure seamless interoperability.

## Product Highlights

Single or dual bus configurations with 640 MB/s aggregate bandwidth in dual bus mode

Redundant, hot-swappable power and cooling for high availability

Intuitive, comprehensive management with Adaptec Storage Examiner software

Supports industry leading server host based U320 RAID controllers and host bus adapters

Easy to install, configure, and maintain

Industry-standard 19-inch rackmount or pedestal configuration

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## Technical Specifications (Ordering Part Number: SC4100EDR-AC)

<p><b>System</b></p> <p><b>Host interface</b> Two Ultra320 SCSI ports</p> <p><b>Enclosure Services Module</b> Provides SCSI bus input and output connections and SCSI bus termination</p> <p><b>Bus Configurations</b></p> <ul style="list-style-type: none"> <li>The default configuration is dual bus of six drives each</li> <li>Joiner module can be used to join the buses, providing a single SCSI bus of 12 drives</li> </ul> <p><b>Disk drive interface</b> 12 Ultra320 SCSI disk drives on a single bus or two buses of six drives</p> <p><b>Measured performance</b> Up to 370MB/s (sustained reads), 200 MB/s (sustained writes), 50,000 I/Os</p> <p><b>Capacity</b> Up to 12 drives (3.6TB) capacity per 2U enclosure (with 300GB drives)</p> <p><b>Redundant, hot-swappable components</b></p> <ul style="list-style-type: none"> <li>Two independent AC power inlets</li> <li>Two advanced advanced power and cooling modules (APC)</li> <li>Enclosure services module (hot-swappable, not redundant)</li> <li>Up to 12 drives</li> <li>No active components on data path</li> </ul>	<p><b>Maximum cable lengths</b> Up to 5 meters per bus</p> <p><b>Pedestal cabinet dimensions</b> 19.5in H x 4.6in W x 21.5in D (49.53cm H x 11.7cm W x 54.6cm D) Weight with drives: 60 lbs (27 kg) max</p> <p><b>Rackmount enclosure dimensions</b> 3.5in H x 17.6in W x 19.5in D (8.9cm H x 44.7cm W x 49.53cm D) Weight with drives: 60 lbs (27 kg) max</p> <p><b>3 year system warranty</b></p> <p><b>Monitoring</b> Temperature, advanced power and cooling modules including fan speed control, disk drives, and I/O module(s)</p> <p><b>Failure notification</b> SES and SAF-TE, LEDs, audible alarms, FRU (field replaceable unit) revision and serial number reporting, events reported to Adaptec Storage Examiner software</p> <p><b>Disk Drives</b> <b>Capacity:</b> Up to 300GB/10K, 146GB/15K <b>Rotational velocity:</b> 10K/15K RPM <b>Interface:</b> Ultra320 SCSI (compatible with Ultra2 SCSI) <b>3.5-inch form factor, 1.0-inch height</b></p>	<p><b>AC Power</b> <b>Input voltage:</b> Autoranging, 85-264 VAC <b>Input frequency:</b> 47-63Hz <b>Power factor correction:</b> Per EN61000-3-2 <b>Input current:</b> 100-240 VAC @ 4-2.5 A <b>Output power:</b> 491 W peak, 430 W average</p> <p><b>Operating Environment</b> <b>Temperature:</b> 0° to 40° C <b>Temperature gradient:</b> 20° C per hour <b>Relative humidity:</b> 5 to 95 percent (non-condensing) <b>Altitude:</b> -200 to 10,000 feet <b>Shock:</b> 5G @ 11ms, 1/2 sine wave pulse <b>Vibration:</b> 0.2G @ 5Hz to 350Hz</p> <p><b>Electromagnetic emissions standards</b> CE Mark, EN55022 Class A, EN61000 Class A, FCC Class A, Canadian DOC Class A, VCCI Class A</p> <p><b>Safety standards</b> UL 1950, CSA 22.2-950, EN 60950</p> <p><b>Quality standards</b> Manufactured under an ISO 9002 registered quality system</p> <p><b>Software</b> <b>Adaptec Storage Examiner</b> Local or remote management, monitoring, and configuration with host platform support for Microsoft® Windows®, Sun Solaris SPARC, and Linux</p>
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