

Flexible, Reliable and
Cost-Effective External
Storage Expansion for a
Wide Range of
Storage Environments

KEY FEATURES

Modular, scalable
architecture

2U and 3U, half-depth
and standard-depth
form factors

Up to 24 hot-swap 2.5"
SAS, or SATA II drives,
or SSDs

Up to 16 hot-swap 3.5"
SAS, or SATA II drives

Exceptional density
with up to 48 hard
drives in a 2U rack

AC, DC, or
redundant AC power

Front-facing ports and clean
cabling reduce service
time up to 75%

Ideal for bulk-tier needs
with high-capacity SATA II
drives and for database
requirements with SAS
drives and SSDs

Ships fully cabled and
racked with half-depth
rack-mount servers for
quick, easy, plug-and-play
deployment

SGI® OmniStor External Storage Expansion Series



OmniStor external storage expansion systems are perfect storage complements to SGI's rack-mount servers. Together, they provide a complete, flexible storage solution that supports both cost-sensitive bulk-tier and performance-sensitive database environments. OmniStor products are ideal for IT environments where both space and power are limited. High-efficiency AC, DC and redundant AC power technologies help to significantly reduce overall power consumption.

Flexible Configurations

OmniStor customers can choose between 2.5" and 3.5" hard drives, half-depth and standard-depth form factors and AC and DC power which means that SGI's Build-to-Order model is now available for its external storage products as well as its server lines.

OmniStor supports SAS and SATA II drives as well as SSDs. Flexible drive options means that OmniStor delivers superior performance with industry leading densities. It is well suited for cost-optimized, bulk-tier repositories for massive amounts of data as well as performance-oriented solutions for mid-tier database environments. Impressive price/performance value, coupled with a common infrastructure leveraged across multiple application environments, results in an exceptionally low Total Cost of Ownership (TCO).

High Capacity Density

Each OmniStor SE3016 adds 16 hot-swappable 3" SAS/SATA drives in a compact, efficient, 3U half-depth form factor. Using SGI's patented

back-to-back mounting techniques, it is possible to achieve densities of 32 drives per 3U of rack space and 432TB of storage per cabinet with 1TB drives. Designed to complement SGI's rack-mount servers equipped with RAID cards, each SE3016 has two external mini-SAS ports for connectivity—one port to connect to the server-housed SAS RAID or HBA card (or upstream to another SE3016) and the second to cascade additional SE3016 units.

High Performance Density

Each OmniStor SE2024 adds 24 hot-swappable 2.5" SAS/SATA/SSD drives in a compact, efficient, 2U half-depth form factor. Forty eight small form factor drives per 3.5U of rack space, mounted back-to-back, enable servers to rapidly scale to meet challenging I/O requirements—for example those found in database and media streaming environments.

Storage Management

Enclosure management services are provided inline through the SAS interconnect via the server's RAID card software. In addition to performing RAID configuration and monitoring, administrators can monitor OmniStor chassis temperature and fan health. Time-saving Roamer™ remote management technology provides effortless local or remote control with total lights-out management. Ports, connectors and cables are front-facing for rapid service and maintenance.



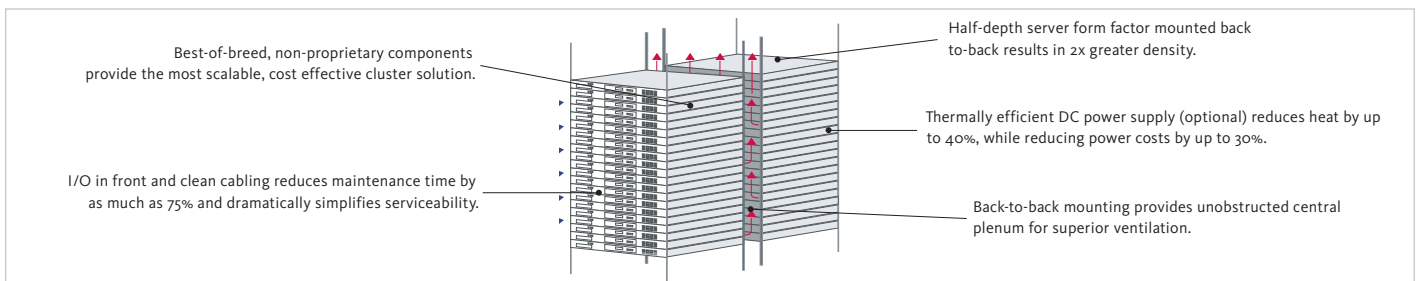
SGL OmniStor External Storage Expansion Series

Configuration Specifications

www.sgi.com/omnistor

Model Number	SE2024	SE2124	SE3016	SE3116
Chassis Profile	2U half-depth	2U standard-depth	3U half-depth	3U standard-depth
Hard Disk Drives	Twenty-four 2.5" SAS or SATA II hot-swap drives, or SSDs	Twenty-four 2.5" SAS or SATA II hot-swap drives, or SSDs	Sixteen 3.5" SAS or SATA II hot-swap drives	Sixteen 3.5" SAS or SATA II hot-swap drives
Max Capacity	7.2TB (with 300GB SATA II or SAS drives)	7.2TB (with 300GB SATA II or SAS drives)	16TB (with 1TB SATA II drives)	16TB (with 1TB SATA II drives)
Host Interface	Two external SFF-8088 mini-SAS interfaces (front cabled)	Two external SFF-8088 mini-SAS interfaces (rear cabled)	Two external SFF-8088 mini-SAS interfaces (front cabled)	Two external SFF-8088 mini-SAS interfaces (rear cabled)
Host Interface Bandwidth	12 Gb	12 Gb	12 Gb	12 Gb
OmniStor Systems per Host Connection	Three (six per server RAID card with two external interfaces)	Three (six per server RAID card with two external interfaces)	Three (six per server RAID card with two external interfaces)	Three (six per server RAID card with two external interfaces)
RAID Support & RAID Levels	Determined and managed by server-based RAID card	Determined and managed by server-based RAID card	Determined and managed by server-based RAID card	Determined and managed by server-based RAID card
Enclosure Management Support	N/A	N/A	Roamer™ KVM or Serial remote management card supports power control, temperature monitoring and SAS firmware updates. LCD can be scripted to show service messages.	Roamer™ KVM or Serial remote management card supports power control, temperature monitoring and SAS firmware updates. LCD can be scripted to show service messages.
Power Supply	Auto-switching 100-240 VAC (50-60 Hz) or -48 VDC	1+1 redundant auto-switching 100-240 VAC (50-60Hz)	Auto-switching 100-240 VAC (50-60Hz) or -48 VDC	1+1 redundant auto-switching 100-240 VAC (50-60Hz)
Chassis Mount	SGL cabinets with back-to-back mounting for double density; standard 19" rack compatible	Standard 19" rack compatible	SGL cabinets with back-to-back mounting for double density; standard 19" rack compatible	Standard 19" rack compatible rail mount
Dimensions (HxWxD)	3.5" x 17" x 15.5"	3.4" x 17" x 16.7"	5.25" x 17" x 15.5"	5.25" x 17.6" x 27.3"

The SGI Difference



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