



• Ultra Dense and Cost Effective

Storage requirements are growing exponentially, and today's business environment requires simple, easy ways to dramatically grow online disk capacity. To keep pace, storage architects need a scalable portfolio of interchangeable "building blocks" that can align features, capacity and performance to meet the fast-changing demands of today's business. To address this need, **storageFOUNDRY** introduces

the **6030s** modular storage enclosure, the smart approach to building scale-out/ scale-up architectures ready for the next generation of Software-defined Systems and data centers.

Housing 60 hot-swappable 3.5" SAS or SATA HDDs and SSDs in a 4U enclosure, the storageFOUNDRY 6030s is one of the densest storage enclosures available with 15 HDDs/U.

In addition to functioning as a standalone external DAS JBOD for standard SAS host connect, the 6030s can be zoned to up to four different DAS hosts. Multiple 6030s enclosures can be daisy-chained together for deeper storage pools to keep pace with data growth making it the perfect expansion companion to the

• Maximum Throughput

The storageFOUNDRY 6030s offers best-in-class performance supporting 6Gb/sec SAS 2.0 host and SAS/SATA HDD connections, space saving density, "green" energy efficiency, and 24-7 high availability redundancies of key components. With 4 SAS connectors per IO module, the 6030s can support 19,200 MB/sec bandwidth. SAS 2.0 zoning support enables a variety of configurations including high availability, disaster recovery, multi-server fan-out, and maximum performance.

• Robust System Management

The 6030s includes standard SES-3.0 interface for access to enclosure management services that provide enterprise level reliability, availability and serviceability. Users are able to leverage fault diagnosis, resolution capabilities, persistent error logging, and monitoring over in-band interface and via LEDs.

• Energy Efficiency

The 6030s minimizes energy use through new "green" technology advancements including: individual drive power control, advanced adaptive cooling technology, and 80 PLUS® Gold Certified PSUs that are 92% efficient at 50% load.

- **Ultra-Dense 4U-60 storage enclosure:** Providing 3.6PB in a single datacenter rack
- **Full-featured robust** 6Gb/sec high performance SAS 2.0 host support up to 9,600MB/sec bandwidth per controller
- **High Availability standard:** (optional single I/O controller available)
- **Multiple Drive** partitioning/split-bus zoning modes
- **Flexibility** to choose SAS or SATA, HDD or SSD drives to achieve the right performance, reliability and price
- **Robust System Management**
- **Certified 80 Plus Gold:** For efficient power conversion
- **Enterprise reliability,** serviceability, and support

General Information

Base Model	6030s-60x0	4u 3.5" 60-bay No drives
Drive Models	6030s-60x4	240TB (4TB SAS drives)
	6030s-60x5	300TB (5TB SATA drives)
	6030s-60x6	360TB (6TB SAS drives)
Controller	Dual SAS 2.0 controllers per enclosure (Single controller available upon request)	
Host Interfaces per CTRL	Four SFF-8088 6Gb/sec SAS 2.0 connections	
Status Reporting	SCSI Enclosure Services (SES-3)	
Maximum System Configuration	Number of drives will be limited by the specific SAS HBA or SAS RAID HBA.	
Drive Partitioning/ Split-bus Zoning	Single controller module can be zoned as 1x60, 2x30 or 4x15 via firmware control Dual controller modules can be set so that 30 HDDs are mutually exclusive to the first controller and the other 30 HDDs are	

Disk Drives

Drive Types Supported	3.5" Dual ported 6Gb/s SSD, SAS and SATA modules
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Dimensions and Operations: typical

Height	175 mm / 6.89 in.
Width	4420.6 mm / 16.56 in.
Depth	891.5 mm / 35.1 in.
Net Weight	47.7 kg (105 lbs)
(with drives)	96.8 kg (213 lbs)
Add for packaging	10 kg (22 lbs)
Operational Altitude	-60 to 3,000 m (-200 to 10,000 ft.)
Non-Operational Alt.	-60 to 12,192 m (-200 to 40,000 ft.)
Voltage	90-264V AC
Frequency	47-63Hz
Input Current	14.5A RMS max @ 110VAC
Continuous DC output	1200W
Power Conversion Efficiency	20% load @ 115V ~ 87% 50% load @ 115V ~ 90% 20% load @ 230V ~ 88% 50% load @ 230V ~ 92%
Temperature Range	5° to 35°C
Humidity	100% to 80% (non-condensing)

System Availability

Hot Swap Components	Disk drives, power and cooling modules, and I/O controllers.
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Shock and Vibration: typical

Operational Shock	5g 11ms 1/2 Sine wave pulse
Operational Vibration	Random 0.15g RMS
Non-op Shock	10g 11ms 1/2 Sine wave pulse
Non-op Vibration	Random 0.75g
Relocation Vibration	Swept Sine 0.5g 5-500Hz
Acoustics	Bels at normal operation tested to ISO7779

Emissions and Immunity Standards

EMC	EN55022 : 2006 + A1 :2007
Safety	IES/EN/UL/CSA 60950-1, 2nd Edition EN55024-IT product family standard for Immunity Meets the requirements of IECs-003

Warranty

Enclosure with drives	3 years. Please contact storageFOUNDRY for detailed warranty information and Federal Warranty Accommodations.
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Quality Standards

storageFOUNDRY 6030s manufactured under an ISO 9002 registered quality system. RoHS and WEEE compliant.



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