

Rack-optimized 1U storage with faster data access and increased scalability and versatility — at no extra cost.

Sun StorEdge™ S1 Array

HIGHLIGHTS

- Delivers a variety of key enhancements to the Netra™ st D130 array, including:
 - **160-MB/sec. Ultra3 SCSI low voltage differential**
 - **Daisy chain up to four devices**
 - **12-meter cabling**
- 1U form factor and variety of rack-mounting options enable system to fit 19-inch, 23-inch, 24-inch, and 600-mm racks
- System takes in air from the front and exhausts to the back, for quicker, more efficient cooling
- Increased manageability with Lights-Out Management and Storage Subsystem Manager software, which allows remote monitoring of enclosure, drives, and temperature
- Front and back LEDs and front-accessible hot-swap disks enhance serviceability
- AC and DC power options and ruggedized, NEBS Level-3 packaging are ideal for deployment in a variety of powering environments and under less than ideal environmental conditions
- Compatible with a wide variety of Sun servers including Sun Netra; backward compatible with the Netra st D130 array
- Ideal incremental storage solution for all three tiers of an Internet architecture

The Sun StorEdge™ S1 array is an ideal solution for rack-intensive environments where fast data transfers, efficient space utilization, and compatibility with a wide range of Sun™ servers are critical concerns. The device delivers excellent performance — up to 160-MB/sec. throughput — while its 1U form factor, compact footprint, and variety of rack options allow it to fit neatly into standard rack environments. The Sun StorEdge S1 array works with a variety of Sun Netra™ and general-purpose workgroup and enterprise servers. And together with Sun's other rack-optimized 1U servers and PCI system expander, the Sun StorEdge S1 array supports modular computing, helping companies to balance performance, storage capacity, and PCI connectivity — affordably.

A rack-optimized 1U storage array with exceptional versatility.



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SUN STORAGE S1 ARRAY SPECIFICATIONS

ARCHITECTURE

Carrier features	Supports 19-in., 23-in., 24-in., and 600-mm rack configurations, with fixed-rail options Flame-resistant, fireproof metal enclosure NEBS Level-3 Certified
Status and sensors	Device and drive status information accessible from host server Front and rear LEDs for system and drive status
LVD/SE (160/40 MB/s)	Standard ANSI (X3.131-1994, X3.277-1996, SPI-3X3.252)
SCSI	Maximum cable length 12 meters for LVD and 3 meters for SE SCSI Direct connect to host on-board SCSI port with no host adapter

DISK DRIVES

Form factor	3.5-inch low-profile, LVD
Supported drives	18.2 GB or 36.4 GB, 10,000 rpm

SOFTWARE

Operating system	Solaris™ 2.6 Operating Environment and higher Sun™ Cluster 3.0 (with Netra T1 AC200/DC200, Netra E1 PCI System Extender, and Sun StorEdge S1 array) Remote monitoring through Storage Subsystem Manager software
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SUPPORTED PLATFORMS

Servers	Netra T1 AC200/DC200 Netra t 1120/1125 Netra ct 1400/1405 Netra ct 400/800 Sun Enterprise™ 220R/420R Sun Fire™ 280R Sun Fire 15K
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ENVIRONMENT

Power	AC or DC
AC power	100–240 V AC, single-phase (47–63 Hz)
DC power	-48/-60 V DC
Input current	Less than 2 A at 100 V AC (150 W) Less than 4 A at -40 V DC (150 W)
Operating temperature	5° C to 40° C (41° F to 104° F), 5% to 85% relative humidity, noncondensing (not to exceed 0.024 kg water/kg of dry air)
Short-term operating temperature	-5° C to 55° C (23° F to 131° F), 5% to 90% relative humidity, noncondensing (not to exceed 0.024 kg water/kg of dry air)
Nonoperating temperature	-40° C to 70° C (-40° F to 158° F), 90% maximum relative humidity, noncondensing
Acoustic noise	Less than 60 dBa (GR-63-CORE Test Method)
Seismic	Meets GR-63-CORE requirements for earthquake risk zone 4
Heat output	150 W, 512 BTUs/hr

REGULATIONS

Meets or exceeds the following requirements:	
Safety	UL/CSA-60950, EN60950, IEC950 CB Scheme with all country deviations
RFI/EMC	EN55022/CISPR22 Class B, FCC CFR47 Part 15 Class B, EN61000-3-2, EN61000-3-3, EN 300 386 V1.2.1 (2000-03)—Telecom Center Only
Immunity	EN55024, EN 300 386 V1.2.1 (2000-03)—Telecom Center Only
Telcordia NEBS	GR-63-CORE, GR-1089-CORE, SR-3580 Level-3
Regulatory markings	CE, FCC, ICES-003, C-tick, VCCI, GOST-R, BSMI, EK, UL/cUL, TUV-GS,
Telcordia	NEBS Level-3

KEY APPLICATIONS

Tier 1	Web caching Video streaming Domain name service Incremental storage for horizontal scaling Firewall Web hosting Authentication
Tier 2	Simple boot device Incremental storage for application servers Mail/messaging Network management Softswitch Billing
Tier 3	Simple redundant boot device

DIMENSIONS AND WEIGHT

Height	44 mm (1.73 in.)
Width	436 mm (17.16 in.)
Length	450 mm (17.71 in.)
Weight (with drives)	8.8 kg (19.4 lb.)



WORKGROUP AND ENTERPRISE STORAGE SOLUTIONS



Sun StorEdge MultiPack-FC Array



Sun StorEdge D240 Media Tray



Sun StorEdge D1000 Array



Sun StorEdge A1000 Array



Sun StorEdge T3 Array

For additional information on this product go to:

www.sun.com/storage/workgroup/S1

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