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SUN microsystems	Products and Solutions	<u>(</u>	

SPARCstorage Array Series: The industry's most innovative storage solution.

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The one thing you demand from your information systems, above all else, is dependability. Benchmarks and gigabytes don't mean much if the system isn't up and running. But you don't need us to tell you that. What you need is an affordable solution that's easy to implement and even easier to maintain.

Our SPARCstorage(tm) Array subsystems provide an unmatched combination of capacity, performance, high availability, and manageability at surprisingly low prices. This line of disk arrays integrate a remarkable number of features -- RAID, hot spares, a high-speed fibre channel, and a dual-ported controller for system failover, to name just a few -- so you'll have something you can really use. Peace of mind.

Capacity and performance that scale in concert

Because of their modular design, both the SPARCstorage Array 100 Series and 200 Series can easily and cost-effectively add storage capacity and performance.

The base configuration of the compact, stackable SPARCstorage Array 100 Series includes six high-performance, low-profile disk drives, and you can add two dozen more. For even greater capacity, you can connect two arrays to each SBus slot on the host system. So, whether you're dealing with hundreds of gigabytes or even a terabyte or more, these subsystems will do the job.

For enterprise servers that require multiple terabytes of capacity, there's the cabinet-size SPARCstorage Array 200 Series. Combined with our SPARCcenter(tm) 2000 server, it delivers the scalability needed for large mission-critical data center applications at an exceptionally low price per gigabyte. With the 200 Series, you can connect up to 36 large form factor drives for up to 300 gigabytes in a single cabinet - with the added benefit of protecting your investment in 5.25-inch disks.

Furthermore, the SPARCstorage Array's intelligent controller, with nonvolatile cache, offloads the I/O processing burden from the server so performance increases as you add more arrays to your system.

With their leading-edge fibre channel interface, our SPARCstorage Array subsystems give you more bandwidth than other disk arrays. They also allow you to use fiber-optic cables as long as two kilometers, so the host system and the disk array can reside in different buildings. That way, even in the event of a fire or other disaster, your data will be safe.

Putting an end to unplanned downtime

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To ensure that you won't lose any data -- even if a disk drive should fail -- our SPARCstorage Array subsystems provide RAID levels 5, 1, and 0+1. They even give you the additional flexibility of RAID 0 and independent disks, all at the same time. So you can choose the ideal configuration to match your requirements for availability, performance, capacity, and price.

With the hot-spare option, you have the luxury of choosing the most convenient time to replace a faulty disk. A built-in spare goes to work automatically, rebuilding your data and restoring the system to full speed. And when you're ready, replacing a disk in the 100 Series takes less than a minute -- no tools required. With our warm-plug feature, you don't even have to shut off the power. Which means you don't have to reboot.

Should you want even more peace of mind, our SPARCstorage Array products are also backed by SunService, one of the industry's highest rated service and support organizations. But the beauty of these innovative disk arrays is just how much you can do for yourself.

Almost all administrative tasks can be handled on line. You can monitor component status, tune performance, even reconfigure the

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system using simple point-and-click, drag-and-drop commands -- all while users continue to access information and run all their applications.

In other words, our SPARCstorage Array subsystems not only make system administrators' lives easier, they can make your whole business more productive.

SPARCstorage Array Series Specifications

Common to Model 100 and Model 200 Series

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Common to Model 100 and Model 200 Series		
Main Memory		
Main processor SPARC® Version 8, microSPARC Read/write cache4 MB nonvolatile RAM on board		
Bus/cache controller	(battery module on daughter card) Sun Bus Interface and NVRAM Controller ASIC Fibre channel Sun Serial Optical Channel ASIC	
Internal SCSI channels	Dual ported (optional) Six intelligent, low-overhead processors Fast/wide (20 MB/sec) SCSI-2	
Host System Interface		
SBus card	Single-width fibre channel SBus card Sun Serial Optical Channel ASIC Up to 2 arrays per card	
Fibre Channel Interface		
Standards	- ANSI Fibre Channel FC-PH Rev 4.2, X3T11-755D ANSI SCSI Fibre Channel Protocol Rev 8, X3T10-993D	
Optical modules	25 MB/sec (266 Mb/sec) full duplex 780 nanometer shortwave laser	
Fiber cable type50/125 Maximum cable length	micrometer multimode, ST type connectors 2 kilometers	
Software		
SPARCstorage Volume Manager	<pre>Included with array subsystem X/Motif® graphical user interface Virtual storage management Independent disks, volume concatenation RAID levels 0 (striping), 1 (mirroring), 0+1 (mirrored stripes), and 5 (striping with rotated parity) On-line storage reorganization and load balancing Visual performance displays for tuning Complete status displays Command line interface also provided</pre>	
Specific to Model 100 S	Series	
Packaging		
Subsystem includes	Intelligent array controller 6 to 30 disk drives in 3 trays High reliability power supply 3 variable-speed fans with rotation and temperature sensors LCD panel with status displays for disk drives, fans, NVRAM battery, fiber links, controller, and power on self-test	
Standard mounting Mounting optionsTower s	Table top	

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Rack-mount kit

ow-profile Single Connector ast-wide SCSI-2 ast/wide SCSI-2 st SCSI-2
<pre>ast-wide SCSI-2 ast/wide SCSI-2 st SCSI-2 3 Hz, 6.5 amps at 100 VAC 40° C (50° F to 104° F) % relative humidity, noncondensing 60° C (-4° F to 140° F) relative humidity, noncondensing</pre>
ast-wide SCSI-2 ast/wide SCSI-2 st SCSI-2
ast/wide SCSI-2 st SCSI-2 3 Hz, 6.5 amps at 100 VAC 40° C (50° F to 104° F) % relative humidity, noncondensing 60° C (-4° F to 140° F) relative humidity, noncondensing
<pre>st SCSI-2 3 Hz, 6.5 amps at 100 VAC 40° C (50° F to 104° F) % relative humidity, noncondensing 60° C (-4° F to 140° F) relative humidity, noncondensing</pre>
3 Hz, 6.5 amps at 100 VAC 40° C (50° F to 104° F) % relative humidity, noncondensing 60° C (-4° F to 140° F) relative humidity, noncondensing
40°C (50°F to 104°F) % relative humidity, noncondensing 60°C (-4°F to 140°F) relative humidity, noncondensing
40°C (50°F to 104°F) % relative humidity, noncondensing 60°C (-4°F to 140°F) relative humidity, noncondensing
40°C (50°F to 104°F) % relative humidity, noncondensing 60°C (-4°F to 140°F) relative humidity, noncondensing
<pre>% relative humidity, noncondensing 60° C (-4° F to 140° F) relative humidity, noncondensing</pre>
relative humidity, noncondensing
(at 25 C)
quirements:
CSA 950, TUV EN 60950
aser requirements per CFR 21, Part 1040
25 B, DOC Class B, VCCI Class 2,
tive (89/336/EEC), EN55022 Class B
/336/EEC), EN55082-1
tive (89/336/EEC), EN60555-2
2.7 cm (8.94 in.)
9.4 cm (19.46 in.) 3.5 cm (21.06 in.)
0 kg (66 lb.) approx.
8 kg (106 lb.) approx.
.83 meters (6 feet)
nt array controller
interface boards, each with 3 fast/wide
ntial SCSI-2 interfaces
oard with status displays for fans, attery, fiber links, controller, and
n self-test
ability power supply
ystem including two fans with rotation and
ture sensors e trays
er cabinet
Model 200 subsystem
ives per tray
ives per tray power supply and cooling in each tray Ds for each drive
power supply and cooling in each tray
power supply and cooling in each tray
power supply and cooling in each tray
power supply and cooling in each tray Ds for each drive full height SI-2
power supply and cooling in each tray Ds for each drive full height SI-2 st/wide SCSI-2
power supply and cooling in each tray Ds for each drive full height SI-2
power supply and cooling in each tray Ds for each drive full height SI-2 st/wide SCSI-2
power supply and cooling in each tray Ds for each drive full height SI-2 st/wide SCSI-2
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Operating 10° C to 40° C (50° F to 104° F) 20% to 80% relative humidity, noncondensing Nonoperating -20° C to 60° C (-4° F to 140° F) 5% to 95% relative humidity, noncondensing Operating acoustic noise 6.0 bels (at 25° C) Declared noise emissions in accordance with ISO 9296

Height Width Depth Weight (with 36 disk drives) Power cord	77 cm (30 in.) 99 cm (39 in.) 394 kg (867 lb.) approx. 4.6 meters (15 feet)
Width Depth	99 cm (39 in.)
	// Cm (30 1n.)
Height	
	143 cm (56 in.)
Dimensions and Weight	
Harmonics EMC D	Directive (89/336/EEC), EN60555-2
Immunity EMC Directive	
	Directive (89/336/EEC), EN55022 Class B
1	Class A, DOC Class A, VCCI Class 2,
	IEC 825 when installed in a Sun data center cabinet:
	s 1 laser requirements per CFR 21, Part 1040
-	950, CSA 950, TUV EN 60950
Meets or exceeds the followin	ng requirements:
Regulations	

Questions or comments regarding this service? webmaster@sun.com

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