

## SUN STORAGE 2500-M2 ARRAY

AFFORDABLE, RELIABLE, AND GREAT  
PRICE TO PERFORMANCE STORAGE

### KEY FEATURES

- Supports existing FC and SAS2 infrastructures and entry-level SANs and DAS for low-cost growth
- SAS2 technology ensures reliability with point-to-point architecture and dual-ported drives
- Investment protection with auto-negotiating 8 Gb/sec FC connectivity
- Support for high-performance SAS2
- Sun Storage Common Array Manager software—simple to implement and manage with an intuitive and familiar user interface
- The Sun Storage 2500-M2 Array is also part of Oracle's Netra product portfolio—the industry's broadest line of carrier-grade server

*Oracle's Sun Storage 2500-M2 Array is designed for a wide range of users. It brings together the latest Fibre Channel (FC) and SAS2 technologies with Oracle's intuitive Sun Storage Common Array software to create a robust solution that's equally adept in an entry-level storage area network (SAN) for the midsize business and integrating into an existing storage network within the enterprise.*



### Affordable, Reliable Storage for Any Size Organization

Both large and small enterprises face their own distinct challenges. The large enterprise buyer, with departmental and remote offices, is searching for a reliable and self-administrable storage solution from a name they can trust. And the current small enterprise administrator, with unconsolidated Direct Attach Storage (DAS), requires a more-efficient and networked storage solution. While each of these organizations faces its own unique storage demands, Oracle can satisfy both of these markets' data requirements with the affordable, available, and high-performance Sun Storage 2500-M2 Array.

Oracle's expertise in external storage system development provides the intellectual groundwork for the Sun Storage 2500-M2 Array - ensuring best-of-breed technology and reliability. The Sun Storage 2500-M2 Array combines Oracle's time-proven designs with advanced front-end 8 Gb/sec FC and 6 Gb/sec SAS2 host connectivity and next-generation SAS2 backend technology to enable an organization's productivity through data consolidation, availability, performance, and scalability.

With eight auto-negotiating 8 Gb/sec FC and four SAS2 6Gb/sec host ports, the Sun Storage 2500-M2 Array supports direct attachment of up to eight servers, or provides additional server attachment through FC SAN connectivity. This makes it a great array solution for businesses that want to initially deploy the Sun Storage 2500-M2 Array as a directly attached array, and then seamlessly transition to a SAN when ready.

### Flexible Solution for Network Equipment Providers

The Sun Storage 2500-M2 Array is designed to work in conjunction with Oracle's Netra Rack Servers in the telecommunication infrastructure. With NEBS Level 3 certification, redundant controllers and available DC power options, it perfectly complements Netra servers in highly available environments.

Netra hardware is designed for telco and is ruggedized, NEBS Level 3 certified, built with a shorter form factor to make cabling and rear access simpler and includes Telco-specific management and alarms functions to make maintaining systems easier. Netra products come with an extended lifecycle and are designed and optimized to work with Oracle Solaris, THE carrier grade operating system.

### Start Small, Grow Big

The Sun Storage 2500-M2 Array's modular design creates an affordable entry point without sacrificing future scalability - enabling customers to start small and grow big when they're ready. Dual-active controllers and up to 12 SAS2 drives combine to create a full-featured and highly available storage system in a 2U enclosure. And when capacity or performance requirements change, the Sun Storage 2500-M2 Array's scalability supports up to 36 additional drives for a total of 48 drives.

### Simple Installation and Management

The Sun Storage Common Array Manager's (CAM) web-like and task-based management interface significantly reduces the complexity of installation, configuration, management, and diagnostic tasks. Online capacity expansion, data-volume creation, and host-to-volume mappings give users control of their arrays and the ability to make quick changes when necessary. Accessible from anywhere in the world with a secure internet connection, the Sun Storage CAM includes automated diagnostics so users can focus on precise, predictable, and repeatable results. Sun Storage CAM also scales across Oracle's entire modular disk portfolio and is provided at no additional cost.

Sun Storage 2500-M2 Array	
Controller Card	Cache Size (with ECC Protection)
<ul style="list-style-type: none"> <li>2540-M2: Dual FC RAID controller</li> <li>2530-M2: Dual SAS RAID controller</li> </ul>	2 GB
Host Interfaces/Link Speeds	
<ul style="list-style-type: none"> <li>2540-M2: 4 2/4/8Gb/sec auto-negotiating FC ports with option to upgrade to 8 ports</li> <li>2530-M2: 4 1.5/3/6Gb/sec auto-negotiating SAS2 ports</li> </ul>	
Other Interfaces	
<ul style="list-style-type: none"> <li>Up to two 10/100 BaseT Ethernet</li> <li>Up to two nine-pin RS232 serial ports per dual controller tray</li> </ul>	
RAID Levels	Cache Battery Backup
0, 1, 10, 3, 5, 6, (P+Q)	Up to 72 hours (depending on cache size)
Integrated Data Services	
<ul style="list-style-type: none"> <li>Sun Storage Storage Domains: Two domains included</li> </ul>	
Dynamic Capacity Expansion	Expansion Trays
5 to 48 drives	Up to three expansion trays
Drive Depopulation	Maximum Array Capacity
Scales from 5 to 12 hard disk drives per tray	28.8 TB
Disk Drives	
Form Factor	Interface
3.5 in.	Dual-ported SAS2
Supported Drives	
SAS drives <ul style="list-style-type: none"> <li>SAS2: 300 GB 15,000 rpm 3.5"</li> </ul>	

<ul style="list-style-type: none"> <li>• SAS2: 600 GB 15,000 rpm 3.5"</li> </ul>
<b>Supported Software</b>
<ul style="list-style-type: none"> <li>• Sun Cluster Software</li> <li>• Red Hat Cluster Suite</li> </ul>
<b>Management Software Support</b>
Sun Storage Common Array Manager (CAM) software
<b>Operating System Support</b>
<ul style="list-style-type: none"> <li>• Oracle's Solaris Operating System 10</li> <li>• Oracle's Enterprise Linux 5.5, 5.6 and 6.0</li> <li>• Red Hat Enterprise Linux 5, 6</li> <li>• SuSe Linux Enterprise Server 10, 11 (2540-M2 only)</li> </ul>
<b>Host Connectivity</b>
<ul style="list-style-type: none"> <li>• Host/HBA/IP switches multipath driver: Solaris OS and RedHat Linux</li> <li>• All HBAs supported in SAN 4.4.12</li> </ul>
<b>Dimensions</b>
<ul style="list-style-type: none"> <li>• Height x width x depth: 86.1 mm (3.39 in.) x 482.5 mm (18.99 in.) x 551.6 mm (21.75 in.)</li> <li>• Weight (maximum): 57.32 lbs (AC version), 59.96 lbs (DC version)</li> </ul>
<b>Power Requirements</b>
<ul style="list-style-type: none"> <li>• AC power: 100-240V~, 7.0-2.9A, 50/60Hz</li> <li>• DC power: -42 to -60Vdc, 21.7-15.3A</li> </ul>
<b>Temperature</b>
<ul style="list-style-type: none"> <li>• Operating Range: 10°C to 40°C (50°F to 104°F)</li> <li>• Storage Range: -10°C to 50°C (14°F to 122°F)</li> <li>• Transit Range: -40°C to 60°C (-40°F to 140°F)</li> </ul>
<b>Regulations</b>
<ul style="list-style-type: none"> <li>• Safety Marks: UL, C-UL, CE, BSMI (DoC), GOST</li> <li>• Emissions/Immunity: FCC Class A, ICES-003 Class A, VCCI Class A, EN55022 Class A/EN55024 (CE), CNS13438 (BSMI DoC), AS/NZS CISPR22 (C-Tick), KN22/KN24 (KC)</li> <li>• Environmental: RoHS and WEEE</li> <li>• NEBS Level 3: GR-63 CORE requirements, GR-1089 CORE requirements</li> </ul>

## Contact Us

For more information about Sun Storage 2500-M2 Array, visit [oracle.com](http://oracle.com) or call +1.800.ORACLE1 to speak to an Oracle representative.



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