

# NEC s2300 Disk Array datasheet

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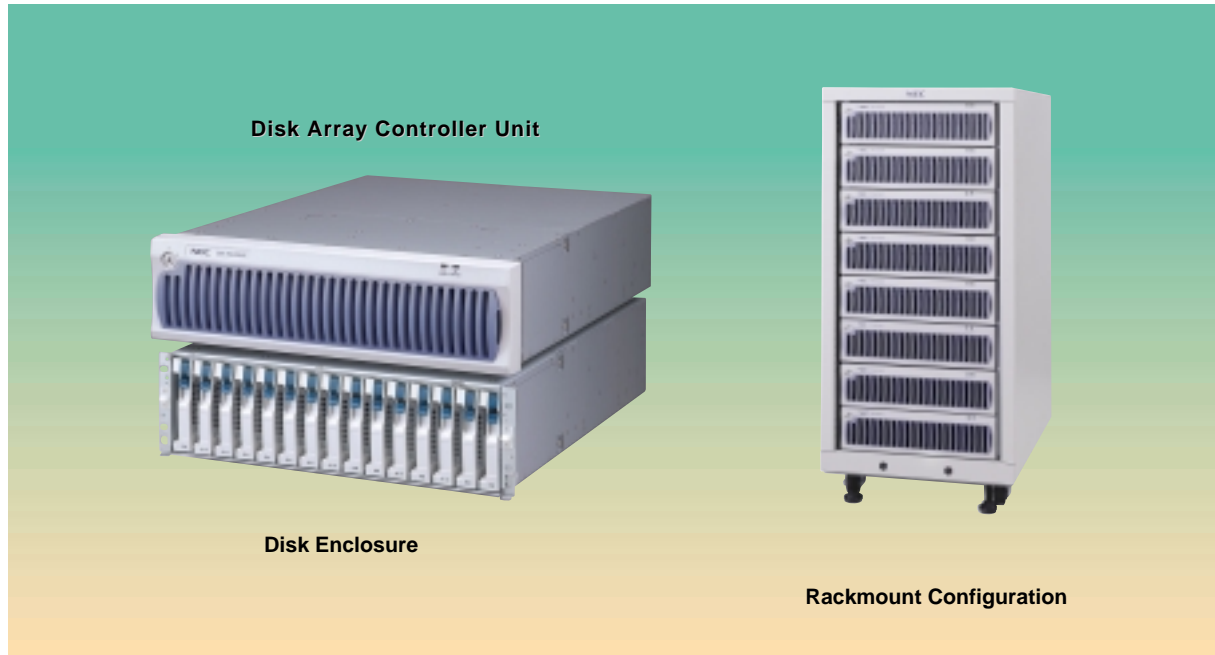
The S2300, a mid-range model in the NEC Disk Array family, can accommodate from 3 to 210 disk modules, providing maximum capacity of 28TByte. In addition to the host interface, the S2300 employs 2Gbps Fibre Channel interface for HDD connection as well. The IOPS performance is improved about maximum of 1.3 times of our proceeding product\*1 through integrated advanced architecture.

S2300 realizes flexible configuration which satisfies variety of needs through support of various types of disk modules and support of various RAID level, i.e. RAID-0, RAID-1, RAID-5 and RAID-10.

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# NEC Storage S2300 Disk Array



## High Performance Mid-range Disk Array S2300 28TB with Advanced Architecture for your Internet Business

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### Advanced Architecture

- Own design high-performance RAID Engine LSI.
- 2Gbps Fibre Channel for both host interface and disk module interface.
- High-speed disk modules with 10Krpm or 15Krpm.
- High-performance internal microprocessor.

### Flexible Configuration and High Scalability

- Capable of integrating various capacity mix of disk modules and supporting RAID-0, RAID-1, RAID-5 and RAID-10.
- Two controllers are equipped as standard. Each has own port and can add another optional port for improved server connection.
- One disk enclosure can mount up to 15 disk modules. Up to 14 disk enclosure can be connected for the maximum capacity.
- Cache memory is 512MByte to 4GByte for each controller and up to 8GByte for each S2300.

### Improved Availability with Redundant Components

- Redundant main components, including cache, power supply, fan and even battery backup unit.
- Response delay can be avoided and disk replacement rate can be reduced by employing patented Phoenix Technology\*<sup>2</sup>.

### "NEC Storage Manager" Software

NEC Storage Manager software realizes integrated management of S2300 and other NEC Disk Array product.

- Configures and shows the setup of logical disks, controllers and so forth through GUI.
- Monitors and notifies S2300 itself and its internal component status.
- Gathers performance information from logical disks, controllers and so on and reports it in a graphical chart for performance monitoring and tuning.

### Data Replication Function

- Dynamic Data Replication (DDR) is provided as S2300 optional software feature. It creates replicated volume without host server intervention.

\*1) NEC disk array S2200.

\*2) Phoenix Technology: HDD once performance degradation is observed is put under special supervision and background diagnosis. Host access is processed without accessing HDD under supervision. In case diagnosis result is temporary performance degradation, HDD in question is returned to ordinary usage.

# NEC Storage S2300 Disk Array

## ■Standard Performance/Specifications

Model Name			S2300
Host Interface			2Gbps Fibre Channel
Number of Host Ports			2 to 4 Ports (1 or 2 Ports/Controller)
Cache Memory	Maximum Physical Capacity		1,024 to 8,192MByte/S2300 (512 to 4,096MBytes/Controller)
	Battery Backup Time		96 Hours or more*1
Support RAID Level			RAID-0, 1, 5, 10
Storage Capacity*2	147GByte HDD	Under RAID5 Configuration	285GBytes to 28.0TBytes
	73GByte HDD	Under RAID5 Configuration	143GBytes to 14.0TBytes
	36GByte HDD	Under RAID5 Configuration	71GBytes to 7.0TBytes
Number of HDD	147GByte HDD		3 to 210
	73GByte HDD		3 to 210
	36GByte HDD		3 to 210
HDD Specification	HDD interface		2Gbps Fibre Channel
	Capacity*2 (Formatted)	147GByte HDD	142.95GBytes
		73GByte HDD	71.60GBytes
		36GByte HDD	35.74GBytes
	Rotational Speed	147GByte HDD	10,000rpm
		73GByte HDD	10,000rpm
		36GByte HDD	10,000rpm/15,000rpm
	Average Seek Time	147GByte HDD	4.9ms/5.7ms (Read/Write)
		73GByte HDD	5.3ms/5.7ms (Read/Write)
		36GByte HDD	5.2ms/6.0ms (Read/Write)
Cabinet Dimensions (W × D × H)*3	Basic Configuration		482×594×262mm
	Expansion Disk Enclosure		482×594×131mm
EIA Standard Height	Basic Configuration		6-EIA
	Expansion Disk Enclosure		3-EIA
Weight	Basic Configuration		77kg or less
	Expansion Disk Enclosure		41kg or less

\*1: Value depends on cache amount.  
\*2: Calculated as 1GByte = 1,000,000,000Bytes and 1TByte = 1,000,000,000,000Bytes.  
\*3: Depth is 594mm with front mask attached.  
\*4: Specifications are subject to change without notice.

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