

NEC s1300 Disk Array Unit datasheet

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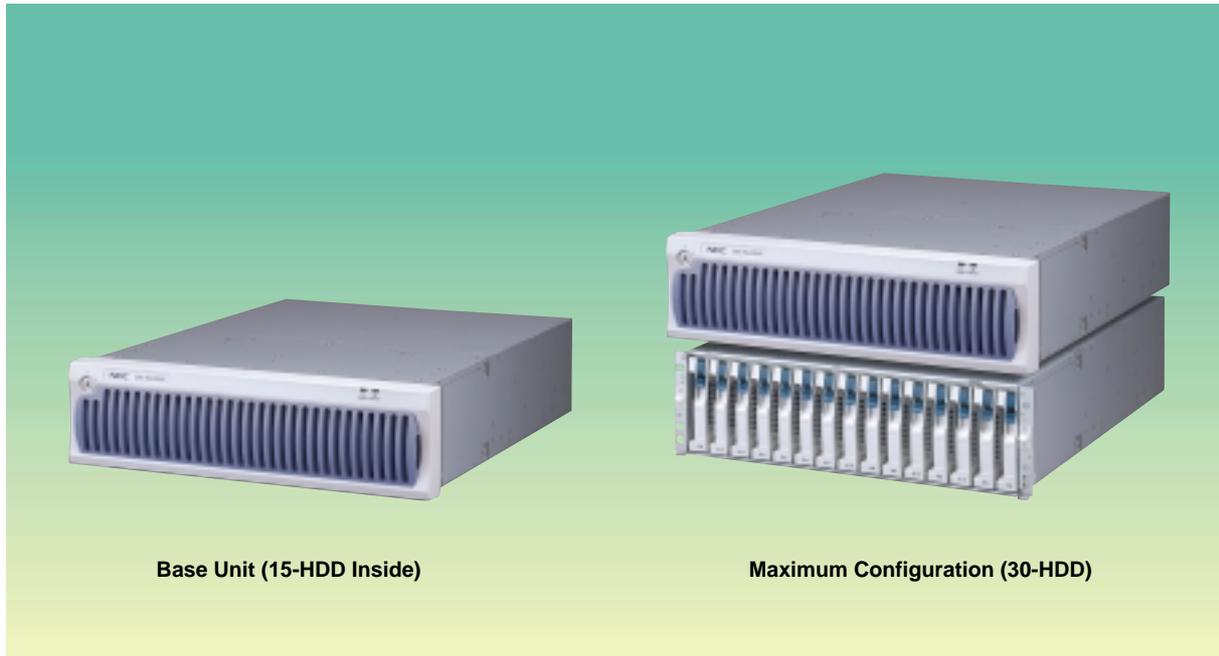
The S1300, an entry model in the NEC Disk Array family, can accommodate from 3 to 30 disk modules, providing maximum capacity of 4TByte. In addition to the host interface, the S1300 employs 2Gbps Fibre Channel interface for HDD connection as well. The IOPS performance is improved about maximum of 1.6 times of our proceeding product*1 through integrated advanced architecture.

S1300 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 S1300 Disk Array



Base Unit (15-HDD Inside)

Maximum Configuration (30-HDD)

High Performance Entry Disk Array S1300 Advanced Dual Controllers and 15-HDD in Single 3-EIA Cabinet

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Advanced Architecture

- Equipped with NEC own design high-performance RAID Engine LSI for internal control.
- Employs 2Gbps Fibre Channel for both host interface and disk module interface.
- Integrates high-speed disk modules spinning at 10,000rpm or 15,000rpm.
- Employs high-performance 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 for host server connection.
- 512MByte cache memory is available for each controller. 1GByte is available for each S1300.

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^{*2}.

“NEC Storage Manager” Software

NEC Storage Manager software realizes integrated management of S1300 and other NEC Disk Array product.

- Configures and shows the setup of logical disks, controllers and so forth through GUI.
- Monitors and notifies S1300 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.

Space Saver High Density Mechanical Architecture

- Base Unit is 3-EIA height and can accommodate redundant controllers and up to 15 disk modules.
- Additional Disk Enclosure is 3-EIA height also and can accommodate another up to 15 disk modules.

*1) NEC disk array S1200.

*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.

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■Standard Performance/Specifications

Model Name		S1300	
Host Interface		2Gbps Fibre Channel	
Number of Host Ports		2 Ports (1 Port/Controller)	
Cache Memory	Maximum Physical Capacity	1GByte/S1300 (512MByte/Controller)	
	Battery Backup Time	72 Hours	
Support RAID Level		RAID-0, 1, 5, 10	
Storage Capacity* ¹	147GByte HDD	Under RAID5 Configuration	285GBytes to 4.0TBytes
	73GByte HDD	Under RAID5 Configuration	143GBytes to 2.0TBytes
	36GByte HDD	Under RAID5 Configuration	71GBytes to 1.0TBytes
Number of HDD	147GByte HDD		3 to 30
	73GByte HDD		3 to 30
	36GByte HDD		3 to 30
HDD Specification	HDD Interface		2Gbps Fibre Channel
	Capacity* ¹ (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)* ²	Base Unit	482×594×131mm	
	Expansion Disk Enclosure	482×594×131mm	
EIA Standard Height	Base Unit	3-EIA	
	Expansion Disk Enclosure	3-EIA	
Weight	Base Unit	45kg or less	
	Expansion Disk Enclosure	41kg or less	

*1: Calculated as 1GByte = 1,000,000,000Bytes and 1TByte = 1,000,000,000,000Bytes.

*2: Depth is 594mm with front mask attached.

*3: Specifications are subject to change without notice.

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