Complete setup in a matter of minutes
Simplified initial setup procedure: with the preinstalled management software, just select the desired capacity and RAID level, and let M100 Disk Array perform its own settings to enable the best performance.

User-friendly GUI for storage management
The highly visual Web browser screens let you quickly grasp the status of storage capacity, disk load, and connected servers. Even first-time users, can easily make changes to the replication settings or capacity, and can handle fault in the event of a failure.

Advanced power-saving design
M100 Disk Array slashes previous power consumption levels to achieve one of the best power ratings in the industry. It uses a power-efficient processor and autonomously controls the operating mode to reduce the power consumption of the entire system. Low-power components have been used to the greatest extent possible.

Easily ramp up capacity and performance
M100 Disk Array offers a newly developed Advanced Dynamic Pool technology. Pool capacity can be increased simply by adding hard disk drives. The data will be automatically organized into the optimal configuration to raise the performance of the entire data pool.

Non disturbing data backup
M100 Disk Array provides a snapshot function to save only the modified data and a function to replicate an entire data volume without disrupting operations. The replicated volume can be used for tape backup, batch processing, or tests, using actual data.

Thin provisioning in virtual environment
Answering needs, the capacity of physical volumes can be allocated to virtual drives and hard disk drives added without disrupting operations. In this way, capacity usage is optimized, improving utilization, reducing initial investment layout, and lowering power consumption. There is no inefficient stoppage and schedule adjustment.

High performance & availability
Advanced eco features
Easy to install & operate
Extremely economical
### Advanced eco features
- Silent and Autonomously switches to low-power mode
- Uses a power-efficient processor with a TDP (thermal design power) of 30 W
- Includes a highly efficient power supply
- Operates in environments with temperatures up to 40°C, reducing air conditioning usage

### High performance & availability
- Uses duplication and redundancy design for critical components
- Capacity and performance can be increased just by adding hard disk drives
- Can be managed remotely through status monitoring and log acquisition
- Uses a high-speed interface

### Extremely economical
- Excellent cost-performance ratio
- Bundled management software
- iSCSI interface enables economical system configuration

### Easy to install & operate
- No management server required
- Setup is simple and quick
- Can be easily managed and operated thanks to an intuitive, user-friendly GUI (CLI supported)
- Executes self-diagnosis and displays appropriate response measures if faults occur
- Firmware updates can be applied during operation

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### M100 DISK ARRAY

#### SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>M100 DISK ARRAY SUPPORTING 3.5&quot; DRIVE</th>
<th>M100 DISK ARRAY SUPPORTING 2.5&quot; DRIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chassis structure rack mount</td>
<td>Seven disk enclosures supporting 3.5&quot; drives or three disk enclosures supporting 2.5&quot; drives can be connected to the disk array controller.</td>
<td>Three disk enclosures supporting 2.5&quot; drives or six disk enclosures supporting 2.5&quot; drives can be connected to the disk array controller.</td>
</tr>
<tr>
<td>Hot interface</td>
<td>Fibre Channel (MEXIS, ECUI 1Gbps or 10 Gbps)</td>
<td>The disk array controller or disk enclosures can house up to 12 drives.</td>
</tr>
<tr>
<td>Number of host ports</td>
<td>FC: 8 or 4, DC: 4</td>
<td>The disk array controller or disk enclosures can house up to 24 drives.</td>
</tr>
<tr>
<td>RAID level</td>
<td>RAID-0, 1, 5, 6, 10, 50, 60, TM</td>
<td>RAID-0, 1, 5, 6, 10, 50, 60, TM</td>
</tr>
</tbody>
</table>

#### Drive specifications

<table>
<thead>
<tr>
<th>Type / Capacity / Rotational speed</th>
<th>SAS HDD</th>
<th>NAS HDD</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5&quot; 300 GB, 450 GB, 600 GB (15,000 rpm)</td>
<td>2.5&quot; 300 GB, 450 GB, 600 GB (10,000 rpm)</td>
<td></td>
</tr>
<tr>
<td>3.5&quot; 450 GB</td>
<td>2.5&quot; 100 GB</td>
<td></td>
</tr>
<tr>
<td>3.5&quot; 600 GB (15,000 rpm)</td>
<td>2.5&quot; 600 GB (10,000 rpm)</td>
<td></td>
</tr>
</tbody>
</table>

#### Device capacity (Maximum capacity)

| SAS HDD | 46.8 TB |
| Narrowed SAS HDD | 106.8 TB |
| SAS SSD | 3.7 TB |
| Encryption SAS SSD | 46.8 TB |

#### Supported operating systems

- Windows, Linux, VMware

#### Power conditions

- Maximum power consumption:
  - 400 W (when operating)
  - 290 W (Non-operating)

#### Ambient operating conditions

- Temperature: 5 to 40°C (41 to 104°F) (while operating); -10 to 60°C (14 to 140°F) (Non-operating)

#### Humidity

- 10 to 80% RH (while operating), 5 to 80% RH (Non-Operating)

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### TYPE

#### Storage Management

<table>
<thead>
<tr>
<th>MODEL</th>
<th>M100 DFS</th>
<th>M100 (ICSI)</th>
<th>FEATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device Management</td>
<td>NEC Storage Manager Suite</td>
<td>NEC Storage Manager Suite</td>
<td>Basic storage functions for multi-array management</td>
</tr>
<tr>
<td>Performance Management</td>
<td>NEC Storage PerformanceMonitor Suite</td>
<td>NEC Storage PerformanceMonitor</td>
<td>Bundle of NEC Storage PerformanceMonitor and NEC Storage PerformanceMonitor</td>
</tr>
<tr>
<td>Storage Control</td>
<td>NEC Storage ControlCommand Media Kit</td>
<td>NEC Storage ControlCommand</td>
<td>Function for real-time performance monitoring of disk array</td>
</tr>
</tbody>
</table>

#### Replication

- NEC Storage Dynamic DataReplication
- NEC Storage Dynamic DataReplication Express
- NEC Storage RemoteDataReplication
- NEC Storage RemoteDataReplication AppendSync
- NEC Storage ReplicationControl SQL Option
- NEC Storage ReplicationControl Filesystem Option
- NEC Storage ReplicationControl Filesystem Option
- NEC Storage ReplicationControl Filesystem Option

#### Resource Control

- NEC Storage PowerConverter
- NEC Storage VolumeProtect
- NEC Storage Provisioning

#### High Availability

- NEC Storage PathManager

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NEC Corporation
7-1, Shiba 5-chome, Minato-ku, Tokyo, 108-8001 Japan

www.nec.com

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NEC IT Platform Solutions Division
European Headquarters
29, rue des Hautes Pâtures - 92737 Nanterre Cedex France

www.nec-itplatform.com

Tel: +33 1 46 49 46 49

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*1: Dual controller model capacity
*2: The RAID-0 does not include redundancy, so data will be lost if any of the disks fails. NEC strongly recommends using a RAID level with redundancy. Please contact NEC before implementing a RAID-0.
*3: Capacity is calculated based on a conversion factor of 1 GB = 1.000.000.000 bytes and 1 TB = 1.000.000.000.000 bytes.
*4: The maximum capacity is calculated based on the assumption that a drive with the maximum capacity is selected for each drive and that a RAID-5 is used.
*5: When using SSD, up to 12 drives can be connected. The disk array connection might be restricted depending on the operating system used. Contact NEC for details.
*6: The front bezel is an optional extra.
*7: Bundled with the disk array controller.

*8: The RAID-0 does not include redundancy, so data will be lost if any of the disks fail. NEC strongly recommends using a RAID level with redundancy. Please contact NEC before implementing a RAID-0.
*9: Capacity is calculated based on a conversion factor of 1 GB = 1.000.000.000 bytes and 1 TB = 1.000.000.000.000 bytes.
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