High capacity NAS HDDs for SOHO and branch office use that provide 24/365 operational reliability in a range of capacities that allow you to grow storage capacities with increasing data and business needs. These devices are well designed for file sharing and as file and object storage for data backup and content archives.

NAS
Hard Disk Drive

MN Series

Multi-capacity lineup
With a wide selection of capacities from 4TB to 14TB, you can choose the best capacity to suit your business or other needs.

Durability and reliability
With a durability that can handle an annual workload of 180TB and a reliability that offers an MTTF of a million hours, this series is designed for 24/365 continuous operation.

High Density Storage expansion
Thanks to the inclusion of an RV sensor (rotational vibration sensor), these HDDs make stable operation possible for multi-disk platforms of up to eight HDDs in a single enclosure.
NAS Hard Disk Drive

Application

- Home and SMB (Small and Medium Business) NAS
- SMB file and object storage
- Archiving and data back-up
- Private cloud storage

Specifications

<table>
<thead>
<tr>
<th>Formatted Capacity</th>
<th>14 TB</th>
<th>12 TB</th>
<th>10 TB</th>
<th>8 TB</th>
<th>6 TB</th>
<th>4 TB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number</td>
<td>MN07ACA14T</td>
<td>MN07ACA12T</td>
<td>MN06ACA10T</td>
<td>MN05ACA800</td>
<td>MN05ACA600</td>
<td>MN04ACA400</td>
</tr>
</tbody>
</table>

**Specification**

- Mechanical Design: Helium-Sealed
- Conventional Air
- Interface: SATA 6 Gbit/s
- Form Factor: 3.5-Inch (Height: 26.1 mm, Length: 147.0 mm, Wide: 101.85 mm)
- Maximum Weight: 720 g, 770 g, 720 g

**Performance**

- Rotation Speed: 7,200 rpm
- Drive Bay Supported: Up to 8
- RV Sensor: Supported
- Maximum Sustained Data: 248 MiB/s, 242 MiB/s, 237 MiB/s, 230 MiB/s, 205 MiB/s, 185 MiB/s
- Buffer Size: 256 MiB, 128 MiB

**Reliability**

- MTTF: 1,000,000 hours
- 24/7 Operation: Supported
- Workload Rating: 180 TB Transferred per Year

**Power Requirements**

- Power Consumption: Active Idle: 4.54 W, 4.28 W, 7.15W, 6.2 W, 6.7 W, 5.2 W

**Environmental Requirements**

- Temperature: Operating: 0 to 60 °C, 0 to 65 °C
- Non-Operating: 0 to 70 °C, -40 to 70 °C
- Vibration: Operating: 7.5 m/s² (0.75 G) (5 to 300 Hz), 2.45 m/s² (0.25 G) (300 to 500 Hz)
- Non-Operating: 29.4 m/s² (3.0 G) (5 to 500 Hz)
- Shock: Non-Operating: 2,450 m/s² (250 G) (2 ms duration)
- Acoustic: Active Idle: 20 dB, 34 dB, 33 dB, 30 dB

* Definition of capacity: Toshiba defines a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2³⁰ ≈ 1,073,741,824 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.
* A megalow (MiB) means 2⁵⁰ or 1,048,576 bytes. * MTF (Mean Time to Failure) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTF.
* Read and write speed may vary depending on the host device, read and write conditions, and file size. * 3.5-Inch means the form factor of HDDs. They do not indicate drive’s physical size.
* Workload is a measure of the data throughput of the year, and it is defined as the amount of data written, read or verified by commands from the host system.

Toshiba Electronic Devices & Storage Corporation

https://toshiba.semicon-storage.com

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