Proven quality for your Desktop PC

Delivering both the performance and capacity required for graphic design, games and other tasks, the DT Series HDDs are designed to provide years of reliable service. With a wide range of capacities from 6TB to 500GB, you can select the capacity that best fits your needs.

Desktop Hard Disk Drive

DT Series

- Up to 6TB: High capacity options up to 6TB suitable for video and photo data backup.
- Performance: We offer the DT02 series with 5400rpm for low power consumption and the DT01 series with 7200rpm for good performance.
- Strong track record: The award-winning DT01 series of Desktop HDDs are recognized for their quality and track record.
## Application
- Consumer Desktop Computers
- “All-in-one” Desktop PCs
- Desktop External Storage
- Gaming PC

## Specifications

<table>
<thead>
<tr>
<th>Formatted Capacity</th>
<th>6TB</th>
<th>4TB</th>
<th>2TB</th>
<th>3TB</th>
<th>2TB</th>
<th>1TB</th>
<th>500GB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number</td>
<td>DT02ABA600</td>
<td>DT02ABA400</td>
<td>DT02ABA200</td>
<td>DT01ACA300</td>
<td>DT01ACA200</td>
<td>DT01ACA100</td>
<td>DT01ACA050</td>
</tr>
</tbody>
</table>

### Recording Technology
- SMR
- CMR

### Interface
- SATA 6 Gbit/s

### Form Factor
- 3.5-inch (Height: 26.1 mm, Length: 147.0 mm, Wide: 101.85 mm)

### Maximum Weight
- 680 g
- 650 g
- 440 g
- 680 g
- 450 g

### Performance
#### Rotation Speed
- 5400 rpm
- 7200 rpm

#### Buffer Size
- 128 MiB
- 64 MiB

### Reliability
#### MTTF
- 600k hours
- 300k times

### Power Requirements
#### Supply Voltage
- 5 V DC ±5%
- 12 V DC ±10%

#### Power Consumption
- **Read/Write**:
  - 4.46 W
  - 4.11 W
  - 4.14 W
  - 6.4 W
  - 5.8 W
  - 6.4 W
- **Active Idle**:
  - 2.68 W
  - 2.32 W
  - 2.11 W
  - 5.2 W
  - 4.4 W
  - 3.7 W

### Environmental Requirements
#### Surface Temperature
- **Operating**:
  - 0 to 60 °C
- **Non-Operating**:
  - -40 to 65 °C
- **Non-Operating**:
  - -40 to 70 °C

#### Vibration
- **Operating**:
  - 4.90 m/s² (0.50 G) (5 to 350 Hz)
  - 2.35 m/s² (0.25 G) (350 to 500 Hz)
- **Non-Operating**:
  - 29.4 m/s² (3.00 G) (5 to 500 Hz)
  - 10.2 m/s² (1.04 G) (2 to 200 Hz)

#### Shock
- **Non-Operating** (2 ms duration):
  - 2940 m/s² (300 G)
  - 3430 m/s² (350 G)
- **Operating** (2 ms duration):
  - 2940 m/s² (300 G)
  - 3430 m/s² (350 G)

#### Acoustic
- **Idle**:
  - 24 dB
  - 22 dB
  - 21 dB
  - 27 dB
  - 25 dB

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- **Definition of capacity:** One terabyte (TB) = one trillion bytes, but storage capacity actually available may vary depending on operating environment and formatting. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system and/or pre-installed software applications, or media content. Actual formatted capacity may vary. • A mebibyte (MiB) means 1,048,576 bytes. • MTTF (Mean Time to Failure) of the HDDs during its life time is 600k hours. This assumes power-on hours are 2400 h/year (average HDA surface temperature 40°C or less, workloads: 55TB/year). Use at case HDA surface temperature above 40°C may degrade product reliability and reduce warranty period. • Operation of high surface temperature will be shortened of the drives useful life. The recommendation operating condition of surface temperature is less than 60°C. • 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. • Before creating and producing designs and using, customers must also refer to and comply with the latest versions of all relevant information of this document and the instructions for the application that Product will be used with or for. • Company names, product names, and service names may be trademarks of their respective companies.

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**Toshiba Electronic Devices & Storage Corporation**

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