

TOSHIBA

Leading Innovation >>>

STORAGE DEVICE DIVISION



MQ01ABDxxx

2.5-inch SATA HDD

Key Advantages:

- Up to 1TB Storage Capacity
- 5,400 Rotational Speed
- Excellent power efficiency
- Silent-seek Technology
- MTTF of 600,000 Hours

Applications:

- Notebooks and Small Form Factor PCs
- Gaming Consoles
- DVR set-top boxes
- External Storage Devices

Specifications:

| | MQ01ABD025 | MQ01ABD032 | MQ01ABD050 | MQ01ABD064 | MQ01ABD075 | MQ01ABD100 |
|---|---------------------------|------------|------------|------------|------------|------------|
| Storage Capacity, Formatted | 250 GB | 320 GB | 500 GB | 640 GB | 750 GB | 1000 GB |
| Number of Platters | 1 | 1 | 1 | 2 | 2 | 2 |
| Number of Heads | 2 | 2 | 2 | 4 | 4 | 4 |
| Bytes/ Sector | 4k | | | | | |
| Rotational Speed (rpm) | 5,400 | | | | | |
| Average Latency | 5.55 ms | | | | | |
| Average Seek Time: | | | | | | |
| Track-to-Track (seek) | 2 ms | | | | | |
| Average seek | 12 ms | | | | | |
| Interface: | | | | | | |
| Type | Serial ATA 2.6 / ATA-8 | | | | | |
| Data Transfer Rate: | 3Gb/s | | | | | |
| Buffer (MB) | 8 | | | | | |
| Power Requirements: | | | | | | |
| Voltage (V); Supply | +5V (±5%) | | | | | |
| Sleep (W) | 0.15 | | | | | |
| Standby (W) | 0.18 | | | | | |
| Read / Write (W) | 1.5 | | | | | |
| Spin-up (start) (W) | 4.5 | | | | | |
| Physical & Environmental Specifications Dimensions – mm: | | | | | | |
| Width x Depth x Height | 69.85 x 100.0 x 9.5 mm | | | | | |
| Weight max | 102 g | 102 g | 102 g | 112 g | 112 g | 112 g |
| Environmental: | | | | | | |
| Temp: Operating / Non-operating in ° | 5 to 55°C / -40 to 65°C | | | | | |
| Shock Operating / Non-operating | 400 G (2ms) / 900 G (1ms) | | | | | |
| Vibration: Operating | 1.0 G with 5 to 500Hz | | | | | |
| Acoustic Noise (random seek) | 19 dBA | 19 dBA | 19 dBA | 24 dBA | 24 dBA | 24 dBA |
| ROHS Compliant | Yes | | | | | |

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