

7,200 RPM

3.5-Inch SAS / SATA Enterprise Hard Disk Drives

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High storage capacities, enterprise-class reliability, optimized power consumption and performance efficiencies.



MK1001TRKB
MK2001TRKB
MK1002TSKB
MK2002TSKB

The Toshiba MKx001TRKB and MKx002TSKB series hard disk drives (HDDs) feature high storage capacities, enterprise-class reliability, enhanced power condition state technology, and performance efficiencies which are critical to business operations.

With a top storage capacity of 2TB¹, the Toshiba MKx001TRKB and MKx002TSKB HDDs utilize a traditional 3.5-inch form factor, enabling system builders to leverage 3.5-inch based storage chassis. The high-capacity, cost-effective models feature 7,200 RPM spin speed and leading-edge 6Gb/sec Serial Attached SCSI (SAS) and 3Gb/sec Serial ATA (SATA) interfaces.

Both series leverage the expertise and history of Toshiba in enterprise-class storage and offer similar features as traditional enterprise-class drives including 24 x 7 operation, Error Correction (ECC), Rotational Vibration (RV) technology for multi-drive systems, 1.2 million hours MTBF, and a 5-year warranty.

The MKx001TRKB and MKx002TSKB series HDDs are designed to support enterprise applications where reliability, high capacity, and performance are required. Specific applications include SAN, NAS, DAS, cloud storage, data centers, entry level servers and tiered storage system architecture.

- Lowest Cost Per GB Enterprise Storage Option
- 6Gb/sec Serial Attached SCSI (SAS) and 3Gb/sec (SATA) Interfaces
- Enhanced Power Condition State Technology
- Rotational Vibration (RV) Technology for Multi-drive Systems
- 5-Year Warranty

Hard Drive

7,200 RPM

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Series Overview

	MK1001TRKB	MK2001TRKB	MK1002TSKB	MK2002TSKB
Drive Capacity	1TB ¹	2TB ¹	1TB ¹	2TB ¹
Drive Interface	Serial Attached SCSI (SAS-2)		Serial ATA, Revision 2.6 (ATA-8)	
Number of Platters (disks)	2	4	2	4
Number of Data Heads	4	8	4	8
RoHS Compliant	Yes			
Transfer Rate to Host	SAS 6 Gb/s		SATA 3 Gb/s	

Performance

Track-to-track Seek	1ms			
Average Seek Time	9.5ms			
Rotational Speed	7,200 RPM			
Average Latency	4.17ms			
Buffer Size	16MB		64MB	

Power Requirements

Voltage	5V (+/- 5%)			
Spin up (start) Power	12V (+/-5%) @ 2.4A (peak)			
Read/Write Power	13 watts			
Low Power Idle	7 watts			
Standby Power	1.5 watts			

Physical Size

Dimensions (W) x (D) x (H)	101.6 mm (4.00 in) x 147 mm (5.79 in) x 26.1 mm (1.03 in)			
Weight	800 g (28.2 oz)			

Environmental

Temp - Operating	5° to 55°C (41° to 131°F)			
Temp - Non-Operating	-40° to 70°C (-40° to 158°F)			
Vibration - Operating	7.35 m/s ² (0.75G) (from 5 to 300Hz), 2.45 m/s ² (0.25G) (from 300 to 500Hz)			
Vibration - Non-Operating	49 m/s ² (5.0G) (from 5 to 500Hz)			
Shock - Operating	686 m/s ² (70G), 2ms			
Shock - Non-Operating	2,940 m/s ² (300G), 2ms			

Acoustics

Acoustics (idle)	30 dB			
Acoustics (seek)	34 dB			

Reliability

Mean Time Between Failure (MTBF)	1,200,000 hours			
Component Life	5 years POH			
Limited Warranty	5 years (from date of purchase)			

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¹One Terabyte (1TB) = 1,000 Gigabytes (GB). One Gigabyte (1GB) means 10⁹ = 1,000,000,000 bytes using powers of 10. 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 will also be less if the computer includes one or more pre-installed operating systems, pre-installed software applications, or media content. Actual formatted capacity may vary.

Subject to Change: While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice. Product image may represent design model.

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