

5,400 RPM 2.5-Inch SATA Hard Disk Drives

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*MKxx76GSXZ 24x7
Industrial Hard Drive*



MK2576GSXZ
MK5076GSXZ

The MKxx76GSXZ series is a specially engineered line of industrial-strength 2.5-inch hard disk drives for 'always-on', moderate transaction applications such as point-of-sale terminals, factory automation equipment, kiosks, robotics and surveillance systems. Toshiba uses premium-grade components and applies stringent build and test verification methods to produce the MKxx76GSXZ. This approach results in highly durable products that are designed to endure the demands of 24x7 operation and harsh industrial environments.

Available in 250 and 500GB¹ storage capacities, the MKxx76GSXZ uses a 5,400 RPM spin speed to provide solid performance and cool operation. The MKxx76GSXZ transfers data from the media at speeds of over 1,077 megabits-per-second, faster than other extended duty hard drives in the 2.5-inch form factor.

In addition to its enhanced durability and robust operation, the MKxx76GSXZ also provides an environmentally-sound solution for extreme computing applications. The MKxx76GSXZ joins Toshiba's line of storage products which have reduced levels or eliminated use of certain toxic, hazardous or controversial chemicals and materials² in the drive.

- Up to 500GB¹ Storage Capacity
- Specially Designed for Industrial Applications
- 5,400 RPM Rotational Speed
- 8MB Buffer
- MTTF of 600,000 Hours

Hard Drive

5,400 RPM

2.5-Inch SATA Hard Disk Drives

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Series Overview

	MK2576GSXZ	MK5076GSXZ
Drive Capacity	250GB ¹	500GB ¹
Drive Interface	Serial ATA, Revision 2.6 / ATA-8	
Number of Platters (disks)	1	2
Number of Data Heads	2	4
RoHS Compliant	Yes	
Sector Size (Bytes)	512	
Transfer Rate to Host	3GB/sec	

Performance

Track-to-track Seek	2ms
Average Seek Time	12ms
Rotational Speed	5,400 RPM
Average Latency	5.55ms
Buffer Size	8MB

Power Requirements

Voltage	5V (+/-5%)
Spin up (start) Power	4.5 watts (-20° to 85°C)
Seek Power	1.85 watts
Read/Write Power	1.5 watts
Low Power Idle	0.55 watts
Standby Power	0.18 watts
Sleep Power	0.15 watts

Physical Size

Dimensions (W) x (D) x (H)	69.85 mm (2.75 in) x 100.0 mm (3.94 in) x 9.5 mm (0.37 in)	
Weight	98 g (3.46 oz)	98 g (3.46 oz)

Environmental

Temp - Operating	5° to 55°C (41° to 131°F)
Temp - Non-Operating	-40° to 60°C (-40° to 140°F)
Vibration - Operating	9.8 m/s ² (1.0G) 5 to 500Hz
Vibration - Non-Operating	49.0 m/s ² (5.0G) 15 to 500Hz
Shock - Operating	3,920 m/s ² (400G) 2ms
Shock - Non-Operating	8,820 m/s ² (900G) 1ms

Acoustics

Acoustics (idle)	19 dB	25 dB
Acoustics (seek)	20 dB	25 dB

Limited Warranty

Limited Warranty	1 year (from date of purchase)
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¹One 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.

²Concentrations of chlorine and bromine are below 900 ppm for each substance, surpassing the IEC61249-2-21:2003 criteria set for printed circuit boards by the International Electrotechnical Commission (IEC), in applying the criteria to all components in the HDD. IEC is the leading

global organization that defines internationally-recognized standards for electrical, electronic and associated technologies.

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.

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