

5,400 RPM 2.5-Inch SATA Hard Disk Drives

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*Optimized for capacity
hungry portable and low-power
storage applications*



MK7559GSM
MK1059GSM

Toshiba couples portability with state-of-the-art technology in a new series of 2.5-inch, 5,400 RPM hard disk drives to deliver 750GB and 1TB* storage capacities in a 12.5mm-high package. The MKxx59GSM series of SATA drives target today's massive digital content needs with capacity points typically supported by larger form factor 3.5-inch drives.

New design elements of the MKxx59GSM series drive include Advanced Sector Format technology, which utilize the industry standard 4K byte-per-sector configuration and improved error-correcting code functionality to enhance data integrity while making more efficient use of the storage surface area. Furthermore, Toshiba's environmental initiatives including lower power consumption techniques and components that reduce reliance on harmful chemicals, materials and compounds are also represented in the MKxx59GSM design.

The MKxx59GSM series drive is designed to support strong growth segments for high-capacity storage purposes including external add-on storage and tape replacement products as well as, docking stations, gaming notebooks, mobile work stations and other capacity-hungry applications.

- Up to 1TB¹ of Storage Capacity
- 12.5-millimeter High Profile
- 1.5 and 3Gb/s Serial ATA, Revision 2.6 Interface
- 8MB Cache Buffer

Hard Drive

5,400 RPM

2.5-Inch SATA Hard Disk Drives

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Series Overview

	MK7559GSM	MK1059GSM
Drive Capacity	750GB ¹	1,000GB ¹
Drive Interface	Serial ATA 1.5 and 3 Gb/sec, Revision 2.6 / ATA-8	
Number of Platters (disks)	3	
Number of Data Heads	6	
RoHS Compliant	Yes	
Transfer Rate to Host	3 Gb/sec	

Performance

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

Power Requirements

Voltage	5V (+/- 5%)
Spin up (start) Power	4.5 watts
Seek Power	2.2 watts
Read/Write Power	1.7 watts
Low Power Idle	0.65 watts
Standby Power	0.18 watts
Sleep Power	0.15 watts

Physical Size

Dimensions (W) x (D) x (H)	69.85 mm (2.75") x 100.0 mm (3.94") x 12.5 mm (0.49")
Weight	148 g (5.22 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 500 Hz
Vibration - Non-Operating	49 m/s ² (5.0G) 15 to 500 Hz
Shock - Operating	3,920 m/s ² (400G) 2ms
Shock - Non-Operating	8,820 m/s ² (900G) 1ms

Acoustics

Acoustics (idle)	25 dB
Acoustics (seek)	25 dB

Limited Warranty

Limited Warranty	1 year (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. Product image may represent design model.

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