

# 5,400 RPM 2.5-Inch Hard Disk Drives

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*The 5,400 RPM hard disk drives  
provide high-capacity and energy-  
efficient solutions for a myriad  
of 2.5-inch applications*

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MK1665GSX  
MK2565GSX  
MK3265GSX  
MK5065GSX  
MK6465GSX

Toshiba's MKxx65GSX Series of 5,400 RPM hard disk drives (HDDs) provide high-capacity and energy-efficient solutions for a myriad of 2.5-inch applications as well as those traditionally served by larger form factor drives. Using a 320GB<sup>1</sup>-per-platter platform, the line spans capacity points from 160 to 640GB<sup>1</sup> across five different models.

Durability, mobility and power efficiency are combined with a design approach focused on enhancing the environmental soundness of the MKxx65GSX line by decreasing or eliminating the use of certain toxic, hazardous or controversial chemicals<sup>2</sup> in the drive. In addition, power consumption can be reduced by more than 80% with the MKxx65GSX over like-capacity 3.5-inch hard disk drives, making the MKxx65GSX ideal for notebook, all-in-one and EnergyStar<sup>®</sup> desktop PCs, printers, set top boxes, video surveillance systems, external storage devices and other computing applications.

- Up to 640GB<sup>1</sup> on 2 Platters
- 5,400 RPM Rotational Speed
- Eco-conscious Design
- Durable and Reliable
- 600,000 MTTF Hours

# Hard Drive

# 5,400 RPM

## 2.5-Inch Hard Disk Drives

### Series Overview

	MK1665GSX	MK2565GSX	MK3265GSX	MK5065GSX	MK6465GSX
Drive Capacity	160GB <sup>1</sup>	250GB <sup>1</sup>	320GB <sup>1</sup>	500GB <sup>1</sup>	640GB <sup>1</sup>
Drive Interface	Serial-ATA Revision 2.6 / ATA-8				
Number of Platters (disks)	1	1	1	2	2
Number of Data Heads	2	2	2	4	4
Transfer Rate to Host	3 Gb/sec				

### Performance

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

### Power Requirements

Voltage	5V (+/-5%)
Spin up (start) Power	4.5 watts
Seek Power	1.85 watts
Read/Write Power	1.5 watts
Active Idle Power	0.75 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") x 100 mm (3.94") x 9.5 mm (0.37")
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### 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 <sup>2</sup> (1.0G) 5 to 500 Hz
Vibration - Non-Operating	49 m/s <sup>2</sup> (5.0G) 15 to 500 Hz
Shock - Operating	3,920 m/s <sup>2</sup> (400G) 2ms
Shock - Non-Operating	8,820 m/s <sup>2</sup> (900G) 1ms

### Acoustics

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

### Limited Warranty

Limited Warranty	3 years (from date of purchase)
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<sup>1</sup>One Gigabyte (1 GB) means 10<sup>9</sup> = 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 1 GB = 2<sup>30</sup> = 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.

<sup>2</sup>Concentrations 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.

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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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