

## SATA 250/160/120GB 1.8-Inch Hard Disk Drives

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*Market-Leading Capacity*

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*High-Performance*

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*Durability*



MK2529GSG  
MK1629GSG  
MK1229GSG

Toshiba, the pioneer in small form factor hard disk drives (HDDs), continues to deliver innovative storage solutions with the addition of three new high-capacity, high-performance Serial ATA 1.8-inch HDDs. The MK\*\*29GSG family features the industry's first quarter-terabyte 1.8-inch HDD along with 120GB<sup>1</sup> and 160GB<sup>1</sup> capacity drives.

Combined with the new micro-SATA connector, Serial-ATA 3.0Gb/s interface and 5400 RPM spin speed, the MK\*\*29GSG family offers small and light-weight solutions, at increased data transfer rates for enhanced performance, in sub-notebook PCs.

- 1.8-inch Footprint With Up To A Quarter-Terabyte (250 GB<sup>1</sup>) Of Capacity
- 5400 RPM Spin Speed
- Host Transfer Rate Up To 3.0 Gb/s
- Serial ATA 2.6 / ATA-8 Interface
- Micro-SATA Connector
- 8MB Cache Buffer

# Hard Drive

# SATA 250/160/120GB

## 1.8-Inch Hard Disk Drives



**TOSHIBA**  
Leading Innovation >>>

### Specifications

		MK2529GSG (HDD1F07)	MK1629GSG (HDD1F08)	MK1229GSG (HDD1F09)
Series Overview	Interface	SATA 3.0Gb/s Serial ATA 2.6	SATA 3.0Gb/s Serial ATA 2.6	SATA 3.0Gb/s Serial ATA 2.6
	Capacity	250GB <sup>2</sup>	160GB <sup>1</sup>	120GB <sup>1</sup>
	Number of Platters	2	2	1
	Number of Data Heads	4	4	2
	RoHS Compatible <sup>2</sup>	Y	Y	Y
Performance	Max Transfer Rate to Host	1.5Gb/s	1.5Gb/s	
	Media Transfer Rate (max)	599.5 Mbits/sec	599.5 Mbits/sec	599.5 Mbits/sec
	Rotational Speed	5400rpm	5400rpm	5400rpm
	Average Latency	5.55	5.55	5.55
	Buffer <sup>3</sup>	8MB	8MB	8MB
	Track-to-track Seek Time	3ms	3ms	3ms
	Average Seek Time	15ms	15ms	15ms
	Load/Unload Cycles	600,000	600,000	600,000
Power Requirements	Voltage	3.3V ± 5%	3.3V ± 5%	3.3V ± 5%
	Energy Consumption Efficiency <sup>4</sup>	0.0016W/GB	0.0025W/GB	0.0030W/GB
	Spin-up	2.5watts	2.5watts	2.5watts
	Seeking	1.2watts	1.2watts	1.2watts
	Reading	1.2watts	1.2watts	1.2watts
	Writing	1.2watts	1.2watts	1.2watts
	Active Idle	0.50watts	0.50watts	0.50watts
	Low Power Idle	0.40watts	0.40watts	0.40watts
	Stand-by	0.18watts	0.18watts	0.18watts
	Sleep	0.13watts	0.13watts	0.13watts
Dimensions/Weight	Height	0.31" (8mm)	0.31" (8mm)	0.31" (8mm)
	Width	2.13" (54mm)	2.13" (54mm)	2.13" (54mm)
	Depth	3.09" (78.5mm)	3.09" (78.5mm)	3.09" (78.5mm)
	Weight	2.19 Oz (62g)	2.19 oz (62g)	2.12 oz (60g)
Environmental	Operating Temperature	41 - 131°F (5 to 55°)	41 - 131°F (5 to 55°)	41 - 131°F (5 to 55°)
	Non-Operating Temperature	-4 - 148°F (-20 to 65°)	-4 - 148°F (-20 to 65°)	-4 - 148°F (-20 to 65°)
	Operating Humidity	8 - 90% R.H.	8 - 90% R.H.	8 - 90% R.H.
	Non-Operating Humidity	8 - 90% R.H.	8 - 90% R.H.	8 - 90% R.H.
	Operating Vibration	2.0G (15-500 Hz)	2.0G (15-500 Hz)	2.0G (15-500 Hz)
	Non-Operating Vibration	5.0G (15-500 Hz)	5.0G (15-500 Hz)	5.0G (15-500 Hz)
	Operating Shock	500G/2.0ms	500G/2.0ms	500G/2.0ms
	Non-Operating Shock	1,500G/1.0ms	1,500G/1.0ms	1,500G/1.0ms
Acoustics	Idle Mode (Average)	1.8Bels	1.8Bels	1.6Bels
	Seek Mode (Average)	2.3Bels	2.3Bels	2.2Bels

- One Gigabyte (1 GB) means  $10^9 = 1,000,000,000$  bytes using powers of 10. A computer operating system, however, reports storage capacity using powers of 2 for the definition of  $1 \text{ GB} = 2^{30} = 1,073,741,824$  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.
- RoHS Compatible: This product is compatible with European Union Directive 2002/95/EC. Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS), which restricts use of lead, cadmium, mercury, hexavalent chromium, PBB, and PBDE.
- Buffer space available to the user.
- Energy consumption efficiency is calculated based on power consumption divided by formatted capacity, as defined by Japanese law.

*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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