

MK**17GSG Series

TOSHIBA
Leading Innovation >>>

Market-Leading Capacity

High-Performance

Durability



Serial ATA 160/80GB
1.8-Inch Hard Disk Drives

The Industry's Highest-Capacity SATA 1.8-Inch HDDs

Toshiba, the pioneer in small form factor hard disk drives (HDDs), continues to deliver innovative storage solutions with the industry's highest-capacity series of SATA 1.8-inch HDDs.

The new 5400RPM HDDs come in single-platter 80GB and dual-platter 160GB models, which deliver market-leading capacity, high-performance and durability in compact packages for space-efficient mobile PC systems.

The storage capacities offered by the MK**17GSG series mirror those of larger form factor HDDs, while reducing the storage footprint by nearly 40 percent. Combined with the new micro-SATA connector, Serial-ATA 1.5Gb/s interface and 5400

RPM spin speed, the MK**176GSG series 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 160 Gigabytes of Capacity
- 5400 RPM Spin Speed
- Host Transfer Rate up to 1.5 Gb/s
- Serial ATA 2.6 / ATA-8 Interface
- Micro-SATA Connector
- 8MB Cache Buffer For User Data
- 571 Megabit per Second Media Transfer Rate
- Ultra-Lightweight One and Two Platter Design

Hard Drive

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Specifications

		MK1617GSG (HDD1F04)	MK8017GSG (HDD1F05)
Series Overview	Interface	SATA 1.5Gb/s Serial ATA 2.6 / AT	SATA 1.5Gb/s Serial ATA 2.6
	Capacity*	160GB	160GB
	Number of Platters	2	2
	Number of Data Heads	4	4
	Areal Density (max)	246.8 Gbits/sq. in.	246.8 Gbits/sq. inch
Data Transfer Rate	Max Transfer Rate to Host	1.5Gbps	1.5Gbps
	Media Transfer Rate (max)	571 Mbist/sec	571 Mbist/sec
Seek Time	Track-to-track	3ms	3ms
	Average	15ms	15ms
	Maximum	26ms	26ms
Nominal Power Requirements	Voltage	3.3V +/- 5%	3.3V +/- 5%
	Energy Consumption Efficiency	0.0028W/GB	0.0056W/GB
	Spin-up	2.5	2.5
	Seeking	1.4	1.4
	Reading	1.4	1.4
	Writing	1.4	1.4
	Active Idle	0.55	0.55
	Low Power Idle	0.45	0.45
	Standby	0.15	0.15
	Sleep	0.10	0.10
Performance	Rotational Speed	5400rpm	5400rpm
	Average Latency	5.55	5.55
	Buffer	8MB	8MB
Dimensions/Weight	Height	0.31" (8mm)	0.31" (8mm)
	Width	2.13" (54mm)	2.13" (54mm)
	Depth	3.09" (78.5mm)	3.09" (78.5mm)
	Weight	2.19 oz (62g)	2.12oz (60g)
Ambient Temperature	Operating	41° - 131°F (5° to	41° - 131°F (5° to
	Non-Operating	-4° - 149°F (-20°	-4° - 149°F (-20° to
Vibration and Shock	Operating Vibration	2.0G (15-500 Hz)	2.0G (15-500 Hz)
	Operating Shock	500G/2.0ms	500G/2.0ms
	Non-Operating Shock	1,500G/1.0ms	1,500G/1.0ms
Acoustics (Sound Power)	Idle Mode (Average)	1.8Bels	1.6Bels
	Seek Mode (Average)	2.3Bels	2.2Bels
Error Rates	Non-recoverable	1 in 10 ¹⁴ bits	1 in 10 ¹⁴ bits
Other	Preventive Maintenance	None	None
	Load/Unload Cycles	600,000	600,000
	Product Life	5 years or 20,000	5 years or 20,000

*One Gigabyte (1 GB) 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 1 GB = 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.

**Buffer space available to the user.

***S-ATA power management features applied.

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