

## Discover Storage

# MK4032GSX MK6032GSX 40/60 GB 2.5-inch HDD

### Benefits:

- High capacity in smallest size
- High reliability
- Low power consumption
- SATA Interface
- 150MBps transfer rate



By using Toshiba's updated Hard disk drive technology, this Toshiba 40/60 GB 2.5-inch hard disk drive with SATA interface is a highly advanced product.

Serial ATA or SATA is an evolution of the parallel ATA (PATA, also known as IDE) physical storage interface.

Physically, the cables used are the most noticeable change from PATA. The SATA standard defines a data cable using seven lines with a max. length up to 1 meter.

Furthermore the data cable is thinner and facilitates more efficient airflow inside a form factor and also allows for smaller chassis designs.

Another advantage of SATA is low power consumption due to a reduced voltage of the signal lines (0.25V).

This HDD is so the best solution for small Notebooks and small consumer electronics products.

Toshiba Storage Device Division leads the market in the development, design and manufacturing of DVD-RAM, DVD-writer, DVD-ROM, Combination drives and PC Card & mobile 0.85-inch, 1.8-inch and 2.5-inch hard disk drives.

SDD markets high-quality peripherals to original equipment manufacturers, value-added resellers, value-added dealers, system integrators and distributors in Europe. Inherent in the company's product line is high-quality engineering and

### Features:

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### Data Storage Capacity:

Per Drive, Formatted	40 GB	60 GB
Number of Platters	1	2
Number of Heads	2	3
Bytes/Sector	512	

### Seek Time

Track-to-Track	2 ms
Average	12 ms
Maximum	22 ms
Rotational Speed	5,400 rpm

### Interface

Type	SATA
Transfer Rate	150 MB/sec.
Buffer memory	8,192 KB

### Nominal Power Requirements

Voltage Supply	5 V	
Sleep (Watts)	0.15 W	
Standby (Watts)	0.25 W	
Read (Watts)	2.0 W	
Write (Watts)	2.0 W	
Seeking (Watts)	2.4 W	2.5 W

### Dimensions :

Height		9.5 mm
Width		69.85 mm
Depth		100 mm
Weight	97 g	101 g

### Physical & Environmental Specifications

Temperature Operating	From 5 to 55°C	
Temperature Non-Op.	From -20 to 60°C	
Vibration-Operating	1G, with 5-500 Hz	
Vibration Non-operating	5G, with 15-500 Hz	
Shock-operation	325 G	
Shock-Non operation	850 G	
Accoustic Noise (seek)	26 dB	28 dB
Altitude/operation	-300 to 3000 m	

### Reliability Characteristics

MTBF	300,000 Hours
Product life	5 years or 20,000 power on hours

### Error Rates

Unrecoverable	1 error per 10 <sup>13</sup> bits read
Seek	1 error per 10 <sup>6</sup> seeks

### Applications:

- Notebook systems
- External storage
- Multi-media