

## Discover Storage

# MK4025GAS

## 40GB

### 2.5-inch HDD

#### Benefits:

Lightweight  
Ramp Load Technology  
Large Data Buffer  
40GB per Platter Technology at 9.5mm  
Non-operating Shock 800G  
Low Power Consumption  
Improved Noise Reduction Technology



The MK4025GAS is a 2.5 inch embedded hard disk drive for advanced mobile computing and sophisticated multi-media applications. The drive features Toshiba's premier 40GB per platter technology (1 platter, 2 heads) making it one of the most advanced HDD available in this form factor.

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 manufacturing which has established Toshiba products as worldwide leaders.

#### Features:

##### Data Storage Capacity:

Per Drive, Formatted	40.007 GB
Number of Platters	1
Number of Heads	2
Bytes/Sector	512

##### Seek Time

Track-to-Track	2 ms
Average	12 ms
Maximum	22 ms
Rotational Speed	4,200 rpm

##### Interface

Type	ATAPI/IDE
Transfer Rate	UDMA 100
Buffer memory	8,192 KB

##### Nominal Power Requirements

Voltage Supply	5 V
Sleep (Watts)	0.1 W
Standby (Watts)	0.25 W
Read (Watts)	2.3 W
Write (Watts)	2.3 W
Seeking (Watts)	2.6 W

##### Dimensions :

Height	9.5 mm
Width	69.85 mm
Depth	100 mm
Weight	94 g

##### Physical & Environmental Specifications

Temperature Operating	From 5 to 55°C
Temperature Non-Op.	From -20 to 60°C
Vibration-Operating	1G, with 5-500Hz
Vibration Non-operating	5G, with 10-500 Hz
Shock-operation	200 G
Shock-Non operation	800 G
Accoustic Noise (seek)	31dB
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

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