

## Hitachi Travelstar™ C4K60 Slim

### HARD DISK DRIVES



60GB, 40GB, 30GB and 20GB | 4200 RPM | ATA-7

New slim-line design for the sleekest consumer electronics devices

#### Highlights

- > New 5mm z-height
- > 30GB/platter with 1 & 2 disk models
- > Lightest 1.8" hard drive
- > Low power consumption
- > 20% higher operating shock tolerance
- > High shock tolerance for all-terrain usage

#### Applications

- > Digital video camera (DVC)
- > Portable digital audio (MP3)
- > Portable digital video (PMP)
- > Handheld navigation (GPS)
- > Other handheld applications

#### C4K60 Slim – lightens the load for handheld devices

Hitachi delivers more in less with the Travelstar C4K60 Slim, a third generation 4200 rpm, 1.8-inch hard disk drive. At just 5mm high and featuring a ZIF connector, the drive meets the exacting demands of sleek consumer electronic devices. Travelstar C4K60 Slim offers 30GB per platter, with a maximum capacity of 60GB. The 1-disk model measures a slim 5mm and is available in 20GB and 30GB capacities. The 2-disk model, available in 40GB and 60GB capacities, has a thickness of 8mm. New design enhancements include the use of femto sliders and other component changes to deliver reduced

#### Features and benefits

	Feature / Function	Benefits
Capacity	Up to 60GB capacity 40GB, 30GB, 20GB also available	* Up to 30,000 songs or 15 hours of MPEG-2 / 48 hours of MPEG-4 video Range of capacities for broad device support
Size	ZIF Connector (54 x 71 x 5.0 mm, 46g) (54 x 71 x 8.0 mm, 57g)	Lightest design for sleekest devices 1-disk models, 20GB or 30GB 2-disk models, 40GB or 60GB
Reliability	600G operating shock 1500G non-operating shock	20% improvement allows for tougher handling and improved portability
Power	Femto slider and new motor driver	Low power for longer battery life
Acoustics	Fluid Dynamic Bearing Motors (FDB) Optimized seek control	Quiet operation

\*Actual storage may vary depending on the compression rate applied.

power consumption and improved shock tolerance. The increased capacity along with the ZIF connector, longer battery life and greater ruggedness, make the Travelstar C4K60 Slim the featherweight champion of storage-intensive, on-the-go devices.

#### Slim-line packaging for consumer electronics

Travelstar C4K60 Slim is the second generation Hitachi 1.8-inch hard drive with the ZIF connector. That, along with the new lower 5mm profile of the 1-disk model, makes C4K60 Slim the ideal choice for sleek CE devices. Hitachi provides manufacturers with the broadest range of options – size, capacity and interface – and delivers improved shock, power and performance.

#### Hitachi quality and service

The Hitachi Travelstar family of mobile hard drives is designed to the highest quality standards and contains field-proven components. Hitachi provides worldwide technical support and offers integration services to enable global customers to bring their products to market quickly.

# Hitachi Travelstar C4K60 Slim

**Product**  
**Model names**

Travelstar C4K60  
HTC426060G8CE00 / HTC426040G8CE00  
HTC426030G5CE00 / HTC426020G5CE00

## Specifications

### Configuration

Interface	ATA-7
Capacity (GB) <sup>1</sup>	60 / 40 / 30 / 20
Sector size (Bytes)	512
Data heads (physical)	4 / 4 / 2 / 2
Data disks	2 / 2 / 1 / 1

### Performance

Data buffer (MB) <sup>2</sup>	2
Rotational speed (RPM)	4200
Latency average (ms)	7.1
Interface transfer rate (MB/sec, max)	100 Ultra DMA mode-5
PIO	16.6 PIO mode-4
Seek time (read, average) (ms)	15

### Reliability

Error rate (non-recoverable)	< 1 per 1.0 E 13 bits transferred
Load/Unload cycle	600,000

### Power

Requirement	3.3 VDC (+/- 5%)
Start up (max)	1.4W
Read (average)	1.0W
Write (average)	1.0W
Active idle (average)	0.4W
Low power idle (average)	0.08W

### Physical Size

Height (mm)	8.0 / 8.0 / 5.0 / 5.0
Width (mm)	54
Depth (mm)	71
Weight - typical (g)	57 / 57 / 46 / 46

### Environmental Characteristics

Operating shock (half-sine wave)	600G/2ms
Non-operating shock (half-sine wave)	1500G/1ms
RoHS compliant <sup>3</sup>	yes

### Acoustics (A-Weighted Sound Power (Bels))

Idle (typical)	1.8 / 1.8 / 1.6 / 1.6
Seek (typical)	2.4 / 2.4 / 2.2 / 2.2

<sup>1</sup> GB equals one billion bytes when referring to hard drive capacity; accessible capacity may be less  
<sup>2</sup> Upper 128KB reserved for firmware  
<sup>3</sup> RoHS refers to the European Union Directive 2002/95/EC on the restriction of certain hazardous substances in electrical and electronic equipment.

## Hitachi Global Storage Technologies



### How to read the Travelstar model number

HTC426030G5CE00 = 30GB

H = Hitachi  
T = Travelstar  
C = Compact  
42 = 4200 RPM  
60 = Full capacity - 60GB  
30 = Capacity this model - 30GB (60 = 60GB, 40 = 40GB, 20 = 20GB)  
G = Generation code  
7 = 5mm z - height (8 = 8mm z - height)  
CE = CE interface connector (ZIF type)  
0 = Revision code  
0 = Reserved

### For more information:

Internet:

- > [www.hitachigst.com](http://www.hitachigst.com) (Main Web site)
- > [www.hitachigst.com/vpp](http://www.hitachigst.com/vpp) (Reseller Web site)

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