HGST
a Western Digital brand

Travelstar® Z7K500.B

Highlights

- 500GB[1] of capacity
- 7mm z-height, 2.5-inch form factor
- 7200 RPM performance
- Advanced Format, industry standard 4K sector size
- 512-byte emulation
- 6Gb/s SATA interface

Applications/ Environments

- Notebook and ultra-portable PCs
- Compact desktop PCs
- External storage
- Gaming consoles

High-Performance 500GB for Mobile Applications

Designed with affordable performance in mind, the Travelstar® Z7K500.B delivers the right mix of capacity and speed for thin and light mobile applications. This 7mm 2.5-inch mobile drive is offered with 500GB of capacity points and supports slim mobile system designs, but is also compatible with most standard 9.5mm bays. With an operational speed of 7200 RPM, the Z7K500.B is a perfect mainstream storage choice for mobile devices, external storage and gaming consoles.

Innovations to Support Mobile Storage

In a notebook drive, silence is golden. Noise reducing technologies in the Travelstar Z7K500.B make it one of the quietest mobile drives on the market. State-of-the-art seeking algorithms and advanced power management features ensure low power consumption for longer battery life and more "unplugged" time on your portable device. When you need capacity and performance, trust your data to Travelstar hard drives, designed for mobile computing.

HGST Quality and Service

HGST's mobile hard drives are designed to high quality standards and contain field-proven components. HGST provides worldwide technical support and integration services to enable global customers to bring their products to market quickly.

500GB
7200 RPM | SATA 6Gb/s

Features and Benefits

	Feature / Function	Benefits
Capacity	500GB storage	Store up to 125,000 songs, 125 hours of SD video, 20 hours of Full HD, or 15 games*
Form Factor	2.5-inch HDD with slim 7mm thickness	Compact size supports portable designs for mobile computing
Reliability	• 400G operating shock • 1000G non-operating shock	Helps provide protection against rough handling in a mobile environment
Acoustics	Quiet operation	Richer audio-listening experience for music, movies and games
Performance	Up to 1304Mb/s media transfer rate	Fast downloads and excellent application performance
Interface	SATA 6Gb/s	Fast data throughout

* Capacities may not be combined. Number of songs are based on MP3 format for 4 minutes per song, 128 kbps bit rate and 11:1 compression ratio. SD video based on 480i/24 and H.264 compression (~3.6GB/hr). HD video based on 1080p/24 and H.264 compression (~25GB/hr). Games based on 30GB install size. Actual storage may vary depending on compression, bit rates, frame rates and system software installation.

HGST
a Western Digital brand

Travelstar® Z7K500.B

Specifications

Model / Part No.	HTS725050B7E630 / 1W10098

Configuration

Interface	SATA 6Gb/s
Capacity (GB) [1]	500
Sector size (bytes) [2]	512e

Performance

Data buffer (MB) [3]	32
Rotational speed (RPM)	7200
Sustained data transfer rate (MB/s)	163
Media transfer rate (Mbits/s, max)	1304
Latency average (ms)	4.2
Interface transfer rate (MB/s)	600
Seek time, average (typical) ms (read) [4]	12

Reliability

Load/Unload cycle	600,000

Power

Requirement	+5VDC (+-5%)
Dissipation (typical)	
Startup (W, peak, max)	5.5
Seek (W, avg.)	2.1
Read/Write (W, avg.)	2.0
Low power idle (W, avg.)	0.85
Standby (W, avg.)	0.25
Sleep	0.25

Physical size

Height (mm, max)	7
Width (mm)	69.85 (+/- 0.25)
Length (mm)	100.20 (+/- 0.25)
Weight (typical, g)	92

Environmental (operating)

Shock (half-sine wave)	400G/2ms
Ambient temperature	0° to 60° C

Environmental (non-operating)

Shock (half-sine wave)	1000G/2 ms
Ambient temperature	-40° to 65° C

Acoustics (A-weighted sound power)

Idle (typical, Bels)	2.3
Seek (typical, Bels)	2.5

How to read the Travelstar model number

HTS725050A7E630 = 500GB, SATA 6Gb/s

H = HGST
T = Travelstar
S = Standard
72 = 7200 RPM
50 = Full capacity — 500GB
50 = Capacity this model, 50 = 500GB
B = Generation code
7 = 7mm z-height
E6 = SATA 6Gb/s with 512 emulation
3 = 32MB cache
0 = No encryption

[1] One GB is equal to one billion bytes when referring to hard drive capacity. Accessible capacity will vary depending on the operating environment and formatting.
[2] Advanced Format drive: 4K physical sectors with 512 byte emulation
[3] Portion of buffer used for firmware
[4] Excludes command overhead

Information & Technical Support

www.hgst.com
www.hgst.com/support

Partners First Program

channelpartners@hgst.com
www.hgst.com/partners