Travelstar® Z5K500.B

Highlights

- 500GB[1] of capacity on a single disk
- Advanced Format, industry standard 4K sector size
- 512 byte emulation
- 6Gb/s SATA interface
- Low power consumption
- Halogen-free for eco-friendly design

Applications/ Environments

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

Slim Design and Power Efficiency for a Better Mobile Experience

Ideal for use as primary storage in notebooks and external enclosures, the Travelstar® Z5K500.B delivers the right mix of capacity, performance and low power consumption in thin and light mobile applications. This 7mm 2.5-inch mobile drive supports slim mobile system designs, and is also compatible with most standard 9.5mm bays. A roomy 500GB of storage capacity holds ample amounts of photos, videos and files. With an operational speed of 5400 RPM, the Z5K500.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 Z5K500.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 energy efficiency, trust your data to Travelstar hard drives, designed for mobile computing.

Features and Benefits

	Feature / Function	Benefits
Capacity	Up to 500GB storage	Up to 125 hours of high-definition video, 500 hours of standard video, 178 movies, 125,000 4-min songs or 250 games*
Power	• 1.4W read/write power • 0.55W low power idle	Low energy use to help improve battery life for more "unplugged" notebook time
Reliability	• 400G operating shock • 1000G non-operating shock	Strong protection against bumps and rough handling
Acoustics	Quiet acoustics	Richer audio-listening experience for music, movies and games
Performance	Up to 1176Mb/s media transfer rate	Fast downloads and excellent application performance**
Interface	SATA 6Gb/s	Fast data throughput

* Actual storage may vary depending on the compression rate applied. Capacities may not be combined.
**In PCMark® Vantage testing

500GB | 5400 RPM | SATA 6Gb/s

Travelstar® Z5K500.B

Specifications

Model / Part No.	HTS545050B7E660 / 1W10013

Configuration

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

Performance

Data buffer (MB)[3]	16
Rotational speed (RPM)	5400
Latency average (ms)	5.5
Media transfer rate (max, Mbits/sec)	1176
Interface transfer rate (MB/sec)	600
Seek time, Average (typical) ms (read)[4]	11

Reliability

Load/Unload cycle	600,000

Power

Requirement	+5VDC (+-5%)
Dissipation (typical)	
Startup (W, peak, max)	5.0
Seek, (W, avg.)	1.6
Read/Write, (W, avg.)	1.4
Low power idle, (W, avg.)	0.55
Standby, (W, avg.)	0.16
Sleep	0.16

Physical size

Height (max, mm)	7
Dimensions (width x depth, mm)	70 x 100
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)	1.7
Seek (typical, Bels)	2.2

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.

How to read the Travelstar model number

HTS545050B7E660 = 500GB, SATA 6Gb/s
H   = HGST
T   = Travelstar
S   = Standard
54 = 5400 RPM
50 = Full capacity — 500GB
50 = Capacity this model, 50 = 500GB
B   = Generation code
7   = 7mm z-height
E6 = SATA interface
       6Gb/s with 512 emulation
6   = 6MB cache
O   = 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

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