Travelstar[®] Z5K500.B

Highlights

- 500GB¹ 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.



500GB | 5400 RPM | SATA 6Gb/s

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

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Specifications

Model / Part No.	HTS545050B7E660 / 1W10013	HGST Quality and Server
Configuration		- HGST's mobile hard drives
Interface	SATA 6Gb/s	are designed to high quality
Capacity (GB) ¹	500	e e , ,
Sector size (bytes) ²	512e	standards and contain field
Performance		 components. HGST provide
Data buffer (MB) ³	16	worldwide technical suppor
Rotational speed (RPM)	5400	integration services to enab
Latency average (ms)	5.5	0
Media transfer rate (max, Mbits/sec)	1176	customers to bring their pro
Interface transfer rate (MB/sec)	600	market quickly.
Seek time, Average (typical) ms (read) ⁴	11	 How to read the Travelstar model number
Reliability		
Load/Unload cycle	600,000	HTS545050B7E660 = 500GB, SATA 6Gb/s H = HGST
Power		T = Travelstar
Requirement	+5VDC (+-5%)	 S = Standard 54 = 5400 RPM
Dissipation (typical)		50 = Full capacity — 500GB
Startup (W, peak, max)	5.0	50 = Capacity this model, 50 = 500GB
Seek, (W, avg.)	1.6	B = Generation code 7 = 7mm z-height
Read/Write, (W, avg.)	1.4	- E6 = SATA interface
Low power idle, (W, avg.)	0.55	- 6Gb/s with 512 emulation 6 = 6MB cache
Standby, (W, avg.)	0.16	0 = No encryption
Sleep	0.16	_
Physical size		¹ One GB is equal to one billion bytes when referring drive capacity. Accessible capacity will vary depend
Height (max, mm)	7	 operating environment and formatting.
Dimensions (width x depth, mm)	70 x 100	² Advanced Format drive: 4K physical sectors with 51
Weight (typical, g)	92	emulation ^a Portion of buffer used for firmware
Environmental (operating)		⁴ Excludes command overhead
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

s mobile hard drives signed to high quality ards and contain field-proven onents. HGST provides vide technical support and ation services to enable global ners to bring their products to quickly.

ad the Travelstar model number

н - нозт
T = Travelstar
 S = Standard
 54 = 5400 RPM
50 = Full capacity — 500GB
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 E6 = SATA interface
 6Gb/s with 512 emulation
6 = 6MB cache
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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
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 ⁴ Excludes command overhead

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