

Client HDD (2.5-inch)

MK7559GSXP / MK6459GSXP / MK5059GSXP / MK3259GSXP

	MK7559GSXP	MK6459GSXP	MK5059GSXP	MK3259GSXP
Basic Specifications				
Interface	Serial ATA 2.6 / ATA8			
Interface Speed	3.0 Gbit/s			
Formatted Capacity	750 GB	640 GB	500 GB	320 GB
Logical Data Block Length (HOST)	512 B			
Logical Data Block Length (DISK)	4,096 B			
Environmental Compliance	RoHS Compatible			
Performances				
Buffer Size	8 MiB			
Rotation Speed	5,400 rpm			
Average Latency Time	5.55 ms			
Reliability				
Unrecoverable Error Rate	1 per 10 ¹⁴ bits read			
Power Requirements				
Supply Voltage	5 V ±5%			
Power Consumption (Read / Write)	1.5 W Typ.			
Power Consumption (Low Power Idle)	0.55 W Typ.			
Dimensions				
Height	9.5 mm			
Width	69.85 mm			
Depth	100.0 mm			
Weight	101 g Typ.			97 g Typ.
Environmental Requirements				
Temperature (Operating)	5 to 55°C			
Temperature (Non-operating)	-40 to 60°C			
Humidity (Operating)	8 to 90 % R.H.			
Humidity (Non-operating)	8 to 90 % R.H.			
Altitude (Operating)	-300 to 3,000 m			
Altitude (Non-operating)	-300 to 12,000 m			
Vibration (Operating)	9.8 m/s ² { 1.0 G } (5 to 500 Hz)			
Vibration (Non-operating)	49 m/s ² { 5.0 G } (15 to 500 Hz)			
Shock (Operating)	3,920 m/s ² { 400 G } (2 ms half sine)			
Shock (Non-operating)	8,820 m/s ² { 900 G } (1 ms half sine)			
Acoustics				
Idle	25 dB			19 dB
Seek	25 dB			20 dB

► Definition of capacity: Toshiba defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2³⁰ = 1,073,741,824 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

► A kibibyte (KiB) means 2¹⁰, or 1,024 bytes, a mebibyte (MiB) means 2²⁰, or 1,048,576 bytes, and a gibibyte (GiB) means 2³⁰, or 1,073,471,824 bytes.

► Toshiba Semiconductor & Storage Products Company defines "RoHS-Compatible" products as products that either (i) contain no more than a maximum concentration value of 0.1% by weight in Homogeneous Materials for lead, mercury, hexavalent chromium, polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs) and of 0.01% by weight in Homogeneous Materials for cadmium; or (ii) fall within any of the application exemptions set forth in the Annex to the RoHS Directive. "Homogeneous Material" means a material of uniform composition that cannot be mechanically disjointed (meaning separated, in principle, by mechanical actions such as unscrewing, cutting, crushing, grinding and/or abrasive processes) into different materials. Examples of "Homogeneous Materials" would be individual types of plastics, ceramics, glass, metals, alloys, paper, board, resins and coatings.

► Read and write speed may vary depending on the host device, read and write conditions, and file size.

► "2.5-inch" and "3.5-inch" mean the form factor of HDDs or SSDs. They do not indicate drive's physical size.