

Client SSD

HG5d Series

		2.5-inch Case (9.5 mm Height)	2.5-inch Case (7.0 mm Height)	mSATA Module
Basic Specifications				
Model Number	512 GB	THNSNH512GBST	THNSNH512GCST	-
	256 GB	THNSNH256GBST	THNSNH256GCST	THNSNH256GMCT
	128 GB	THNSNH128GBST	THNSNH128GCST	THNSNH128GMCT
	60 GB	THNSNH060GBST	THNSNH060GCST	THNSNH060GMCT
Connector Type		Standard SATA	Standard SATA	mSATA
Interface		ACS-2, SATA revision 3.1		
Interface Speed		6.0 Gbit/s Max		
Memory Type		Toshiba MLC NAND flash memory		
Sequential Read		Up to 534 MB/s { 510 MiB/s }		
Sequential Write		Up to 482 MB/s { 460 MiB/s }		
Reliability				
MTTF		1,500,000 hours		
Power Requirements				
Supply Voltage		5.0 V ±5 %		3.3 V ±5 %
Power Consumption (Active)		3.3 W Typ.		2.7 W Typ.
Power Consumption (Idle)		65 mW Typ.		60 mW Typ.
Dimensions				
Height		9.5 mm	7.0 mm	3.95 mm
Width		69.85 mm		30.0 mm
Depth		100.0 mm		50.95 mm
Weight		51 to 55 g Typ.	49 to 53 g Typ.	7.5 to 7.8 g Typ.
Environmental Requirements				
Temperature (Operating)		0 to 70 °C (Case Temperature)		0 to 80 °C (Components Temperature)
Temperature (Non-operating)		-40 to 85 °C		
Vibration (Operating / Non-operating)		196 m/s ² { 20 G } (Peak, 10 to 2,000 Hz)		
Shock (Operating)		14.7 km/s ² { 1500 G } (0.5 ms)		
More Features		<ul style="list-style-type: none"> • Translation mode which enables any drive configuration • 28 -bit LBA mode commands and 48 bit LBA mode commands and 48bit LBA mode commands support • Multi word DMA Ultra-DMA DMA, Advanced PIO mode • Automatic retries and corrections for read errors 		

▶ 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 1,073,741,824 bytes.

▶ MTTF (Mean Time to Failure) is not a guarantee or estimate of product life; it is a statistical value related to mean failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTTF.

▶ 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.