

## Client SSD

### HG5 Series

		2.5-inch Case ( 9.5 mm Height )	2.5-inch Case ( 7.0 mm Height )	mSATA Module
<b>Basic Specifications</b>				
Model Number	512 GB	THNSNF512GBSS	THNSNF512GCSS	-
	256 GB	THNSNF256GBSS	THNSNF256GCSS	THNSNF256GMCS
	128 GB	THNSNF128GBSS	THNSNF128GCSS	THNSNF128GMCS
	60 GB	THNSNF060GBSS	THNSNF060GCSS	THNSNF060GMCS
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 }		
<b>Reliability</b>				
MTTF		1,500,000 hours		
<b>Power Requirements</b>				
Supply Voltage		5.0 V $\pm$ 5 %		3.3 V $\pm$ 5 %
Power Consumption ( Active )		3.3 W Typ.		2.7 W Typ.
Power Consumption ( Idle )		65 mW Typ.		60 mW Typ.
<b>Dimensions</b>				
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.
<b>Environmental Requirements</b>				
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 <sup>2</sup> { 20 G } ( Peak, 10 to 2,000 Hz )		
Shock ( Operating )		14.7 km/s <sup>2</sup> { 1500 G } ( 0.5 ms )		
More Features		<ul style="list-style-type: none"> <li>• Translation mode which enables any drive configuration</li> <li>• 28-bit LBA mode commands and 48-bit LBA mode commands support</li> <li>• Multi word DMA, Ultra-DMA, Advanced PIO mode</li> <li>• Automatic retries and corrections for read errors</li> </ul>		

► 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 = 2<sup>30</sup> = 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 2<sup>10</sup>, or 1,024 bytes, a mebibyte (MiB) means 2<sup>20</sup>, or 1,048,576 bytes, and a gibibyte (GiB) means 2<sup>30</sup>, or 1,073,471,824 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.