

## Client SSD

### SG2 Series

		Half Slim Module	Mini SATA module	2.5-inch Case ( 9.5 mm Height )
<b>Basic Specifications</b>				
Model Number	128 GB	THNSNB128GMSJ	THNSNB128GMCJ	-
	62 GB	THNSNB062GMSJ	THNSNB062GMCJ	THNSNB062GBSJ
	30 GB	THNSNB030GMSJ	THNSNB030GMCJ	THNSNB030GBSJ
Connector Type		Standard SATA	mSATA	Standard SATA
Interface		ACS-2, SATA revision 2.6		
Interface Speed		3.0 Gbit/s Max		
Memory Type		Toshiba MLC NAND flash memory		
Sequential Read		Up to 180 MB/s { 170 MiB/s }		
Sequential Write		Up to 50 MB/s { 47 MiB/s }		
<b>Reliability</b>				
MTTF		1,000,000 hours		
<b>Power Requirements</b>				
Supply Voltage		5.0 V $\pm$ 5 %	3.3 V $\pm$ 5 %	5.0 V $\pm$ 5 %
Power Consumption ( Active )		1.9 W Typ.	1.8 W Typ.	
Power Consumption ( Idle )		55 mW Typ.		
<b>Dimensions</b>				
Height		4 mm	3.95 mm	9.5 mm
Width		54 mm	30 mm	69.85 mm
Depth		39 mm	50.95 mm	100.0 mm
Weight		9.2 g Typ.	8.5 g Typ.	36 g Typ.
<b>Environmental Requirements</b>				
Temperature ( Operating )		0 to 70 °C ( Case 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</li> <li>• Ultra-DMA</li> <li>• Advanced PIO mode</li> <li>• Data Set Management Command set (Trim) support</li> <li>• Automatic retries and corrections for read errors</li> <li>• FDE (Full Disk Encryption) (Optional)</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 1,073,741,824 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.