

Client SSD

BG1 Series (Non-SED model)

		M.2 1620 (Single Package)	M.2 2230-S4 M.2 2230-S3 (Single-sided)	M.2 2280-S4 M.2 2280-S3 (Single-sided)
Basic Specifications				
Model Number	256 GB	THNSNN256GTY7	THNSNN256GSX7	THNSNN256GVX7
	128 GB	THNSNN128GTY7	THNSNN128GSX7	THNSNN128GVX7
Connector Type		-	M.2 B-M	
Interface	PCI Express® Base Specification Revision 3.0 (PCIe®)			
	Maximum Speed	10 GT/s (PCIe® Gen2×2 Lane)		
	Command	NVM Express™ Revision 1.1a (NVMe™)		
NAND flash Memory Type		MLC		
Sequential Read		Up to 750 MB/s (715 MiB/s)		
Sequential Write		Up to 260 MB/s (247 MiB/s)		
Reliability				
MTTF		1,500,000 hours		
Power Requirements				
Supply Voltage		3.3 V±5 % 1.8 V±5 % 1.2 V±5 %	3.3 V±5 %	
Power Consumption (Active)		2.0 W Typ.	2.2 W Typ.	2.2 W Typ.
Dimensions				
Height		1.65 mm (256 GB) 1.4 mm (128 GB)	2.63 mm (256 GB) 2.38 mm (128 GB)	2.63 mm (256 GB) 2.38 mm (128 GB)
Width		16.0 mm	22.00 mm	22.00 mm
Length		20.0 mm	30.00 mm	80.00 mm
Weight		1.0g Typ.(256 GB) 0.9 g Typ.(128 GB)	2.5 g Typ.(256 GB) 2.3 g Typ.(128 GB)	5.0 g Typ.(256 GB) 4.7 g Typ.(128 GB)
Environmental Specifications				
Temperature (Operating)		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 / Non-operating)		14.7 km/s ² { 1500 G } (0.5 ms)		
More Features		<ul style="list-style-type: none"> • BG1 supports TCG Pyrite. • BG1 supports L1.2 Power State of PCIe®. 		

- ▶ Product image may represent a design model.
- ▶ 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.
- ▶ PCIe® and PCI Express® are registered trademarks of PCI-SIG.
- ▶ NVMe™ and NVM Express™ are trademarks of NVM Express, Inc.
- ▶ 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.
- ▶ TCG: Trusted Computing Group