

# PC and Notebook Storage

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## HG6 Series Solid State Drives

60 / 128 / 256 / 512GB\*  
A19nm MLC NAND / SATA

Toshiba delivers an uncompromising storage solution featuring state of the art A19nm Toggle NAND, high performance, high reliability, and power efficiency for OEM systems from Ultrabooks®\*\* to servers.

- Capacities up to 512GB\*
- Available in four standard form factors
- Low power Devsleap feature support
- End-to-End data path protection
- Toshiba proprietary QSBC®\*\*\* error correction



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Leading Innovation >>>



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Model Name	THNSxJyyyGBSU <sup>2</sup>	THNSxJyyyGCSU <sup>2</sup>	THNSxJyyyGACU/MCU <sup>3</sup>	THNSxJyyyG8NU/DNU <sup>4</sup>	THNSxJyyyGVNU <sup>2</sup>
Form Factor	2.5-inch Case (9.5 mmH)	2.5-inch Case (7.0 mmH)	mSATA™ <sup>1</sup> Module	M.2 (2280-D2 Double-Sided)	M.2 (2280-S2 Single-Sided)

## Series Overview

Connector Type	Standard SATA	Standard SATA	mSATA	M.2 B-M	M.2 B-M
Drive Capacity	60/128/256/512GB*	60/128/256/512GB*	60/128/256/512GB*	60/128/256/512GB*	128/256GB*
NAND Technology	A19 nm MLC NAND Flash Memory				
Drive Interface	ACS-2, SATA revision 3.1 1.5/3/6 Gb/sec				

## Performance

Max. Sequential Read	534 MB/s(510 MiB/s) <sup>5,6</sup>				
Max. Sequential Write	482 MB/s{460 MiB/s} <sup>5,6</sup>				

## Power Requirements

Voltage	5.0 V ±5 %	5.0 V ±5 %	3.3 V ±5 %	3.3 V ±5 %	3.3 V ±5 %
Active Idle Power	Active: 3.3 W typ Idle: 125 mW typ.	Active: 3.3 W typ Idle: 125 mW typ.	Active: 3.2 W typ. Idle: 65 mW typ.	Active: 3.2 W typ. Idle: 65 mW typ.	Active: 2.5 W typ. Idle: 65 mW typ.

## Physical Size

Dimensions (W)x(D)x(H)	100.0 mm x 69.85 mm x 9.5 mm	100.0 mm x 69.85 mm x 7.0 mm	50.95 mm x 30.0 mm x 3.95 mm	80.0 mm x 22.0 mm x 3.50 mm	80.0 mm x 22.0 mm x 2.15 mm
Weight	51-55 g typ.	49-53 g typ.	7.3-7.7 g typ.	7.0-9.3 g typ.	6.4-6.6 g typ.

## Environmental

Temp - Operating	0°C - 70°C (case temperature)	0°C - 70°C (case temperature)	0°C - 80°C (components temperature) -40°C - 85°C	0°C - 80°C (components temperature)	0°C - 80°C (components temperature)
Temp - Non-Operating					
Vibration - Operating	196 m/s <sup>2</sup> {20 G} at 10-2,000 Hz				
Vibration - Non-Operating	196 m/s <sup>2</sup> {20 G} at 10-2,000 Hz				
Shock - Operating	14.7 km/s <sup>2</sup> {1500 G} at 0.5 ms				

## Reliability

MTTF	1,500,000 hours				
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## Warranty

Limited Warranty	3 years (from date of purchase)				
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## More Features

Translation mode which enables any drive configuration  
28-bit LBA mode commands and 48-bit LBA mode commands support  
Multi word DMA, Ultra-DMA, Advanced PIO mode  
Automatic retries and corrections for read errors  
SED models are based on TCG OPAL ver. 2.0.SED models also support Wipe Technology.

Limited Warranty years is for the United States and Canada only. Warranty terms in other counties may be different. For more information visit <http://storage.toshiba.com/storage-services-support/technical-support/warranty>.

<sup>1</sup>mSATA™ is an unregistered trademark of Serial ATA International Organization.

<sup>2</sup>Model Number : x=N, Standard model, x=F, SED models. "yyy" indicates the capacity of the drive.

<sup>3</sup>Only 512GB model is lined up for "ACU", 60,128 and 256GB models are lined up for "MCU".

<sup>4</sup>Read and write speed may vary depending on the host device, read and write conditions, and file size.

<sup>5</sup>1 MiB (mebibytes) = 2<sup>20</sup> bytes = 1,048,576 bytes

<sup>6</sup>1 MB = 1,000,000 bytes, 1 GB = 1,000,000,000 bytes, 1 Gbit = 1,000,000,000 bits

\*One Terabyte (1TB) = 1,000 Gigabytes (GB). One Gigabyte (1GB) means 10<sup>9</sup> = 1,000,000,000 bytes using powers of 10. 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 will also be less if the computer includes one or more pre-installed operating systems, pre-installed software applications, or media content. Actual formatted capacity may vary.

\*\*Ultrabook™ is a registered trademark of Intel Corporation.

\*\*\*QSPC™ is a registered trademark of Toshiba Corporation in the United States.

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