




## H200 - High-Performance Hybrid Drive



## Top speed. Maximum storage.

Toshiba's H200 2.5" internal solid state hard drive (SSHD) combines the storage capabilities of a hard drive with the performance and responsiveness of a solid state drive, in capacities of 500 GB and 1 TB – giving you large, high-performance storage that's ideal for gamers. High-speed access from the device is achieved through an optimised self-learning caching algorithm, while a dual-stage actuator and RV sensor improve positional accuracy to reduce interruptions caused by vibrations. In addition, Perpendicular Magnetic Recording and Tunnel Magneto-Resistive technologies ensure stable recording that makes the most of SSHD space. And once your data is saved and stored, you can be sure it's secure, thanks to ramp loading technology for data protection while on the move, and shock resistance that will cut the power in the event of physical stress to the SSHD or laptop while in use.


Target devices: Notebooks, Game consoles  
Target applications: Everyday applications, challenging applications like gaming, system enhancement



**Game on**  
The next generation of video games demand powerful storage to keep up – enter the Toshiba H200 SSHD, the perfect companion to any gaming laptop.



**The best of both**  
Combining the storage capabilities of a hard drive with the performance and responsiveness of a solid state drive – a perfect combination of both technologies.



**The quick learner**  
By storing your most frequently-accessed data to NAND, the H200's optimised self-learning caching algorithm means you get faster access to the files you use.

# H200 - High-Performance Hybrid Drive

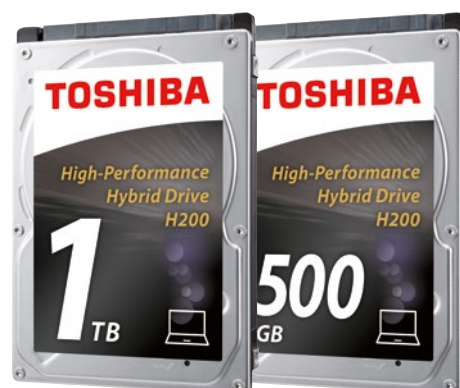
## Specifications

Part number:	H200 - High-Performance Hybrid Drive, 1 TB: HDWM110EZSTA (Retail), HDWM110UZSVA (Bulk) H200 - High-Performance Hybrid Drive, 500 GB: HDWM105EZSTA (Retail), HDWM105UZSVA (Bulk)
Form factor:	2.5-inch
Interface:	SATA 6.0 Gbit/s
Available capacities:	1 TB, 500 GB
Advanced Format (AF):	yes
RoHS compatible:	yes
Halogen Free:	yes
<b>Performance</b>	
Rotational speed:	5400 rpm
Buffer size:	64 MB
NAND Flash Memory size and type:	8 GB 2-bit-per-cell MLC
Average latency:	5.56 ms
Native Command Queing (NCQ):	supported
<b>Reliability</b>	
Unrecoverable error rate:	1 per 10E14 bits read
<b>Power Management</b>	
Supply voltage:	5V (±5 %)
Consumption - Read/Write:	3.3/3 W typ.
Consumption - Low Power Idle:	0.75 W typ.
<b>Environmental</b>	
Temperature (operating):	0 to 60 °C
Temperature (non-operating):	-40 to 65 °C
Vibration (operating):	9.8 m/s <sup>2</sup> {1.0 G} (5 to 500 Hz)
Vibration (non-operating):	49 m/s <sup>2</sup> {5.0 G} (15 to 500 Hz)
Shock (operating):	3,920 m/s <sup>2</sup> {350 G} (2 ms half sine)
Shock (non-operating):	8,820 m/s <sup>2</sup> {900 G} (1 ms half sine)
Acoustics (idle mode):	25 dB typ. (1 TB), 19 dB typ. (500 GB)
Acoustics (seek mode):	25 dB typ. (1 TB), 21 dB typ. (500 GB)
<b>Physical</b>	
Dimensions:	100 (L) x 69.85 (W) x 9.5 (H) mm (1 TB) 100 (L) x 69.85 (W) x 7.0 (H) mm (500 GB)
Weight:	117 g max. (1 TB), 92 g max. (500 GB)

## Box Content

- 2.5-inch internal SSHD - H200 High-Performance Hard Drive
- Quick Start Guide
- Warranty Leaflet

\* Do not use the drive at high or low temperature or sudden temperature changes. This may result in loss of data or damage to the drive.



## Top features:

- SSD-like performance
- Optimized self-learning caching algorithm
- NAND flash memory controller technologies
- High anti-oscillation performance
- Curbed system-induced vibration
- Data protection technology

## Retail packaging

