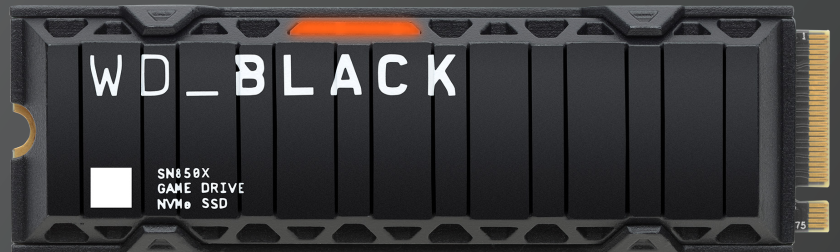


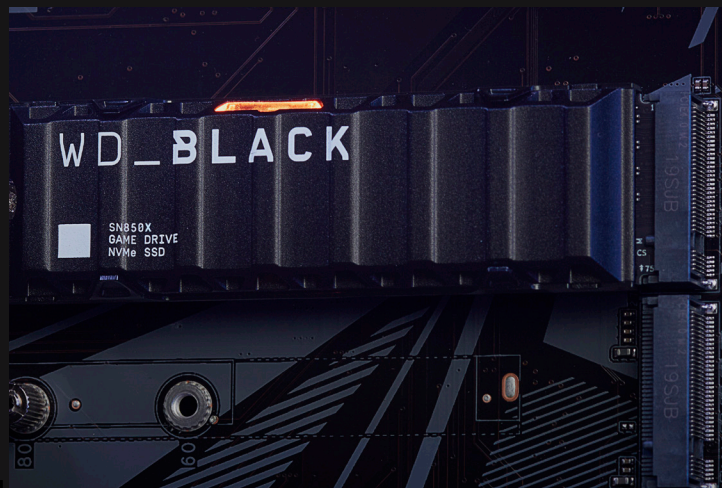
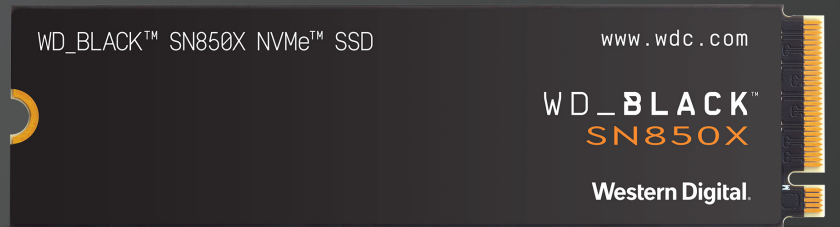
# WD\_BLACK™ SN850X NVMe™ SSD

HIGH-PERFORMANCE  
NVMe™ STORAGE  
WITH PCIe® GEN4  
TECHNOLOGY

Crush load times and slash throttling, lagging, and model pop-ins with the WD\_BLACK™ SN850X NVMe™ SSD, the purpose-built gaming drive that lets you compete at your absolute peak.



Heatsink model intended for desktop PCs and PlayStation™ 5 (Playstation™ 5 system software version 21.02-04.00.00 or higher required) only.



- Get the ultimate gaming edge over your competition with insane speeds up to 7,300 MB/s<sup>1</sup> for top-level performance and ridiculously short load times.
- Soup up your gaming experience with extremely low latency that loads graphics fast with minimal stutter and lagging for smooth, satisfying action.
- A range of capacities from 1TB to 4TB<sup>2</sup> means you get to keep more of today's games that can take up 200GB<sup>2</sup> or more of storage.
- The 1TB and 2TB<sup>2</sup> drives offer optional RGB lighting plus a heatsink to help maintain peak performance through the most intense gaming sessions.
- Game Mode 2.0 serves up even more PC performance-boosting features like load prediction to ready game assets for fast in-game loading.
- Output approaching the limits of the PCIe® Gen4<sup>3</sup> interface helps you get ultra-fast performance out of your storage and system components.

# WD\_BLACK

# PRODUCT FEATURES

## GET THE ULTIMATE GAMING EDGE

Insane speeds up to 7,300 MB/s<sup>1</sup> deliver top-tier performance with ridiculously short load times for the elite gaming experience you've been waiting for.

## SOUP UP YOUR RIG

Extremely low latency loads graphics fast with minimal stutter and lagging for an incredibly smooth, satisfying gaming experience.

## MORE ROOM FOR MORE GAMES

Today's A-list titles can take up to 200GB<sup>2</sup> or more of storage. A range of capacities from 1TB to 4TB<sup>2</sup> means you get to keep more games at the ready and get into the action fast.

## HEATSINK FOR THE WIN

The WD\_BLACK™ SN850X NVMe™ SSD 1TB and 2TB<sup>2</sup> drives have an optional heatsink version that not only looks awesome but also helps your rig maintain peak performance through the most intense gaming sessions.

## GAME MODE 2.0

The latest version of Game Mode serves up even more PC performance-boosting features like load prediction to ready game assets for fast in-game loading.

## NEAR-MAX PCIe® GEN4<sup>3</sup> SPEEDS

The WD\_BLACK™ SN850X NVMe™ SSD delivers output approaching the limits of the PCIe® Gen4 interface to help you get ultra-fast performance out of your storage and system components.

# PRODUCT SPECIFICATIONS

### CAPACITIES<sup>2</sup> AND MODELS:

|              |                    |
|--------------|--------------------|
| 4TB          | WDS400T2X0E-00BCA0 |
| 2TB          | WDS200T2X0E-00BCA0 |
| 1TB          | WDS100T2X0E-00BCA0 |
| 2TB Heatsink | WDS200T2XHE-00BCA0 |
| 1TB Heatsink | WDS100T2XHE-00BCA0 |

### INTERFACE<sup>3</sup>:

PCIe® Gen4 16GT/s, up to 4 Lanes

### DIMENSIONS:

#### NON-HEATSINK

|               |             |
|---------------|-------------|
| LENGTH [max]: | 80 ± 0.15mm |
| WIDTH [max]:  | 22 ± 0.15mm |
| HEIGHT [max]: | 2.38mm      |
| WEIGHT [max]: | 7.5g ± 1g   |

#### HEATSINK

|               |                |
|---------------|----------------|
| LENGTH [max]: | 80 ± 0.20mm    |
| WIDTH [max]:  | 23.40 ± 0.20mm |
| HEIGHT [max]: | 8.80 ± 0.20mm  |
| WEIGHT [max]: | 24g ± 3g       |

### ENDURANCE<sup>4</sup> [TBW]:

|      |      |
|------|------|
| 4TB: | 2400 |
| 2TB: | 1200 |
| 1TB: | 600  |

### PERFORMANCE<sup>5</sup>:

|                     |             |
|---------------------|-------------|
| ■ Sequential Read:  |             |
| 4TB:                | 7,300MB/s   |
| 2TB:                | 7,300MB/s   |
| 1TB:                | 7,300MB/s   |
| ■ Sequential Write: |             |
| 4TB:                | 6,600MB/s   |
| 2TB:                | 6,600MB/s   |
| 1TB:                | 6,300MB/s   |
| ■ Random Read:      |             |
| 4TB:                | 1,200K IOPS |
| 2TB:                | 1,200K IOPS |
| 1TB:                | 800K IOPS   |
| ■ Random Write:     |             |
| 4TB:                | 1,100K IOPS |
| 2TB:                | 1,100K IOPS |
| 1TB:                | 1,100K IOPS |

### OPERATING SPECIFICATIONS:

- Operating Temperature<sup>6</sup>: 32°F to 185°F [0°C to 85°C]
- Non-operating Temperature<sup>7</sup>: -40°F to 185°F [-40°C to 85°C]

### SYSTEM COMPATIBILITY:

- Computer with M.2 [M-key] port, capable of taking M.2 2280 form factor
- Windows® 11, 10, 8.1
- PlayStation® 5 [Heatsink model only]<sup>8</sup>

### LIMITED WARRANTY:

5 Years<sup>9</sup>

<sup>1</sup> Based on read speed, unless otherwise stated. 1 MB/s = 1 million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

<sup>2</sup> 1GB = 1 billion bytes and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.

<sup>3</sup> Backward compatible with PCIe Gen3 x4, PCIe Gen3 x2, PCIe Gen3 x1, PCIe Gen2 x4, PCIe Gen2 x2 and PCIe Gen2 x1

<sup>4</sup> TBW (terabytes written) values calculated using JEDEC client workload [JESD219] and vary by product capacity.

<sup>5</sup> Test Conditions: Performance is based on the CrystalDiskMark™ 8.0.1 benchmark using a 1000MB LBA range on AMD Ryzen 9 5950X 16-core processor, BIOS 4204, Microsoft® Windows® 11 Pro x64 2009 [19043.1023] using Microsoft StorNVMe™ driver, secondary drive. 1 MB/s = 1 million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

<sup>6</sup> Operational temperature is defined as temperature reported by the drive. Note that drive temperature readings are expected to be higher than ambient temperature when the SSD is placed inside a system. The SSD box package is rated up to 60°C.

<sup>7</sup> Non-operational storage temperature does not guarantee data retention.

<sup>8</sup> For PS5™ firmware compatibility, please visit <http://wdblack.com/SN850HS-PS5>

<sup>9</sup> 5 years or Max Endurance [TBW] limit, whichever occurs first. See [support.wdc.com](http://support.wdc.com) for regional specific warranty details.

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