

# WD\_BLACK™ SN770 NVMe™ SSD

HIGH-PERFORMANCE  
SSD STORAGE  
WITH PCIe® GEN4  
TECHNOLOGY

Get ready to game even faster with the WD\_BLACK™ SN770 NVMe™ SSD. Zoom past load times and get into the action now with a purpose-built gaming drive that boasts up to 40% faster performance and up to 20% more power efficiency at maximum speed over the previous generation<sup>1</sup> [1TB model], plus a PCIe® Gen4 interface<sup>2</sup> that delivers blazing speeds of up to 5,150MB/s<sup>3</sup> [1TB and 2TB models].



- Get into the game fast with blazing speeds of up to 5,150MB/s<sup>3</sup> [1TB and 2TB models].
- Equipped with a PCIe® Gen4 interface<sup>2</sup>, the WD\_BLACK™ SN770 NVMe™ SSD helps fuel in-game responsiveness, minimize stutter, and provide smooth streaming for a performance boost you can see and feel.
- Get tons of space for your latest games, future updates, and downloadable content with capacities up to 2TB<sup>4</sup>.
- Turbocharge your laptop with up to 20% more power efficiency at maximum speed over the previous generation [1TB model]<sup>1</sup>.
- Optimize peak performance in gaming mode and monitor your drive's health with the WD\_BLACK™ Dashboard so you can game with confidence.
- Equipped with advanced thermal management technology that helps maintain consistent performance, this reliable drive comes in an M.2 SSD form factor for compatibility with modern motherboards and laptops.

# WD\_BLACK

# PRODUCT FEATURES

## FIRST INTO THE ACTION

Get into the match fast as you zoom past load times with blazing speeds of up to 5,150MB/s<sup>3</sup> (1TB and 2TB models).

## SMOOTHER, FASTER GAMING

Improve in-game responsiveness and streaming with the PCIe® Gen4 interface<sup>2</sup> for a performance boost you can see and feel. The interface is compatible with leading CPU and motherboard platforms and backwards-compatible with PCIe® Gen3.

## STORE MORE

Available in capacities up to 2TB<sup>4</sup>, the WD\_BLACK™ SN770 NVMe™ SSD gives you tons of storage for your latest games with space left over for future updates and downloadable content.

## TURBOCHARGE YOUR LAPTOP

Get up to 20% more power efficiency at maximum speed over the previous generation<sup>1</sup> (1TB model) for an even better overall gaming experience on your portable rig.

## GAME LONGER AND BETTER

Optimize peak performance in gaming mode and monitor your drive's health with the WD\_BLACK™ Dashboard so you can game with confidence.

## 5-YEAR LIMITED WARRANTY<sup>5</sup>

Equipped with advanced thermal management technology that helps maintain consistent performance, this reliable drive from a trusted brand comes backed by a 5-year limited warranty.

# PRODUCT SPECIFICATIONS

### CAPACITIES<sup>4</sup> AND MODELS:

2TB	WDS200T3X0E
1TB	WDS100T3X0E
500GB	WDS500G3X0E
250GB	WDS250G3X0E

### INTERFACE:

- PCIe® Gen4 16GT/s, up to 4 Lanes

### DIMENSIONS:

LENGTH:	80 ± 0.15mm
WIDTH:	22 ± 0.15mm
HEIGHT:	2.38mm
WEIGHT:	5.5g ± 0.5g

### ENDURANCE<sup>6</sup> [TBW]:

2TB:	1,200
1TB:	600
500GB:	300
250GB:	200

### PERFORMANCE<sup>7</sup>:

- Sequential Read [up to]<sup>3</sup>:
 

2TB:	5,150MB/s
1TB:	5,150MB/s
500GB:	5,000MB/s
250GB:	4,000MB/s
- Sequential Write [up to]<sup>3</sup>:
 

2TB:	4,850MB/s
1TB:	4,900MB/s
500GB:	4,000MB/s
250GB:	2,000MB/s
- Random Read:
 

2TB:	650K IOPS
1TB:	740K IOPS
500GB:	460K IOPS
250GB:	240K IOPS
- Random Write:
 

2TB:	800K IOPS
1TB:	800K IOPS
500GB:	800K IOPS
250GB:	470K IOPS

### OPERATING SPECIFICATIONS<sup>8</sup>:

- Operating Temperature: 32°F to 185°F [0°C to 85°C]
- Non-operating Temperature: -40°F to 185°F [-40°C to 85°C]

### SYSTEM COMPATIBILITY:

- Backward-Compatible with PCIe® Gen3 x4, PCIe® Gen3 x2, PCIe® Gen3 x1, PCIe® Gen2 x4, PCIe® Gen2 x2 and PCIe® Gen2 x1
- Windows® 8.1, 10

### LIMITED WARRANTY:

- 5 Years<sup>5</sup>

<sup>1</sup> Up to 40% faster and up to 20% better power efficiency at maximum speed as compared to our last gen product, the 1TB WD\_BLACK SN750™ SE SSD.

<sup>2</sup> PCIe® Gen4 storage technology requires a compatible motherboard. WD\_BLACK™ SN770 is backwards-compatible with PCIe® Gen3.

<sup>3</sup> Based on read speed. 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>4</sup> 1GB = 1 billion bytes and 1TB = one trillion bytes. Actual user capacity may be less depending on operating environment.

<sup>5</sup> 5 years or Max Endurance (TBW) limit, whichever occurs first. See support.wdc.com for region-specific warranty details.

<sup>6</sup> TBW (terabytes written) values calculated using JEDEC client workload (JESD219) and vary by product capacity.

<sup>7</sup> Test Conditions: Performance is based on the CrystalDiskMark™ 8.0.1 benchmark using a 1000MB LBA range Asus™ ROG Maximus XIII Hero desktop with Intel® i9-11900K @ 3.50GHz, 128GB 3200MHz DDR4, Microsoft® Windows® 10 Pro x64 2009 [19043.1023] using Microsoft StorNVMe™ driver, secondary drive. Performance may vary based on host device, usage conditions, drive capacity, and other factors. 1 MB = 1,000,000 bytes. IOPS = input/output operations per second.

<sup>8</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. Non-operational storage temperature does not guarantee data retention.

Product specifications subject to change without notice. Pictures shown may vary from actual products.

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