



WD\_ BLACK™

WD\_BLACK™ SN850X NVMe™ SSD

M.2 2280 NVMe™ SSD  
GAME DRIVE

BUILT FOR ELITE GAMING.

Crush load times and slash throttling, lagging, and texture pop-ins with the WD\_BLACK™ SN850X NVMe™ SSD. Available in capacities of up to 1TB through 8TB<sup>1</sup>, this gaming drive is built for top-tier performance. With 7,300MB/s<sup>2</sup> speeds [1TB - 4TB models] and a heatsink option to maintain performance, you can enjoy your favorite games without worrying about lag. Plus, the downloadable WD\_BLACK™ Dashboard [Windows® only] can automatically turn on Game Mode 2.0 features. The WD\_BLACK™ SN850X NVMe™ SSD delivers a smooth, fast experience—and the innovations that let you compete at your absolute peak.

KEY FEATURES

- TRANSFORM YOUR PC. Get top-tier performance and ridiculously short load times for your gaming PC or workstation with insane speeds up to 7,300 MB/s<sup>2</sup> [1TB - 4TB models].
- MORE ROOM, MORE GAMES. Capacities up to 8TB<sup>1</sup> mean you get to download more games – and stop deleting your favorites.
- HEATSINK FOR THE WIN. All capacities have an optional heatsink version to help maintain peak performance through your most intense gaming sessions.
- DO MORE WITH DASHBOARD. The downloadable WD\_BLACK™ Dashboard [Windows® only] monitors your drive's health, lets you customize your RGB lighting [heatsink versions only], and can automatically detect games to turn on Game Mode 2.0.
- FUTURE-FORWARD FEATURES. The WD\_BLACK™ SN850X boasts a powerful suite of features, including Predictive Loading, Overhead Balancing, and Adaptive Thermal Management [ATM].<sup>3</sup>
- DIRECTSTORAGE SUPPORT. Improve load times and get precious time back with Microsoft® DirectStorage technology.

## PRODUCT FEATURES

### GAIN THE ULTIMATE GAMING EDGE

Insane speeds up to 7,300MB/s<sup>2</sup> [1TB - 4TB models] deliver top-tier performance with ridiculously short load times – for the elite gaming experience you’ve been waiting for.

### HEATSINK FOR THE WIN

All capacities have an optional heatsink version that’s not only eye-catching, but also helps your rig maintain peak performance through your most intense gaming sessions.

### MORE ROOM FOR MORE GAMES

Capacities up to 8TB<sup>1</sup> mean you get to keep more games at the ready – and get into the action even faster.

### DO MORE WITH WD\_BLACK™ DASHBOARD

The downloadable WD\_BLACK™ Dashboard [Windows® only] monitors your drive’s health, lets you customize your RGB lighting, and, exclusively on the SN850X SSD, enables Game Mode 2.0 to transform your gaming experience.

### FUTURE-FORWARD FEATURES

The WD\_BLACK™ SN850X SSD boasts a powerful suite of features, including Predictive Loading, Overhead Balancing, and Adaptive Thermal Management [ATM].<sup>3</sup>

### DIRECTSTORAGE SUPPORTED

Improve load times and get precious time back with Microsoft® DirectStorage technology.

## PRODUCT SPECIFICATIONS

CAPACITIES <sup>1</sup> : MODELS WITH HEATSINK: MODELS WITHOUT HEATSINK:	8TB WDS800T2XHE WDS800T2X0E	4TB WDS400T2XHE WDS400T2X0E	2TB WDS200T2XHE WDS200T2X0E	1TB WDS100T2XHE WDS100T2X0E
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INTERFACE<sup>4</sup> PCIE® GEN4 16GT/S, UP TO 4 LANES

NAND WESTERN DIGITAL® TLC 3D NAND

### PERFORMANCE<sup>2</sup>

Sequential Read [up to]:	7,200MB/S	7,300MB/S	7,300MB/S	7,300MB/S
Sequential Write [up to]:	6,600MB/S	6,600MB/S	6,600MB/S	6,300MB/S
Random Read [up to]:	1,200K IOPS	1,200K IOPS	1,200K IOPS	800K IOPS
Random Write [up to]:	1,200K IOPS	1,100K IOPS	1,100K IOPS	1,100K IOPS

ENDURANCE<sup>5</sup> [TBW] 4,800 2,400 1,200 600

DIMENSIONS	LENGTH:	WIDTH:	HEIGHT:	WEIGHT:
1 & 2TB MODELS WITHOUT HEATSINK:	80 ± 0.15MM	22 ± 0.15MM	2.38MM	7.5G ± 1G
4 & 8TB MODELS WITHOUT HEATSINK:	80 ± 0.15MM	22 ± 0.15MM	3.88MM	8.6G ± 1G
1 & 2TB MODELS WITH HEATSINK:	80 ± 0.20MM	23.40 ± 0.40MM	8.90 ± 0.40MM	24G ± 3G
4 & 8TB MODELS WITH HEATSINK:	80 ± 0.20MM	24.46 ± 0.48MM	10.31 ± 0.50MM	30.4G ± 3G

SECURITY SPECIFICATIONS TCG OPAL V2.01

SYSTEM COMPATIBILITY Computer with M.2 [M-key] port, capable of taking M.2 2280 form factor Windows® 10+ PlayStation®5 [Heatsink model only]

LIMITED WARRANTY<sup>6</sup> 5 YEARS

RoHS COMPLIANCE YES

OPERATING TEMPERATURE<sup>7</sup> 32°F TO 185°F [0°C TO 85°C]

NON OPERATING TEMPERATURE<sup>8</sup> -40°F TO 185°F [-40°C TO 85°C]

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

<sup>2</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>3</sup> Requires the downloadable WD\_BLACK™ Dashboard [Windows® only]

<sup>4</sup> PCIE® Gen4 storage technology requires a compatible motherboard. Backwards compatible with PCIE® Gen3 x4, PCIE® Gen3 x2, PCIE® Gen3 x1, PCIE® Gen2 x4, PCIE® Gen2 x2 and PCIE® Gen2 x1.

<sup>5</sup> TBW [terabytes written] values calculated using JEDEC client workload [JESD219] and vary by product capacity.

<sup>6</sup> 5 years or Max Endurance [TBW] limit, whichever occurs first. See support.wdc.com for region-specific warranty details.

<sup>7</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>8</sup> Non-operational storage temperature does not guarantee data retention.