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# 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 SANDISK® 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 SSD 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.

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## 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 SANDISK® DASHBOARD

The downloadable SANDISK® 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> :	8TB	4TB	2TB	1TB
MODELS WITH HEATSINK:	WDS800T2XHE	WDS400T2XHE	WDS200T2XHE	WDS100T2XHE
MODELS WITHOUT HEATSINK:	WDS800T2X0E	WDS400T2X0E	WDS200T2X0E	WDS100T2X0E
INTERFACE <sup>4</sup>	PCIe® GEN4 16GT/S, UP TO 4 LANES			
NAND	SANDISK® 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 = 1 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.

**SANDISK™**

July 2025

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