

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 8TB¹, this gaming drive is built for top-tier performance. With 7,300MB/s² 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/s² [1TB 4TB models].
- MORE ROOM, MORE GAMES. Capacities up to 8TB¹ 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].3
- 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/s² [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 8TB¹ 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].³

DIRECTSTORAGE SUPPORTED

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

PRODUCT SPECIFICATIONS				
CAPACITIES: MODELS WITH HEATSINK: MODELS WITHOUT HEATSINK:	8TB WDS800T2XHE WDS800T2X0E	4TB WDS400T2XHE WDS400T2X0E	2TB WDS200T2XHE WDS200T2X0E	1TB WDS100T2XHE WDS100T2X0E
INTERFACE ⁴	PCIE® GEN4 16GT/S, UP TO 4 LANES			
NAND	WESTERN DIGITAL® TLC 3D NAND			
PERFORMANCE ² Sequential Read [up to]: Sequential Write [up to]: Random Read [up to]: Random Write [up to]:	7,200MB/S 6,600MB/S 1,200K IOPS 1,200K IOPS	7,300MB/S 6,600MB/S 1,200K IOPS 1,100K IOPS		7,300MB/S 6,300MB/S 800K IOPS 1,100K IOPS
ENDURANCE ⁵ [TBW]	4,800	2,400	1,200	600
DIMENSIONS 1 & 2TB MODELS WITHOUT HEATSINK: 4 & 8TB MODELS WITHOUT HEATSINK: 1 & 2TB MODELS WITH HEATSINK: 4 & 8TB MODELS WITH HEATSINK:	LENGTH: 80 ± 0.15MM 80 ± 0.15MM 80 ± 0.20MM 80 ± 0.20MM	WIDTH: 22 ± 0.15MM 22 ± 0.15MM 23.40 ± 0.40MM 24.46 ± 0.48MM	HEIGHT: 2.38MM 3.88MM 8.90 ± 0.40MM 10.31 ± 0.50MM	WEIGHT: 7.5G ± 1G 8.6G ± 1G 24G ± 3G 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	5 YEARS			
RoHS COMPLIANCE	YES			
OPERATING TEMPERATURE ⁷	32°F TO 185°F [0°C TO 85°C]			
NON OPERATING TEMPERATURE®	-40°F TO 185°F [-40°C TO 85°C]			

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TIB = one trillion bytes. Actual user capacity may be less depending on operating environment.

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.

Requires the downloadable WD_BLACK** Dashboard (Windows® only)

PCIe® Gen4 storage technology requires a compatible motherboard. Backwards compatible with PCIe® Gen3 x4, PCIe® Gen3 x2, PCIe® Gen3 x1, PCIe® Gen2 x

X4, PCIe® Gen2 x2 and PCIe® Gen2 x1.

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

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

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.