

SN850 NVME™ SSD

WD_BLACK™

SSD PERFORMANCE
STORAGE THAT
REDEFINES SPEED

Long load times are obsolete with next-gen PCIe® Gen4 technology, reaching irrational read/write speeds up to 7000/5300MB/s¹ [1TB model]. Arm your system or console with RGB lighting, an optional heatsink model, and up to 2TB² capacity.



- Next-gen PCIe® Gen4 technology optimized for top-tier gaming
- Irrationally fast read/write speeds up to 7000/5300MB/s¹ [1TB model] and up to 1,000,000 IOPS³ [1TB and 2TB models]
- Customizable RGB lighting [Windows® Only] programmable with the WD_BLACK™ Dashboard [heatsink model only]
- Up to 2TB² capacity to hold your favorite battle-ready games
- Sleek heatsink model minimizes thermal throttling to push the boundaries of performance [compatible with Desktop PCs and PlayStation™ 5⁶]
- Downloadable WD_BLACK™ Dashboard software to customize and control your gaming experience [Windows® Only]

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PRODUCT FEATURES

EXPERIENCE SUPREME PERFORMANCE

Prepare for the next evolution of speed with the WD_BLACK™ SN850 NVMe™ SSD, giving you supreme PCIe® Gen4 technology for your compatible PC, laptop or Playstation™ 5⁶ so you don't lag out on the next generation of games.

SPEED KILLS. THIS DECIMATES.

You asked for fast, we over-delivered. Reach irrational read/write speeds up to 7000/5300MB/s¹ (1TB model) to get you in quicker, with up to 1,000,000 IOPS³ (1TB and 2TB models) for a smooth, responsive and powerful gaming experience.

LIGHT UP YOUR STATION WITH RGB

Enhance your gaming station with fully customizable RGB lighting, controlled through the WD_BLACK™ Dashboard (Windows® only), designed to match your style.

STORE MORE, PLAY MORE

Store your favorite games with up to 2TB² capacity so you still have room for the next big title.

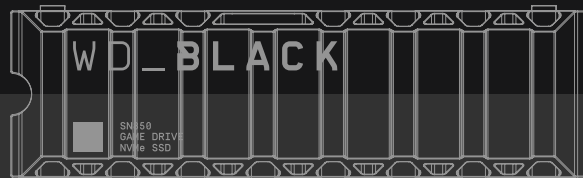
THROTTLE NOTHING BUT YOUR ENEMIES

Supreme performance is best served cold with the WD_BLACK™ SN850 NVMe™ SSD, featuring an optional heatsink model so your PC doesn't bottom out when you're at the top of your game.

- SN850 is available with or without heatsink
- SN850 with heatsink is intended for Desktop PCs and Playstation™ 5 (Playstation™ 5 system software version 21.02-04.00.00 or higher required.)

OPTIMIZED WITH THE WD_BLACK™ DASHBOARD

Take total control with the downloadable WD_BLACK™ Dashboard, allowing you to monitor the health of your drive, and optimize performance using gaming mode.



PRODUCT SPECIFICATIONS

CAPACITIES AND MODELS:

2TB	WDS200T1X0E-00AFY0
1TB	WDS100T1X0E-00AFY0
500GB	WDS500G1X0E-00AFY0
2TB Heatsink	WDS200T1XHE-00AFY0
1TB Heatsink	WDS100T1XHE-00AFY0
500GB Heatsink	WDS500G1XHE-00AFY0

INTERFACE:

- PCIe® Gen4 x4

DIMENSIONS:

NON-HEATSINK

LENGTH:	80 ± 0.15mm
WIDTH:	22 ± 0.15mm
HEIGHT:	2.38mm
WEIGHT:	7.5g ± 1g

HEATSINK

LENGTH:	80 ± 0.20mm
WIDTH:	23.40 ± 0.20mm
HEIGHT:	8.80 ± 0.20mm
WEIGHT:	TBD

ENDURANCE⁴ [TBW]:

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

PERFORMANCE¹:

- Sequential Read:

2TB:	7,000MB/s
1TB:	7,000MB/s
500GB:	7,000MB/s
- Sequential Write:

2TB:	5,100MB/s
1TB:	5,300MB/s
500GB:	4,100MB/s
- Random Read:

2TB:	1,000K IOPS
1TB:	1,000K IOPS
500GB:	810K IOPS
- Random Write:

2TB:	710K IOPS
1TB:	720K IOPS
500GB:	680K IOPS

OPERATING SPECIFICATIONS⁵:

- Operating Temperature: 32°F to 158°F [0°C to 70°C]
- Non-operating Temperature: -67°F to 185°F [-55°C to 85°C]

SYSTEM COMPATIBILITY:

- Backward Compatible with PCIe Gen3 x2, PCIe Gen3 x1, PCIe Gen2 x4, PCIe Gen2 x2, and PCIe Gen2 x1
- Windows® 8.1, 10
- Playstation™ 5⁶

LIMITED WARRANTY:

5 Years⁷

¹ Based on read speed and internal testing. As used for transfer rate, megabyte per second [MB/s] = one million bytes per second. Performance will vary depending on your hardware and software components and configurations.

² As used for storage capacity, one gigabyte [GB] = one billion bytes and one terabyte [TB] = one trillion bytes. Total accessible capacity varies depending on operating environment.

³ IOPS = input/output operations per second. Performance will vary depending on your hardware and software components and configurations.

⁴ TBW (terabytes written) values calculated using JEDEC client workload (JESD219) and vary by product capacity.

⁵ Operational temperature is measured by an on board temperature sensor. Non-operational storage temperature does not guarantee data retention.

⁶ Limited to heatsink model only and Playstation™ 5 system software version 21.02-04.00.00 or higher required.

⁷ 5 years or Max Endurance [TBW] limit, whichever occurs first.