SN850
NVME™ SSD

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/s**. Arm your system with RGB lighting, an optional heatsink model, and up to 2TB* capacity.

Heatsink model intended for desktop PCs only

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

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 PC or laptop 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/s** to get you in quicker, with up to 1,000,000 IOPS*** 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 2TB* 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

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.
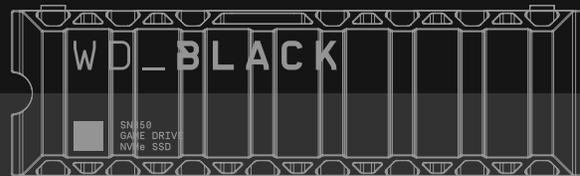
PRODUCT SPECIFICATIONS

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

ENDURANCE[1] [TBW]:

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

PERFORMANCE:
- 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 SPECIFICATIONS[2]:

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

LIMITED WARRANTY:
5 Years

*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.
**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.
***IOPS = input/output operations per second. Performance will vary depending on your hardware and software components and configurations.
[1] TBW [terabytes written] values calculated using JEDEC client workload [JESD219] and vary by product capacity.
[2] Operational temperature is measured by an on board temperature sensor. Non-operational storage temperature does not guarantee data retention.

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