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.

■ 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

Heatsink model intended for desktop PCs only
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.

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

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

INTERFACE:
- PCIe® Gen4 x4

DIMENSIONS:
- NON-HEATSINK
  - LENGTH: 80 ± 0.15mm
  - WIDTH: 22 ± 0.15mm
  - HEIGHT: 2.30mm
  - WEIGHT: 7.5g ± 1g
- HEATSINK
  - LENGTH: 80 ± 0.20mm
  - WIDTH: 23.40 ± 0.20mm
  - HEIGHT: 8.80 ± 0.20mm
  - WEIGHT: TBD

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

OPERATING SPECIFICATIONS:
- 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.

1TBW (terabytes written) values calculated using JEDEC client workload (JESD219) and vary by product capacity.

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