WD_BLACK™ SN770 NVMe™ SSD

HIGH-PERFORMANCE SSD STORAGE WITH PCIe® GEN4 TECHNOLOGY

Get ready to game even faster with the WD_BLACK® SN770 NVMe™ SSD. Zoom past load times and get into the action now with a purpose-built gaming drive that boasts up to 40% faster performance and up to 20% more power efficiency at maximum speed over the previous generation3 (1TB model), plus a PCIe® Gen4 interface4 that delivers blazing speeds of up to 5,150MB/s1 (1TB and 2TB models).

- Get into the game fast as you zoom past load times with blazing speeds of up to 5,150MB/s1 (1TB and 2TB models).
- Equipped with a PCIe® Gen4 interface4, the WD_BLACK® SN770 NVMe™ SSD helps fuel in-game responsiveness, minimize stutter, and provide smooth streaming for a performance boost you can see and feel.
- Get tons of space for your latest games, future updates, and downloadable content with capacities up to 2TB2.
- Turbocharge your laptop with up to 20% more power efficiency at maximum speed over the previous generation3 (1TB model).
- Supports future games developed for Microsoft’s DirectStorage technology for faster load times.
- Optimize peak performance in gaming mode and monitor your drive’s health with the WD_BLACK™ Dashboard (Windows® only) so you can game with confidence using this reliable drive from a trusted brand backed by a 5-year limited warranty5.
PRODUCT FEATURES

FIRST INTO THE ACTION
Get into the match fast as you zoom past load times with blazing speeds of up to 5,150MB/s (1TB and 2TB models).

SMOOTHER, FASTER GAMING
Improve in-game responsiveness and streaming with the PCIe® Gen4 interface for a performance boost you can see and feel. The interface is compatible with leading CPU and motherboard platforms and backwards-compatible with PCIe® Gen3.

STORE MORE
Available in capacities up to 2TB², the WD_BLACK™ SN770 NVMe™ SSD gives you tons of storage for your latest games with space left over for future updates and downloadable content.

TURBOCHARGE YOUR LAPTOP
Get up to 20% more power efficiency at maximum speed over the previous generation (1TB model) for an even better overall gaming experience on your portable rig.

GAME LONGER AND BETTER
Optimize peak performance in gaming mode and monitor your drive's health with the WD_BLACK™ Dashboard (Windows® only) so you can game with confidence using this reliable drive from a trusted brand backed by a 5-year limited warranty⁶.

DIRECTSTORAGE SUPPORTED
Supports Microsoft's DirectStorage technology for future games that improve load times.

PRODUCT SPECIFICATIONS

CAPACITIES² AND MODELS:
- 2TB: WDS200T3X0E
- 1TB: WDS100T3X0E
- 500GB: WDS500G3X0E
- 250GB: WDS250G3X0E

PERFORMANCE⁷:
- Sequential Read [up to]¹:
  - 2TB: 5,150MB/s
  - 1TB: 5,150MB/s
  - 500GB: 5,000MB/s
  - 250GB: 4,000MB/s
- Sequential Write [up to]¹:
  - 2TB: 4,850MB/s
  - 1TB: 4,900MB/s
  - 500GB: 4,000MB/s
  - 250GB: 2,000MB/s
- Random Read:
  - 2TB: 650K IOPS
  - 1TB: 740K IOPS
  - 500GB: 460K IOPS
  - 250GB: 240K IOPS
- Random Write:
  - 2TB: 800K IOPS
  - 1TB: 800K IOPS
  - 500GB: 800K IOPS
  - 250GB: 470K IOPS

INTERFACE:
- PCIe® Gen4 16GT/s, up to 4 Lanes

DIMENSIONS:
- LENGTH: 80 ± 0.15mm
- WIDTH: 22 ± 0.15mm
- HEIGHT: 2.38mm
- WEIGHT: 5.5g ± 0.5g

ENDURANCE⁶ [TBW]:
- 2TB: 1,200
- 1TB: 600
- 500GB: 300
- 250GB: 200

OPERATING SPECIFICATIONS⁸:
- Operating Temperature: 32°F to 185°F (0ºC to 85ºC)
- Non-operating Temperature: -40°F to 185°F [-40ºC to 85ºC]

SYSTEM COMPATIBILITY:
- Backward-Compatible with PCIe® Gen3 x4, PCIe® Gen3 x2, PCIe® Gen3 x1, PCIe® Gen2 x4, PCIe® Gen2 x2 and PCIe® Gen2 x1
- Windows® 8.1, 10, 11

LIMITED WARRANTY:
- 5 Years⁶

¹ Based on read speed. 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.
² 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.
³ 40% faster and up to 20% better power efficiency at maximum speed as compared to our last gen product, the 1TB WD_BLACK SN750 SE SSD.
⁴ PCIe® Gen4 storage technology requires a compatible motherboard. WD_BLACK™ SN770 is backwards-compatible with PCIe® Gen3.
⁵ 5 years or Max Endurance (TBW) limit, whichever occurs first. See support.wdc.com for region-specific warranty details.
⁶ TBW (terabytes written) values calculated using JEDEC client workload (JESD219) and vary by product capacity.
⁷ Test Conditions: Performance is based on the CrystalDiskMark™ 8.0.1 benchmark using a 1000MB LBA range Asus™ ROG Maximus XIII Hero desktop with Intel® i9-11900K @ 3.50GHz, 128GB 3200MHz DDR4. Microsoft® Windows® 10 Pro x64 2009 (19043.1023) using Microsoft StorNVMe™ driver, secondary drive. Performance may vary based on host device, usage conditions, drive capacity, and other factors. 1 MB = 1,000,000 bytes. IOPS = input/output operations per second.
⁸ 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 60ºC. Non-operational storage temperature does not guarantee data retention.

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