



# **Product Highlights**

- Read speeds up to 3,470MB/s² (1TB heatsink model only) for improved load times.
- Available in capacities ranging from 250GB to
- Sleek heatsink design to customize and intensify your gaming rig while helping to maintain peak performance3.
- An exclusive WD\_BLACK™ SSD dashboard<sup>4</sup> with gaming mode improves game performance.

# Space To Play

The WD\_BLACK SN750 NVMe SSD is available in capacities ranging from 250GB - 4TB1. At the core of the WD\_BLACK drive is its revolutionary NAND technology. By doubling the storage density from its previous generation, our 3D NAND pushes the limitations of storage and showcases the amazing feat of NAND innovation. This means extended capacity up to 4TB1 on a single-sided drive that's roughly the size of a gumstick, enough to store your large files and video games.

# WD\_BLACK™ SN750 NVMe™ SSD

#### Level Up to NVMe SSD Performance

The WD\_BLACK<sup>TM</sup> SN750 NVMe<sup>TM</sup> SSD delivers top-tier performance for gaming and hardware enthusiasts who are looking to build or upgrade their PC. Available in capacities up to 4TB<sup>1</sup>, the WD\_BLACK SN750 NVMe SSD rivals some of the best performing drives on the market to help give gamers that competitive edge.

#### Performance Matters

Live life in the fast lane, whether you're looking to boost your system's overall responsiveness or load games and levels quickly, the WD\_BLACK drive cuts down on your wait time to get back into action and gets you ahead of the game.

Our fastest computing NVMe SSD (1TB heatsink model) can deliver speeds more than six times faster than our fastest SATA SSD (up to 3,470MB/s² vs. 560MB/s²) to give hardcore gamers the competitive edge they need.

#### Sleek Heatsink Design

Every system is not created equal. From different graphics cards and CPUs to DRAM and storage, PCs all differ in performance and appearance. The WD\_BLACK SSD's sleek and modern heatsink model goes well with desktop PC builds that support the M.2 form factor and is the perfect component to complement systems with RGB lighting and other cooling technologies, such as water cooling<sup>3</sup>.

The EKWB heatsink is designed to help keep the WD\_BLACK NVMe SSD running at peak performance for longer sustained periods. It's sleek and non-intrusive design not only gives your system a boost in appearance, but also helps your drive maintain optimal levels of performance with its passive cooling features.

### The WD\_BLACK SSD Dashboard<sup>4</sup>

The WD\_BLACK SSD Dashboard gives you the ability to optimize performance by enabling the gaming mode feature. This disables the low power mode function on the SSD, which keeps your drive firing on all cylinders during intense gaming sessions.

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.

Megabyte per second (MB/s) = one million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

Heatsink option not available for the 250GB or 4TB versions of WD\_BLACKTM SN750 NVMe<sup>TM</sup> SSD. Heatsink model recommended for

Available for download at www.westerndigital.com.

## WD\_BLACK SN750 NVMe SSD (Without Heatsink)

Specification					
Interface M.2 2280 <sup>1,2</sup>	PCIe Gen3 8 Gb/s, up to 4 Lanes				
Formatted Capacity <sup>3</sup>	250GB, 500GB, 1TB, 2TB, 4TB				
Performance <sup>2</sup>	250GB	500GB	1TB	2TB	4TB
Sequential Read up to (MB/s) (Queues=32, Threads=1)	3,100	3,430	3,470	3,400	3,400
Sequential Write up to (MB/s) (Queues=32, Threads=1)	1,600	2,600	3,000	2,900	3,100
Random Read 4KB IOPS up to (Queues=32, Threads=8)	220K	420K	515K	480K	550K
Random Write 4KB IOPS up to (Queues=32, Threads=8)	180K	380K	560K	550K	520K
Endurance <sup>4</sup> (TBW)	200	300	600	1,200	2,400
Power					
Peak Power (10us)	2.8A	2.8A	2.8A	2.8A	2.8A
PS3 (low power) <sup>s</sup>	70mW	70mW	100mW	100mW	100mW
Sleep (PS4) (low power) <sup>5</sup>	2.5mW	2.5mW	2.5mW	2.5mW	2.5mW
Reliability					
MTTF <sup>6</sup>	1,750,000 hours (Telcordia SR-332, GB, 40°C)				
Product Safety/Regulatory					
Operating Temperatures <sup>7</sup>	32°F to 158°F (0°C to 70°C)				
Non-operating Temperatures <sup>8</sup>	-67°F to 185°F (-55°C to 85°C)				
Certifications	UL, TUV, CE, BSMI, FCC, KCC, RCM, Morocco, VCCI				
Limited Warranty (years)9	5 years				
Physical Dimensions	M.2 2280				
Form Factor	M.2 2280-S3-M				
Length	80 ± 0.15mm				
Width	22 ± 0.15mm				
Height	2.38mm				
Weight	7.5g ± 1g				
Ordering Information <sup>3</sup>	250GB	500GB	1TB	2TB	4TB
Model Numbers Without Heatsink	WDS250G3X0C	WDS500G3X0C	WDS100T3X0C	WDS200T3X0C	WDS400T3X00

Backward compatible with PCIe Gen3 x2, PCIe Gen3 x1, PCIe Gen2 x4, PCIe Gen2 x2, and PCIe Gen2 x1.

As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, megabit per second, megabit per second, and gigabit per second (Gb/s) = one billion bits per second. IOPS = input/output operations per second. Performance will vary depending on your hardware and software components and configurations.

Not all products may be available in all regions of the world. 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.

operating environment.
TBW (terabytes written) values calculated using JEDEC client workload (JESD219) and vary by product capacity.
Measured using MobileMark™ 2014 on HP EliteBook X360 1030 G2 with i7-7600U, 8GB RAM. Windows 10 Pro 64-bit RS3 using Microsoft StorNVMe driver, Primary drive.
MTTF = Mean Time To Failure based on internal testing using Telicordia stress part testing (Telicordia SR-332, GB, 25°C). MTTF is based on a sample population and is estimated by statistical measurements and acceleration algorithms. MTTF does not predict an individual drive's reliability and does not constitute a warranty.
Operational temperature as reported by device (composite temperature).
Non-operational storage temperature does not quarantee data retention.
5 years or Max Endurance (TBW) limit, whichever occurs first. See support.wdc.com for regional specific warranty details.

#### WD BLACK SN750 NVMe SSD (Heatsink)

Specification						
Interface M.2 2280 <sup>1,2</sup>	PCIe Gen3 8 Gb/s, up to 4 Lanes					
Formatted Capacity <sup>3</sup>		500GB, 1TB, 2TB				
Performance <sup>2</sup>	500GB	1TB	2TB			
Sequential Read up to (MB/s) (Queues=32, Threads=1)	3,430	3,470	3,400			
Sequential Write up to (MB/s) (Queues=32, Threads=1)	2,600	3,000	2,900			
Random Read 4KB IOPS up to (Queues=32, Threads=8)	420K	420K 515K				
Random Write 4KB IOPS up to (Queues=32, Threads=8)	380K	560K	550K			
Endurance <sup>4</sup> (TBW)	300	600	1,200			
Power						
Peak Power (10us)	2.8A	2.8A	2.8A			
PS3 (low power) <sup>s</sup>	70mW	100mW	100mW			
Sleep (PS4) (low power) <sup>5</sup>	3.5mW	3.5mW	3.5mW			
Reliability						
MTTF <sup>6</sup>	1,750,000 hours (Telcordia SR-332, GB, 40°C)					
Product Safety/Regulatory						
Operating Temperatures <sup>7</sup>		32°F to 158°F (0°C to 70°C)				
Non-operating Temperatures <sup>8</sup>		-67°F to 185°F (-55°C to 85°C)				
Certifications	UL, TUV, CE, BSMI, FCC, KCC, RCM, Morocco, VCCI					
Limited Warranty (years) <sup>9</sup>	5 years					
Physical Dimensions	M.2 2280 with Heatsink					
Form Factor	M.2 2280 D5-M with heatsink					
Length		80 ± 0.15mm				
Width	24.2 ± 0.30mm					
Height	8.10mm					
Weight	9.57g ± 1g					
Ordering Information <sup>3</sup>	500GB	1TB	2TB			
Model Numbers With Heatsink <sup>10</sup>	WDS500G3XHC	WDS100T3XHC	WDS200T3XHC			

- Backward compatible with PCIe Gen3 x2, PCIe Gen3 x1, PCIe Gen2 x4, PCIe Gen2 x2, and PCIe Gen2 x1.

  As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, megabit per second, and gigabit per second (Gb/s) = one billion bits per second. IOPS = input/output operations per second. Performance will vary depending on your hardware and software components and configurations.

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

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- Operational temperature as reported by device (composite temperature).
- Non-operational storage temperature does not guarantee data retention.

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

  The M.2 2280 with heatsink version is not recommended for laptops.

# Western Digital.

5601 Great Oaks Parkway San Jose, CA 95119, USA US (Toll-Free): 800.801.4618 International: 408.717.6000

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