



WD\_  
BLACK™

## WD\_BLACK™ SN8100 NVMe™ SSD with Heatsink

PCIe® Gen 5.0 M.2 2280-NVMe™ SSD

EXPERIENCE THE PINNACLE  
OF SSD PERFORMANCE.

Build your new gaming or workstation system with our cutting-edge PCIe® Gen 5 SSD, delivering blistering speeds up to 14,900 MB/s<sup>2</sup> for demanding tasks like high-level gaming, professional content creation, and AI applications. As an industry-leader for PCIe® Gen 5 power efficiency, the WD\_BLACK™ SN8100 NVMe™ SSD with Heatsink harnesses advanced TLC 3D CBA NAND technology to help ensure performance and reliability, while a low-power profile keeps your system running smoothly. Our new integrated heatsink features a signature WD\_BLACK™ brand design and customizable RGB lighting. Engineered with anodized aluminum, and a sleek low-profile design, it helps keep thermals in check with a superior passive cooling design – no noisy fans or extra power cords required. With up to 8TB<sup>1</sup> of storage and a suite of powerful features, this SSD is the ultimate upgrade for discerning users.

### KEY FEATURES

- EXPERIENCE PCIe® Gen 5. Drastically enhance your gaming and content creation experience with this PCIe® Gen 5.0x4 NVMe™ M.2 SSD.
- BLISTERING SPEEDS. IMMENSE CAPACITIES. Your drive reaches sequential read speeds up to an astonishing 14,900MB/s<sup>2</sup>, sequential write speeds up to 14,000MB/s<sup>2</sup>, and over 2,300,000 IOPS<sup>2</sup> of random performance [2TB – 4TB<sup>1</sup> models] and offers up to 8TB<sup>1</sup> of capacity.
- EXTENDED ELEVATED PERFORMANCE. With its custom heatsink, the WD\_BLACK™ SN8100 SSD delivers up to 15x longer<sup>4</sup> sustained performance under heavy workloads compared to the non-heatsink version.
- SPEED MEETS RELIABILITY. Enjoy heightened speed and reliability with up to 4,800 TBW<sup>3</sup> [8TB<sup>1</sup> model] endurance and our latest TLC 3D CBA NAND technology.
- CUSTOM WD\_BLACK™ HEATSINK. The custom WD\_BLACK™ heatsink is the lowest profile option on a PCIe® 5.0 drive with RGB lighting. Made from anodized aluminum, it delivers silent, fanless cooling and customizable lighting to match your build.
- SANDISK® SOFTWARE. Maximize your drive's performance, monitor its health, and keep it up to date with SANDISK® Dashboard<sup>5</sup> [Windows® only]. Plus, effortlessly migrate your data with Acronis® True Image™ for SANDISK® software.<sup>6</sup>

SANDISK™

## PRODUCT FEATURES

### EXPERIENCE THE BREAKNECK SPEED OF PCIe® GEN 5

Drastically enhance your gaming and content creation experience with the speed of PCIe® Gen 5.0x4 NVMe™ M.2 SSD technology – perfect for gaming, content creation, and loading models for AI-powered applications.

### ELEVATED PERFORMANCE OVER EXTENDED DURATIONS

An industry leader in power efficiency, when paired with the newly designed custom heatsink, the WD\_BLACK™ SN8100 SSD delivers sustained high performance for up to 15 times longer<sup>4</sup> under heavy workloads and intense thermals when compared to the non-heatsink version.

### CUSTOM WD\_BLACK™ HEATSINK

Purpose-built for next-level performance, the custom WD\_BLACK™ heatsink is the lowest profile heatsink available on a PCIe® 5.0 drive with integrated RGB lighting. Constructed from anodized aluminum and optimized for efficient, silent cooling, it requires no fans or additional power. The sleek design includes a customizable RGB light, allowing you to match your build's aesthetic.

### BLISTERING SPEEDS COMBINED WITH IMMENSE CAPACITIES

With the help of our nCache™ 4.0 feature, the WD\_BLACK™ SN8100 SSD reaches sequential read speeds up to an astonishing 14,900MB/s,<sup>2</sup> sequential write speeds up to 14,000MB/s,<sup>2</sup> and over 2,300,000 IOPS<sup>3</sup> of random performance [2TB – 4TB<sup>1</sup>], all while offering up to a massive 8TB<sup>1</sup> of capacity.

### SPEED MEETS RELIABILITY

With up to 4,800 TBW<sup>3</sup> [8TB<sup>1</sup> model] endurance and our latest TLC 3D CBA NAND technology, you get heightened speeds and reliability. Meaning, you can handle even the most intense tasks, such as gaming, video editing, live streaming, and AI workloads.

### YOU CAN DO MORE WITH SANDISK® SOFTWARE

The downloadable SANDISK® Dashboard<sup>5</sup> [Windows® only] monitors your drive's health, helps keep your drive up to date, and lets you customize your heatsink's RGB light, all in one place. Plus, the SANDISK® Dashboard<sup>5</sup> can automatically turn on Game Mode to boost performance when it detects you're booting up a game. Effortlessly migrate your data from your previous drive to the WD\_BLACK™ SN8100 SSD with Acronis® True Image™ for SANDISK® software.<sup>6</sup>

## PRODUCT SPECIFICATIONS

CAPACITIES <sup>2</sup> :	8TB	4TB	2TB	1TB
MODEL NUMBERS:	WDS800T1XHM-00CMT0	WDS400T1XHM-00CMT0	WDS200T1XHM-00CMT0	WDS100T1XHM-00CMT0
FORM FACTOR	M.2 2280			
INTERFACE	PCIe® GEN 5X4 NVMe™ 2.0			
NAND	TLC 3D CBA NAND			
DRAM	Yes			
PERFORMANCE <sup>2</sup>				
Sequential Read [up to]	14,900MB/s	14,900MB/s	14,900MB/s	14,900MB/s
Sequential Write [up to]	13,200MB/s	14,000MB/s	14,000MB/s	11,000MB/s
Random Read [up to]	2.2M IOPS	2.3M IOPS	2.3M IOPS	1.6M IOPS
Random Write [up to]	2.4M IOPS	2.4M IOPS	2.4M IOPS	2.4M IOPS
POWER <sup>2</sup>				
Average Active Power Read	7.1W	6.5W	6.4W	6.2W
Average Active Power Write	7.3W	7.0W	7.0W	6.1W
Sleep [PS4]	5mW			
RELIABILITY				
Endurance <sup>3</sup> [TBW]	4,800	2,400	1,200	600
MTTF up to [hours]	1.75M Hours			
Limited Warranty <sup>8</sup>	5 years			
STANDARDS				
Compatibility	Backwards compatible with PCIe® Gen4 x4, PCIe® Gen4 x2, PCIe® Gen4 x1, PCIe® Gen3 x4, PCIe® Gen3 x2, PCIe® Gen3 x1, PCIe® Gen2 x4, PCIe® Gen2 x2 and PCIe® Gen2 x1, Windows® 10+			
RoHS COMPLIANCE	YES			
SECURITY	TCG OPAL 2.02			
ENVIRONMENTAL				
Operating Temperature <sup>9</sup>	32°F to 185°F [0°C to 85°C]			
Non-Operating Temperature <sup>10</sup>	-40°F to 185°F [-40°C to 85°C]			
Dimensions <sup>7</sup>	Length	Width	Height	Weight
1-4TB <sup>1</sup>	80mm	25mm	9.76mm	31.2g
8TB <sup>1</sup>	80mm	25mm	11.25mm	

<sup>1</sup> 1TB = one trillion bytes. Actual user capacity may be less depending on operating environment.

<sup>2</sup> Based upon read speed, unless otherwise stated. 1MB/s = 1 million bytes per second. IOPS = input/output operations per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

<sup>3</sup> Projected values. TBW [Terabytes written] values calculated using JEDEC client workload [JESD219] and vary by product capacity.

<sup>4</sup> WD\_BLACK SN8100 SSD (1TB model) with heatsink takes over 15 times longer to throttle compared to the non-heatsink version at 65°C ambient temperature. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

<sup>5</sup> Available for download at [sandisk.com/support](http://sandisk.com/support)

<sup>6</sup> Download and installation required. Includes 5-year license for your compatible drive. Redeem within 90 days of purchase. May not be combined with other offers. Limited time offer; see [sandisk.com/support](http://sandisk.com/support) for more details. Offer subject to change.

<sup>7</sup> Physical product dimensions for length and width may vary by ± 0.15mm and product weight may vary by ± 1g.

<sup>8</sup> 5 years or Max Endurance [TBW] limit, whichever occurs first. See [support.sandisk.com](http://support.sandisk.com) for region-specific warranty details.

<sup>9</sup> 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 60°C.

<sup>10</sup> Non-operational storage temperature does not guarantee data retention.



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