WD_BLACK™

WD_BLACK™ SN8100 NVMe™ SSD

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[2] 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 harnesses advanced TLC 3D CBA NAND technology to help ensure performance and reliability, while a low-power profile and optimized thermal performance keep your system cool and running smoothly. With up to 8TB[1] 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, content creation, and AI workloads with this PCIe® Gen 5.0x4 NVMe™ M.2 SSD.
- BREAKNECK SPEEDS. Your drive reaches sequential read speeds up to an astonishing 14,900MB/s[2], sequential write speeds up to 14,000MB/s[2], and over 2,300,000 IOPS[2] of random performance [2TB – 4TB[1] models].
- AN INDUSTRY-LEADER IN POWER EFFICIENCY. Enjoy over 100% more power efficiency [1TB – 4TB[1] models] than our PCIe® Gen4[4] drive at an average operating power of 7.5W[2] or under. Experience astonishing speeds without any added stress to your system.
- SPEED MEETS RELIABILITY. Reach heightened speed and reliability with up to 4,800 TBW[3] [8TB[1] model] endurance and our latest TLC 3D CBA NAND technology.
- ROOM FOR REVOLUTION. Hold your biggest projects and still have room for OS updates, models for AI-powered applications, and your game library thanks to immense capacities up to 8TB.[1]
- SANDISK® SOFTWARE. Help maximize your drive's performance, monitor its health and keep it up to date with SANDISK® Dashboard[5] [Windows® only]. Plus, effortlessly migrate your data with Acronis® True Image™ for SANDISK® software.[6]

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.

AN INDUSTRY-LEADER FOR PCIe® GEN 5 POWER EFFICIENCY
The WD_BLACK™ SN8100 SSD is over 100% more power efficient [1TB – 4TB[1] models] than our PCIe® Gen4[4] drive at an average operating power of 7.5W[2] or under, which helps make your rig simpler while delivering astonishing performance without any added stress to your system.

ROOM FOR REVOLUTION
Hold your biggest projects and still have room for all your updates, training datasets and models for AI-powered applications, and your media and game libraries thanks to immense capacities up to 8TB.[1] And with the latest security features like TCG Opal, you can help protect and encrypt your sensitive data.

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,[2] sequential write speeds up to 14,000MB/s,[2] and over 2,300,000 IOPS[2] of random performance [2TB – 4TB[1] models], all while offering up to a massive 8TB[1] of capacity.

SPEED MEETS RELIABILITY
With up to 4,800 TBW[3] [8TB[1] 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[5] [Windows® only] monitors your drive's health, helps keep your drive up to date, and can automatically turn on Game Mode for peak performance when it detects you're booting up a game. Effortlessly migrate your data from your previous drive to the SN8100 with Acronis® True Image™ for SANDISK® software.[6]

PRODUCT SPECIFICATIONS

CAPACITIES[1]: / MODEL NUMBERS:	8TB WDS800T1X0M-00CMT0	4TB WDS400T1X0M-00CMT0	2TB WDS200T1X0M-00CMT0	1TB WDS100T1X0M-00CMT0
FORM FACTOR	M.2 2280			
INTERFACE	PCIe® GEN 5X4 NVMe™ 2.0			
NAND	TLC 3D CBA NAND			
DRAM	Yes			
PERFORMANCE[2]				
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[2]				
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[3] [TBW]	4,800	2,400	1,200	600
MTTF up to [hours]	1.75M Hours			
Limited Warranty[8]	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[9]	32ºF to 185ºF [0ºC to 85ºC]			
Non-Operating Temperature[10]	-40ºF to 185ºF [-40ºC to 85ºC]			
Dimensions[7]	Length	Width	Height	Weight
1-4TB[1]	80mm	22mm	2.38mm	7.5g
8TB[1]	80mm	22mm	3.88mm	8.6g

[1] 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.
[2] 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.
[3] Projected values. TBW [Terabytes written] values calculated using JEDEC client workload [JESD219] and vary by product capacity.
[4] Over 100% more power efficient than 1TB, 2TB, and 4TB WD_BLACK SN850X NVMe™ SSDs.
[5] Available for download at sandisk.com/support
[6] 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 for more details. Offer subject to change.
[7] Physical product dimensions for length and width may vary by ± 0.15mm and product weight may vary by ± 1g.
[8] 5 years or Max Endurance [TBW] limit, whichever occurs first. See support.sandisk.com for region-specific warranty details.
[9] 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.
[10] Non-operational storage temperature does not guarantee data retention.

SANDISK™

September 2025

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