

## WD\_BLACK™ SN850X NVMe™ SSD

WD\_BLACK™

## Retail Setup Sheet

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<b>Product Brand Name</b>	<b>WD_BLACK™ SN850X NVMe™ SSD</b>
<b>Product Category</b>	Gaming SSD Storage
<b>Headline</b>	The Ultimate X Factor
<b>Product Title</b> (32-and 100-characters)	<p>32 characters: WD_BLACK™ SN850X NVMe™ SSD Gaming Storage, 1TB<sup>1</sup></p> <p>32 characters: WD_BLACK™ SN850X NVMe™ SSD Gaming Storage, 2TB<sup>1</sup></p> <p>32 characters: WD_BLACK™ SN850X NVMe™ SSD Gaming Storage, 4TB<sup>1</sup></p> <p>32 characters: WD_BLACK™ SN850X NVMe™ SSD Gaming Storage with Heatsink, 1TB<sup>1</sup></p> <p>32 characters: WD_BLACK™ SN850X NVMe™ SSD Gaming Storage with Heatsink, 2TB<sup>1</sup></p> <p>100 characters: WD_BLACK™ SN850X NVMe™ SSD Gaming Storage, 1TB<sup>1</sup></p> <p>100 characters: WD_BLACK™ SN850X NVMe™ SSD Gaming Storage, 2TB<sup>1</sup></p> <p>100 characters: WD_BLACK™ SN850X NVMe™ SSD Gaming Storage, 4TB<sup>1</sup></p> <p>100 characters: WD_BLACK™ SN850X NVMe™ SSD Gaming Storage with Heatsink, 1TB<sup>1</sup></p> <p>100 characters: WD_BLACK™ SN850X NVMe™ SSD Gaming Storage with Heatsink, 2TB<sup>1</sup></p>
<b>Product Overview</b>	<p>Strap in for breakneck gaming speeds with the WD_BLACK™ SN850X NVMe™ SSD. Crush load times and slash throttling, lagging, and model pop-ins for a smooth, fast experience that lets you compete at your absolute peak. This purpose-built gaming drive comes in capacities of 1TB to 4TB<sup>1</sup>, with an optional heatsink on the 1TB and 2TB drives to help sustain top-end performance for more consistent gameplay. With the advanced features of Game Mode 2.0 (Windows® only) plus speeds that approach the limits of the PCIe® Gen4<sup>3</sup> interface, the WD_BLACK SN850X NVMe SSD delivers top-tier performance to keep you playing, streaming, recording, and dominating the game.</p>
<b>Feature Bullets</b> (Place at top of product page, above the fold. Listed in order of importance.)	<ul style="list-style-type: none"> <li>• Get the ultimate gaming edge over your competition with insane speeds up to 7,300 MB/s<sup>2</sup> for top-level performance and ridiculously short load times.</li> <li>• Soup up your gaming experience with extremely low latency that loads graphics fast with minimal stutter and lagging for smooth, satisfying action.</li> <li>• A range of capacities from 1TB to 4TB<sup>1</sup> means you get to keep more of today's games that can take up 200GB<sup>1</sup> or more of storage.</li> <li>• The 1TB and 2TB<sup>1</sup> drives have an optional version with RGB lighting plus heatsink to help maintain peak performance through the most intense gaming sessions.</li> <li>• Game Mode 2.0 serves up even more PC performance-boosting features like load prediction to ready game assets for fast in-game loading.</li> <li>• Output approaching the limits of the PCIe® Gen4<sup>3</sup> interface helps you get ultra-fast performance out of your storage and system components.</li> </ul>
<b>Long, full-feature copy</b>	<p><b>Get the Ultimate Gaming Edge</b></p> <p>Insane speeds up to 7,300 MB/s<sup>2</sup> deliver top-tier performance with ridiculously short load times for the elite gaming experience you've been waiting for.</p> <p><b>Soup Up Your Rig</b></p> <p>Extremely low latency loads graphics fast with minimal stutter and lagging for an incredibly smooth, satisfying gaming experience.</p> <p><b>More Room for More Games</b></p> <p>Today's A-list titles can take up 200GB<sup>1</sup> or more of storage. A range of capacities from 1TB to 4TB<sup>1</sup> means you get to keep more games at the ready and get into the action fast.</p> <p><b>Heatsink for the Win</b></p> <p>The WD_BLACK™ SN850X NVMe™ SSD 1TB and 2TB<sup>1</sup> drives have an optional heatsink version that not only looks awesome but also helps your rig maintain peak performance through the most intense gaming sessions.</p> <p><b>Game Mode 2.0</b></p> <p>The latest version of Game Mode serves up even more PC performance-boosting features like load prediction to ready game assets for fast in-game loading.</p> <p><b>Near-Max PCIe® Gen4<sup>3</sup> Speeds</b></p> <p>The WD_BLACK™ SN850X NVMe™ SSD delivers output approaching the limits of the PCIe® Gen4 interface to help you get ultra-fast performance out of your storage and system components.</p>
<b>Performance Specs</b>	<p>Sequential Read - Up to 7,300MB/s<sup>2</sup></p> <p>Sequential Write - Up to 6,600MB/s<sup>2</sup> (2TB and 4TB models only)</p> <p>Random Read [4KB] - Up to 1,200K IOPS (2TB and 4TB models only)</p> <p>Random Write [4KB] - Up to 1,100K IOPS</p>
<b>Compatibility</b>	<p><b>System Requirements</b></p> <ul style="list-style-type: none"> <li>• Computer with M.2 (M-key) port, capable of taking M.2 2280 form factor</li> <li>• Windows® 11, 10, 8.1</li> <li>• PlayStation® 5 (Heatsink model only)<sup>4</sup></li> </ul> <p>Note: Compatibility may vary depending on user's hardware configuration and operating system.</p>
<b>Keywords</b>	SSD, solid state drive, NVMe SSD, storage, PCIe SSD, performance SSD, high-performance SSD, desktop SSD, PC, best SSD, fast SSD, reliable SSD, best performance SSD, WD Black, WD Black, gaming SSD, gen4 ssd
<b>Disclosures/ Footnotes</b>	<p>1. 1GB = 1 billion bytes and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.</p> <p>2. Based on read speed, unless otherwise stated. 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.</p> <p>3. PCIe Gen4 storage technology requires a compatible motherboard. WD_BLACK SN850X is backwards-compatible with PCIe Gen3.</p> <p>4. For PS5™ firmware compatibility, please visit <a href="http://wdblack.com/SN850HS-PS5">http://wdblack.com/SN850HS-PS5</a>.</p> <p>Western Digital, the Western Digital design, the Western Digital logo, WD_BLACK, and the WD_BLACK logo are registered trademarks or trademarks of Western Digital Corporation or its affiliates in the U.S. and/or other countries. NVMe is a trademark of NVM Express, Inc. PCIe is a trademark of PCI-SIG in the United States and/or other countries. PlayStation and PS5 are registered trademarks or trademarks of Sony Interactive Entertainment Inc. in the United States and/or other countries. Windows is a trademark of Microsoft Corporation. All other marks are the property of their respective owners. Product specifications subject to change without notice. Pictures shown may vary from actual products.</p> <p>©2022 Western Digital Corporation or its affiliates. All rights reserved.</p>

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Gaming SSD Storage

Product Specifications	Interface M.2 2280 <sup>1</sup>	PCIe® Gen4 16GT/s, up to 4 Lanes		
	Formatted Capacity <sup>2</sup>	1TB	2TB	4TB
Performance <sup>3</sup>	Seq. Read 1MiB (MB/s) (1MiB Queue Depth=8, Threads=1)	7'300	7'300	7'300
	Seq. Write 1MiB (MB/s) (Queue Depth=8, Threads=1)	6'300	6'600	6'600
	Rand Read 4KB IOPS up to (Queue Depth=32, Threads=16)	800K	1,200K	1,200K
	Rand Write 4KB IOPS up to (Queue Depth=32, Threads=16)	1,100K	1,100K	1,100K
	Endurance <sup>4</sup> (TBW)	600	1200	2400
Power Specifications	Average Active Power <sup>5</sup>	65mW	65mW	65mW
	PS4	5mW	5mW	5mW
	Maximum Operating Power	6W	7W	8W
Reliability	MTTF <sup>6</sup>	1.75M Hours		
Environmental	Operating Temperatures <sup>7</sup>	32°F to 185°F (0°C to 85°C)		
	Non-operating Temperatures <sup>8</sup>	-40°F to 185°F (-40°C to 85°C)		
	Operating Vibration	5 gRMS, 10-2000 Hz, 3 axes		
	Non-operating Vibration	4.9 gRMS, 7-800 Hz, 3 axes		
	Shock	1,500G @0.5 ms half sine		
	Certifications	BSMI, CAN ICES-3(B)/NMB-3(B), CE, FCC, KCC, Morocco, RCM, TUV, UL, VCCI		
	Limited Warranty (years) <sup>9</sup>	5		
Physical Dimensions (Non-Heatsink)	Form Factor	M.2 2280		
	Length (max)	80 ± 0.15mm		
	Width (max)	22 ± 0.15mm		
	Height (max)	2.38mm		

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Packaging Specifications		English	Metric
Retail box size	Face width	4.00 in	101.60 mm
	Shelf depth	0.87 in	22.10 mm
	Face height	5.00 in	127.00 mm
Retail box weight	1TB, 2TB, 4TB (non Heatsink)	0.09 lb	40.82 g
	1TB, 2TB (w/ Heatsink)	0.13 lb	57.90 g
Master carton size	(L x W x H)	9.29x 4.37 x 5.57 in	236 x 111 x 144 mm
Master carton weight (max)	1TB, 2TB, 4TB (non Heatsink)	1.12 lb	0.508 kg
	1TB, 2TB (w/ Heatsink)	1.46 lb	0.66 kg
Retail boxes per master carton		10	10
Shipping carton		130 (13x10 pk)	130 (13x10 pk)
Layers per pallet		5	5
Shipping carton per pallet		20	20
Retail boxes per pallet		2600	2600
Pallet load size	(L x W x H)	48 x 40 x 4.7 in	1200 x 800 x 1500 mm
Pallet load weight (max)	1TB, 2TB, 4TB (non Heatsink)	357.4 lb	162.11 kg
	1TB, 2TB (w/ Heatsink)	465.20 lb	211 kg

**SHIPS IN 10PK.** WD ships one pallet configuration globally. Other pallet configurations may be available on customer's request. Please talk with your WD Sales representative for further information.

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REGION	CAPACITY*	DESCRIPTION	MODEL NUMBER	UPC	SCC-14
WORLDWIDE	1TB	WD_BLACK™ SN850X NVMe™ SSD Gaming Storage, 1TB <sup>1</sup>	WDBB9G0010BNC-WRSN	6 19659 19343 0	406 19659 19343 8
	2TB	WD_BLACK™ SN850X NVMe™ SSD Gaming Storage, 2TB <sup>1</sup>	WDBB9G0020BNC-WRSN	6 19659 19344 7	406 19659 19344 5
	4TB	WD_BLACK™ SN850X NVMe™ SSD Gaming Storage, 4TB <sup>1</sup>	WDBB9G0040BNC-WRSN	6 19659 19345 4	406 19659 19345 2
	1TB	WD_BLACK™ SN850X NVMe™ SSD Gaming Storage with Heatsink, 1TB <sup>1</sup>	WDBB9H0010BNC-WRSN	6 19659 19306 5	406 19659 19306 3
	2TB	WD_BLACK™ SN850X NVMe™ SSD Gaming Storage with Heatsink, 2TB <sup>1</sup>	WDBB9H0020BNC-WRSN	6 19659 19307 2	406 19659 19307 0

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

\* 1GB = 1 billion bytes and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.