

WD_BLACK SN850X WDS200T2X0E (WDS200T2X0E-00BCA0)

WD_BLACK SN850X WDS200T2X0E - SSD - encrypted - 2 TB - internal - M.2 2280 - PCIe 4.0 x4 (NVMe) - TCG Opal Encryption 2.01



The WD_BLACK SN850X is an internal solid state drive designed for gamers and professionals seeking speed and reliability. With a storage capacity of 2 TB, it delivers an internal data rate of up to 7300 MBps, ensuring reduced loading times and smooth gameplay. The M.2 2280 form factor allows for a compact design that fits into various compatible devices without occupying much space. This drive features advanced technologies such as Game Mode 2.0 to optimize performance and predictive loading to enhance overall system responsiveness. With support for Microsoft DirectStorage API, users can benefit from faster loading times in supported games. The drive incorporates adaptive thermal monitoring and overhead balancing to ensure optimal performance and longevity even under demanding conditions, operating within a wide temperature range from 0°C to 85°C. Equipped with hardware encryption and compliance with multiple standards, the WD_BLACK SN850X offers performance and security.

Key Selling Points

- 2 TB storage capacity for ample space
- Internal data rate of 7300 MBps for fast performance
- Game Mode 2.0 enhances gaming experience
- Supports Microsoft DirectStorage API for quick loading
- Includes adaptive thermal monitoring for reliability

Product Features

- Fast data transfer speeds**
Achieve internal data rates of up to 7300 MBps for quick file transfers, enhancing productivity and gaming experience.
- Optimized gaming performance**
Game Mode 2.0 prioritizes the drive's resources for the best possible gaming performance, reducing lag and load times.
- Robust thermal management**
Adaptive thermal monitoring ensures the SSD operates within safe temperature ranges, preventing overheating during intensive tasks.
- Secure data protection**
Hardware encryption with TCG Opal Encryption 2.01 safeguards sensitive information from unauthorized access.
- High endurance**
With an SSD endurance rating of 1200 TB, this drive is built to withstand extensive read/write cycles without degradation.

Main Specifications

Product Description	WD_BLACK SN850X WDS200T2X0E - SSD - 2 TB - PCIe 4.0 x4 (NVMe)
Type	Solid state drive - internal
Capacity	2 TB
Hardware Encryption	Yes
NAND Flash Memory Type	3D triple-level cell (TLC)
Form Factor	M.2 2280
Interface	PCIe 4.0 x4 (NVMe)
Features	Game Mode 2.0, Adaptive thermal monitoring, overhead balancing, predictive loading, Microsoft DirectStorage API support
Dimensions (WxDxH)	22 mm x 80 mm x 2.38 mm
Weight	7.5 g
Manufacturer Warranty	5-year warranty

Extended Specification

General

Device Type	Solid state drive - internal
Capacity	2 TB
Hardware Encryption	Yes
NAND Flash Memory Type	3D triple-level cell (TLC)
Form Factor	M.2 2280

Interface	PCIe 4.0 x4 (NVMe)
Features	Game Mode 2.0, Adaptive thermal monitoring, overhead balancing, predictive loading, Microsoft DirectStorage API support
Width	22 mm
Depth	80 mm
Height	2.38 mm
Weight	7.5 g

Manufacturer Warranty

Service & Support	Limited warranty - 5 years
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Miscellaneous

Compliant Standards	RoHS, BSMI, CAN ICES-3(B)/NMB3(B), FCC, KCC, Morocco, RCM, TUV, UL, VCCI
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Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	85 °C
Min Storage Temperature	-40 °C
Max Storage Temperature	85 °C

Performance

SSD Endurance	1200 TB
Internal Data Rate	7300 MBps (read) / 6600 MBps (write)
4KB Random Read	1200000 IOPS
4KB Random Write	1100000 IOPS

Software & System Requirements

Software Included	WD_BLACK Dashboard (Windows only)
OS Required	Microsoft Windows 10 or later

Expansion & Connectivity

Interfaces	1 x PCI Express 4.0 x4 (NVMe) - M.2 M key
Compatible Bay	M.2 2280

What's in the box

WD_BLACK SN850X WDS200T2X0E - solid state drive

Software

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