Model Number: WDBDNH5000ABK-WRSN

**WD\_BLACK SN770M NVMe™ SSD - 500GB**

4.6 out of 5 stars, average rating value. Read 5 Reviews. Same page link.

4.6

(5)

Write a review

Expand your handheld gaming device or M.2 2230 compatible laptop’s storage with the WD\_BLACK SN770M NVMe SSD with up to 2TB[1](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH5000ABK-WRSN#disclosures1) of storage. This M.2 2230 ... [See more](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH5000ABK-WRSN#product-highlights)

Capacity

* 500GB
* 1TB
* 2TB

**$84.99Price $84.99**

Add to Cart

Compare

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Free standard shipping on eligible orders of $50+. [Details](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH5000ABK-WRSN#store-value-prop-non-login)

Free 30-Day Returns [Learn More](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH5000ABK-WRSN#value-prop-buy-direct-std-returns-modal)

Guaranteed Authentic Products

5000MB/s

**Sequential Read Performance**

PCIe Gen4 x4

**Interface**

5-Year Limited Warranty

**Warranty**

**Level Up with WD\_BLACK M.2 2230 NVMe SSD**

Expand your handheld gaming device or M.2 2230 compatible laptop’s storage with the WD\_BLACK SN770M NVMe SSD with up to 2TB[1](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH5000ABK-WRSN#disclosures1) of storage. This M.2 2230 SSD is equipped with PCIe® Gen 4.0[3](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH5000ABK-WRSN#disclosures3) delivering speeds up to 5,150 MB/s[2](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH5000ABK-WRSN#disclosures2) (1TB and 2TB[1](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH5000ABK-WRSN#disclosures1) models), Western Digital’s nCache™ 4.0 Technology and Microsoft’s DirectStorage Support. Enabling you to bring and play your large game library wherever you are while allowing you to immerse yourself with blazingly quick game installations and level loads. For extra peace of mind, use the Western Digital Dashboard (Windows® only) software to keep your drive tuned up.

**PLAY WITH CONFIDENCE**  
Introducing the WD\_BLACK SN770M SSD, the first M.2 2230 NVMe SSD built from a brand gamers trust.

**SUPERCHARGE YOUR HANDHELD GAMING DEVICE**  
Upgrade compatible handheld devices such as the ASUS™ ROG Ally™ and Steam® Deck with speeds up to 5,150 MB/s[2](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH5000ABK-WRSN#disclosures2) (1TB and 2TB[1](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH5000ABK-WRSN#disclosures1) models) for blazingly quick game installations and level loads.

**GAME MORE ON THE GO**  
Take your large game library wherever you are with up to 2TB[1](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH5000ABK-WRSN#disclosures1) of trusted Western Digital TLC NAND storage.

**UNCOMPROMISING FEATURES**  
Get ready for an immersive experience with exclusive gaming features including PCIe® Gen 4.0[3](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH5000ABK-WRSN#disclosures3), Western Digital's nCache™ 4.0 Technology, and Microsoft’s DirectStorage Support.

**ALSO COMPATIBLE WITH ULTRATHIN PCs**  
Revitalize and expand the storage of your M.2 2230 SSD compatible laptop such as many Microsoft® Surface and Dell™ models.

**A TRUSTED GAMING BRAND**  
Backed by Western Digital's 5-year limited warranty[4](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH5000ABK-WRSN#disclosures4), keep your drive tuned with the Western Digital Dashboard (Windows®only) software.

**Specifications**

**Capacity**

500GB

**Form Factor**

M.2 2230

**Connector**

M.2

**Sequential Read Performance**

5000MB/s

**Sequential Write Performance**

4000MB/s

**Random Read**

460K IOPS

**Random Write**

800K IOPS

**Interface**

PCIe Gen4 x4

**Warranty**

5-Year Limited Warranty

**Endurance (TBW)**

300

**Dimensions (L x W x H)**

1.18" x 0.87" x 0.09"

**Weight**

2.8gms

**Model Number**

WDBDNH5000ABK-WRSN

**Operating Temperature**

32°F to 185°F

**Non-Operating Temperature**

-40°F to 185°F

**Product Features**

* Supercharge compatible handheld devices such as the ASUS™ ROG Ally™ and Valve® Steam® Deck for faster loading and installation
* Play more games wherever you are with up to 2TB of trusted Western Digital TLC 3D NAND storage.
* Exclusive gaming features including PCIe® Gen 4.0, Western Digital's nCache 4.0 technology, and Microsoft’s DirectStorage Support

**Compatibility**

* Computer with M.2 (M-key) port, capable of taking M.2 2230 form factor
* Windows® 10+

**In The Box**

WD\_BLACK SN770M M.2 2230 NVMe SSD

**Model Numbers**

**500GB:** [WDBDNH5000ABK-WRSN](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH5000ABK-WRSN)

**1TB:** [WDBDNH0010BBK-WRSN](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH0010BBK-WRSN)

**2TB:** [WDBDNH0020BBK-WRSN](https://shop.sandisk.com/products/ssd/internal-ssd/wd-black-sn770m-nvme-ssd?sku=WDBDNH0020BBK-WRSN)

**Ratings & Reviews**

**Reviews**

The trustmark icon that reveals a popup describing BV authenticity

Rating Snapshot

Select a row below to filter reviews.

5 starsstars

4

4 reviews with 5 stars.

4 starsstars

0

0 reviews with 4 stars.

3 starsstars

1

1 review with 3 stars.

2 starsstars

0

0 reviews with 2 stars.

1 starstars

0

0 reviews with 1 star.

Overall Rating

4.6

5 Reviews

2 out of 3 (67%) reviewers recommend this product

Review this Product

Select to rate the item with 1 star. This action will open submission form.

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Select to rate the item with 3 stars. This action will open submission form.

Select to rate the item with 4 stars. This action will open submission form.

Select to rate the item with 5 stars. This action will open submission form.

Adding a review will require a valid email for verification

Average Customer Ratings

Quality

Quality, 5.0 out of 5

5.0

Value

Value, 5.0 out of 5

5.0

Ease Of Use

Ease Of Use, 5.0 out of 5

5.0

Performance

Performance, 5.0 out of 5

5.0

Filter Reviews

Search topics and reviews search region

Rating

Locale

1 to 4 of 5 Reviews

1 – 4 of 5 Reviews

 Relevancy InfoDisplay a popup with information about Relevancy Sort.

Sort by

Most Relevant

5 out of 5 stars.

Perfect upgrade for Asus Rog Ally z1 Extreme

Johnnie

3 hours ago

Bought the sn770m 2230 2tb ssd for my Rog Ally z1 Extreme works great almost 9 months and not one issue

Helpful?

(0)

(0)

Report

Quality

Quality, 5.0 out of 5

5.0

Value

Value, 5.0 out of 5

5.0

Ease Of Use

Ease Of Use, 5.0 out of 5

5.0

Performance

Performance, 5.0 out of 5

5.0

5 out of 5 stars.

Endless reboots until I updated the firmware

**cptmcnair**

5 months ago

I replaced the 256GB SSD in a Surface Pro 7+. I tried loading an image from the Surface Pro support page and I tried loading Windows 10 & 11 from just the Microsoft site that were not specific to the Surface Pro. I kept having random reboots. It would stay on 25 minutes then reboot then reboot again after it restarted. I finally remembered to check this site for firmware/drivers. Once I installed the firmware update, NO MORE REBOOTS. I hope this helps someone else remember firmware updates

Originally posted on Western Digital

5 out of 5 stars.

Don't turn it off.

**UncleBud**

8 months ago

Used this to expand my memory in a surface pro 8. Unstable at first. Clock\_Stop\_WatchDog errors. Reboots, etc... Windows has a power saving feature that turns off the drive when not in use. This drive when used with windows 11 doesn't like that. Make sure power management doesn't turn the drive off. Doing great now.

Yes, I recommend this product.

Originally posted on Western Digital

3 out of 5 stars.

All SSD have bugs. Here is the bug I experienced

**steamdeckuser**

8 months ago

I am not sure how to rate SSD in general. I have one only one event where I needed for force shutdown my steam deck in the last 5 months. I brought this SSD because WD marketing material advertised great compatibility between this SSD and the Steam deck. [78822.342590] pcieport 0000:00:01.2: AER: Multiple Corrected error message received from 0000:01:00.0 [78822.342615] nvme 0000:01:00.0: PCIe Bus Error: severity=Corrected, type=Data Link Layer, (Receiver ID) [78822.342622] nvme 0000:01:00.0: device [15b7:5042] error status/mask=00000040/0000e000 [78822.342629] nvme 0000:01:00.0: [ 6] BadTLP [78883.974075] pcieport 0000:00:01.2: AER: Corrected error message received from 0000:01:00.0 [78883.974099] nvme 0000:01:00.0: PCIe Bus Error: severity=Corrected, type=Physical Layer, (Receiver ID) [78883.974105] nvme 0000:01:00.0: device [15b7:5042] error status/mask=00000001/0000e000 [78883.974112] nvme 0000:01:00.0: [ 0] RxErr This quirk did not work around the issue. NVME\_QUIRK\_NO\_DEEPEST\_PS - nvme\_core.default\_ps\_max\_latency\_us=0

No, I do not recommend this product.

Originally posted on Western Digital

Response from Western Digital:

8 months ago

**SM OLS**

Hello, We are sorry to hear about your user experience with WD\_Black SN770M NVMe Internal SSD and appreciate your time providing this review and bringing this matter to our attention. We do apologize if you are having any issues with your drive. We would recommend reaching out to our Technical Support team, as we would be glad to assist you with any troubleshooting options that the drive may have. We would request you to open a support ticket with brief query and possible errors screenshots. Please refer to the link mentioned:https://support-en.wd.com/app/ask/session/ the customer support team get back to you in a earliest possible time. All our products must pass our stringent quality standards before leaving our factory to be free from defects in materials and craftsmanship. We stand behind our products throughout the device's factory warranty period. You can contact us directly via phone to address any questions or concerns to ensure good overall user experience. Need Help? Please see our "'Contact Us" page for information.

1 – 4 of 5 Reviews