

SANDISK OPTIMUS™ GX

7100M

M.2 2230 NVMe™ SSD
PCIe® 4.0 x4

THE HANDHELD GAMING SSD BUILT FOR THE BEST ON-THE-GO GAMING EXPERIENCE.

Game even faster on-the-go with the SANDISK Optimus™ GX 7100M NVMe™ SSDs with PCIe® 4.0. Boasting Sequential Read/Write speeds up to 7,250/6,900 MB/s² and integrated SANDISK® nCache™ 4.0 technology, you can upgrade your compatible Steam® Deck, MSI® Claw, Microsoft® Surface, or Dell® laptop with capacities up to 2TB¹ on M.2 2230. With a power-efficient architecture built for handheld gaming consoles and laptops, conquer hardcore gaming sessions while on-the-go.



KEY FEATURES

- **AN SSD THAT DOESN'T BACK DOWN**
Experience an exhilarating boost with level-conquering PCIe® 4.0 Sequential Read/Write speeds up to 7,250/6,900 MB/s². Reduce load times for applications and immersive games, including those supported by Microsoft® DirectStorage.
- **MOVING ON TO THE NEXT LEVEL**
Improve system responsiveness and help minimize game lag with Random Read/Write speeds up to 1M/1.3M IOPS² and integrated SANDISK® nCache™ 4.0 technology.
- **EXPAND YOUR GAME LIBRARY WITHOUT WORRY**
Available in capacities up to 2TB¹ on M.2 2230, you have ample storage for the latest games. Powered by our 8th generation SANDISK® BiCS TLC 3D CBA NAND.
- **CLEAR THAT CHECKPOINT**
With a power-efficient architecture, you can clear that checkpoint before your battery taps out.
- **INCLUDED SANDISK® SOFTWARE**
Keep your drive updated and enable Game Mode with SANDISK® Dashboard (Windows® only).⁶ Migrate to your new drive with Acronis® True Image™ for SANDISK®.⁷

PRODUCT FEATURES

AN SSD THAT DOESN'T BACK DOWN

Experience an exhilarating boost with level-conquering Sequential Read/Write speeds up to 7,250/6,900 MB/s². Equipped with a PCIe® 4.0 interface, the SANDISK Optimus™ GX 7100M NVMe™ SSD enables you to take on the next wave of AAA game titles anywhere you go.

EXPAND YOUR HANDHELD CONSOLE'S CAPACITY

Upgrade your compatible Steam® Deck, MSI® Claw, Microsoft® Surface, or Dell® laptop with capacities up to 2TB¹ on M.2 2230 for the latest AAA games, built with our 8th generation SANDISK® BiCS TLC 3D CBA NAND.

TUNE YOUR DRIVE WITH SANDISK® SOFTWARE

Keep your drive updated, monitor your drive's performance, and enable Game Mode with SANDISK® Dashboard (Windows® only).⁶ Includes Acronis® True Image™ for SANDISK® software to help you migrate to your new drive.⁷

MOVING ON TO THE NEXT LEVEL

Improve system responsiveness and help minimize game lag with Random Read/Write speeds up to 1M/1.3M IOPS² and integrated SANDISK® nCache™ 4.0 technology. Making your PC ready to handle future immersive games, including those supported by Microsoft® DirectStorage.

CLEAR THAT CHECKPOINT

With a power-efficient architecture, you can clear that checkpoint or wrap that project before your battery taps out. Conquer your gaming sessions while on-the-go.

PRODUCT SPECIFICATIONS				
CAPACITIES ¹	1TB		2TB	
MODEL NUMBERS	SDSP71100TAT		SDSP71200TAT	
FORM FACTOR	M.2 2230-S3-M			
INTERFACE ¹⁰	PCIe® 4.0 x4 NVMe™ 2.0			
NAND	SANDISK® TLC 3D CBA NAND			
DRAM CACHE	Host Memory Buffer			
SLC CACHE	SANDISK® nCache™ 4.0			
PERFORMANCE ²				
Sequential Read 1MB (MB/s) up to (Queue Depth=8, Threads=1)	7,250MB/s		7,250MB/s	
Sequential Write 1MB (MB/s) up to (Queue Depth=8, Threads=1)	6,900MB/s		6,900MB/s	
Random Read 4KB (IOPS) up to (Queue Depth=32, Threads=16)	1M IOPS		1M IOPS	
Random Write 4KB (IOPS) up to (Queue Depth=32, Threads=16)	1.3M IOPS		1.3M IOPS	
POWER ³				
Average Active Power Read	3.5 W		3.7 W	
Average Active Power Write	3.8 W		4.0 W	
Sleep (PS4)	5 mW			
RELIABILITY				
Endurance ⁴ (TBW)	600		1,200	
MTTF ⁴ up to (hours)	1,75M Hours			
Limited Warranty ⁵	5 years			
REGULATORY				
Certifications	BSMI, CAN ICES-3(B)/NMB-3(B), CB-Scheme, CE, FCC, KCC, Morocco, RCM, TÜV, UL, VCCI, UKCA			
RoHS Compliance	Yes			
SECURITY ¹¹	TCG Pyrite 2.01, ATA Security passthrough over NVMe™			
FEATURED SOFTWARE	SANDISK® Dashboard ⁶ (Windows® only), Acronis® True Image™ for SANDISK® software ⁷			
ENVIRONMENTAL				
Operating Temperature ⁸	32°F to 185°F (0°C to 85°C)			
Non-Operating Temperature ⁸	-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			
DIMENSIONS ⁹				
	Length	Width	Height	Weight
1TB-2TB ¹	30mm	22mm	2.38mm	2.8g

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

² 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 Average Power - Read and Average Power - Write are measured using IOMeter 1.1.0 during a burst sequential read and write operation (measured separately) and represent a moving average over a 10 second period. Performance may vary depending on test setup, configuration and firmware version.

⁴ TBW (terabytes written) values calculated using JEDEC client workload (JESD219) and vary by product capacity. MTTF = Mean Time To Failure based on internal testing using Telcordia™ stress part testing (Telcordia SR-332, GF, 25°C). MTTF is based on a sample population and is estimated by statistical measurements and acceleration algorithms. MTTF does not predict an individual drive's reliability and does not constitute a warranty.

⁵ 5 years or Max Endurance (TBW) limit, whichever occurs first. See support.sandisk.com for region-specific warranty details.

⁶ Available for download at sandisk.com/support

⁷ Download, installation, and administrative privileges required. Includes 5-year license for your compatible drive. Redeem within 90 days of purchase. Terms and conditions apply. User account registration may be required. May not be combined with other offers. Limited time offer; see sandisk.com/support for more details. Offer subject to change.

⁸ 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. Non-operational storage temperature does not guarantee data retention.

⁹ Physical product dimensions for length and width may vary by ± 0.15mm and product weight may vary by ± 1g.

¹⁰ Backwards compatible with PCIe® 3.0 x4, 3.0 x2, 3.0 x1, 2.0 x4, 2.0 x2 and 2.0 x1.

¹¹ Requires motherboard BIOS or third-party software to enable.



SANDISK, the SANDISK logo, SANDISK Optimus, and nCache are registered trademarks or trademarks of Sandisk Corporation or its affiliates in the U.S. and/or other countries. Acronis and True Image are registered trademarks of Acronis International GmbH in the United States and other countries. Windows and Microsoft are registered trademarks of the Microsoft group of companies. The NVMe word mark is a trademark of NVM Express, Inc. PCIe® is a registered trademark of PCI-SIG. All other marks are the property of their respective owners. Product specifications subject to change without notice. Pictures shown may vary from actual products.
© 2025 Sandisk Corporation or its affiliates. All rights reserved.