

Big Gaming Performance Delivered in a Small Drive



FireCuda 520N SSD

Big Gaming Performance Delivered in a Small Drive



FireCuda® 520N is an ultra-small, reliable, high-capacity NVMe SSD that elevates the performance of your Valve Steam Deck, ASUS ROG Ally, Lenovo Legion Go, Microsoft® Surface, and other portable devices with M.2 2230 slots. Reach high speeds of up to 5,000 MB/s with 2 TB capacity. Bring desktop gaming performance to handheld devices. Back up and store easily. Plus, protect everything with three-year Rescue Data Recovery Services and a five-year warranty.



Key Features

Gaming Upgrade

Ultra-small, reliable NVMe SSD elevates the performance of your Steam Deck, Microsoft Surface, laptop, or other gaming device.

High-Octane Speeds

High-speed performance — up to 5,000 MB/s with 2 TB and 4800 MB/s with 1 TB capacity.

Enormous Capacity

1 TB or 2 TB SSD capacity stores everything on your M.2 2230 devices.

Big Gaming Performance Delivered in a Small Drive



FIRECUDA 520N SSD

BIG GAMING PERFORMANCE DELIVERED IN A SMALL DRIVE

Easy Compatibility

Backward compatible with Gen3 and Gen2 PCIe slots.

Powerful Performance

PCIe Gen 4 NVMe performance in M.2 2230 form factor, bringing the desktop gaming experience to your handheld gaming devices.

Ongoing Protection

Seagate's three-year Rescue Data Recovery Services and five-year, industry-leading warranty included.



RETAIL PACKAGING	BOX DIMENSIONS	MASTER CARTON DIMENSIONS	PALLET DIMENSIONS
Length (in/mm)	6.102 in/155 mm	11.496 in/292 mm	48.031 in/1220 mm
Width (in/mm)	4.291 in/109 mm	6.024 in/153 mm	40 in/1016 mm
Depth (in/mm)	0.945 in/24 mm	5.512 in/140 mm	44.764 in/1137 mm
Weight (lb/kg)	0.154 lb/0.07 kg	2.138 lb/0.97 kg	396.832 lb/180 kg

QUANTITIES	
Boxes per Master Carton	10
Master Cartons per Pallet	168
Pallet Layers	7

SYSTEM REQUIREMENTS	WHAT'S INCLUDED
<ul style="list-style-type: none">M.2 (M key) slot, PCIe® G4 x4 interface (backwards compatible with PCIe G3 interface)Windows® 11, Windows 10Linux	<ul style="list-style-type: none">Seagate® FireCuda® 520N SSD

REGION	MODEL NUMBER	CAPACITY	LIMITED WARRANTY (YEARS)	UPC CODE	EAN CODE	MULTI-PACK UPC
WW	ZP1024GV3A002	1 TB	5	763649181713	8719706436700	10763649181710
WW	ZP2048GV3A002	2 TB	5	763649181720	8719706436717	10763649181727

Big Gaming Performance Delivered in a Small Drive

FIRECUDA 520N SSD
BIG GAMING PERFORMANCE DELIVERED IN A SMALL DRIVE

SPECIFICATIONS	2 TB	1 TB
Standard Model	ZP2048GV30002	ZP1024GV30002
Interface	PCIe Gen4 x4 NVMe 1.4	PCIe Gen4 x4 NVMe 1.4
Form Factor	M.2 2230-S2	M.2 2230-S2
PERFORMANCE		
Sequential Read (Max, MB/s), 1 MB ¹	5,000	4,800
Sequential Write (Max, MB/s), 1 MB ¹	3,200	4,700
Random Read (Max, IOPS), 4 KB QD32 T8 ¹	480,000	800,000
Random Write (Max, IOPS), 4KB QD32 T8 ¹	750,000	900,000
ENDURANCE/RELIABILITY		
Total Bytes Written (TB)	450	600
Mean Time Between Failures (MTBF, hours)	1.8M	1.8M
Rescue Data Recovery Services (years) ²	3	3
Warranty, Limited (years)	5	5
POWER MANAGEMENT		
Active Power, Average (W)	3.8	4.3
Idle Power PS3, Average (mW)	50	50
Low Power L1.2 mode (mW)	5	5
ENVIRONMENTAL		
Temperature, Operating Internal (°C)	0 to 70	0 to 70
Temperature, Non-operating (°C)	-40 to 85	-40 to 85
Shock, Non-operating: 0.5 ms (Gs)	1,500	1,500
SPECIAL FEATURES		
TRIM	Yes	Yes
S.M.A.R.T.	Yes	Yes
RoHS compliance	Yes	Yes
PHYSICAL		
Length (mm/in, max)	30.15 mm/1.187 in	30.15 mm/1.187 in
Width (mm/in, max)	22.15 mm/0.872 in	22.15 mm/0.872 in
Height (mm/in, max)	2.23 mm/0.087 in	2.23 mm/0.087 in
Weight (lb/g)	3 g/0.006 lb	3 g/0.006 lb

¹ Fresh out of box (FOB) performance obtained on newly formatted drive. Performance may vary based on SSD's firmware version, system hardware, and configuration. Performance based on CrystalDiskMark v.8.0.4 x64 on Windows 10 host with PCIe Gen4 motherboard.

² Rescue Data Recovery Services not available in all countries.

SEAGATE.COM

© 2023 Seagate Technology LLC. All rights reserved. Seagate, Seagate Technology, and the Spiral logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. FireCuda and the FireCuda logo are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. The PCIe word mark and/or PCIExpress design mark are registered trademarks and/or service marks of PCI-SIG. All other trademarks or registered trademarks are the property of their respective owners. When referring to drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes. Your computer's operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions, and thus will not be available for data storage. Actual data rates may vary depending on operating environment and other factors, such as chosen interface and disk capacity. Seagate reserves the right to change, without notice, product offerings or specifications. DS2.1-2308US