





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 Steam Deck, Microsoft® Surface, laptop, and other 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 4,750 MB/s with 1 TB capacity.

Enormous Capacity

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

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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.

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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		

- M.2 (M key) slot, PCle® G4 ×4 interface (backwards compatible with PCle G3 interface)
 Windows ® 11, Windows 10
- Linux

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

WHAT'S INCLUDED

Seagate[®] FireCuda[®] 520N SSD

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SPECIFICATIONS	2TB	1TB		
Standard Model	ZP2048GV30002	ZP1024GV30002		
Interface	PCIe Gen4 ×4 NVMe 1.4	PCIe Gen4 ×4 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 ×64 on Windows 10 host with PCIe Gen4 motherboard.

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² Rescue Data Recovery Services not available in all countries.