





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

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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



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.

FIRECUDA 520N SSD

BIG GAMING PERFORMANCE DELIVERED IN A SMALL DRIVE



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		

WHAT'S INCLUDED

Seagate[®] FireCuda[®] 520N SSD

SYSTEM REQUIRE

M.2 (M key) slot, PCIe[®] G4 ×4 interface (backwards compatible with PCIe 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

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SPECIFICATIONS	2ТВ	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 $^{\rm 1}$	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.

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