





# 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 5000MB/s with 2TB 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 5000MB/s with 2TB and 4750MB/s with 1TB capacity.

#### **Enormous Capacity**

1TB or 2TB 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)		6.102in/155mm	11.496in/292mm	48.031in/1220mm
Width (in/mm)		4.291in/109mm	6.024in/153mm	40in/1016mm
Depth (in/mm)		0.945in/24mm	5.512in/140mm	44.764in/1137mm
Weight (lb/kg)		0.154lb/0.07kg	2.138lb/0.97kg	396.832lb/180kg
QUANTITIES				
Boxes per Master Carton	10			
Master Cartons per Pallet	168			
Pallet Layers	7			

WHAT'S INCLUDED

Seagate<sup>®</sup> FireCuda<sup>®</sup> 520N SSD

#### SYSTEM REQUIREMENTS

- M.2 (M key) slot, PCIe<sup>®</sup> 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	2TB	1TB		
Standard Model	ZP2048GV30002	ZP1024GV30002		
Interface	PCIe Gen4 ×4 NVMe 1.4	PCle Gen4 ×4 NVMe 1.4		
Form Factor	M.2 2230-S2	M.2 2230-S2		
PERFORMANCE				
Sequential Read (Max, MB/s), 1MB <sup>1</sup>	5,000	4,800		
Sequential Write (Max, MB/s), 1MB <sup>1</sup>	3,200	4,700		
Random Read (Max, IOPS), 4KB QD32 T8 <sup>1</sup>	480,000	800,000		
Random Write (Max, IOPS), 4KB QD32 T8 <sup>1</sup>	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) <sup>2</sup>	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, Nonoperating (°C)	-40 to 85	-40 to 85		
Shock, Nonoperating: 0.5ms (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)	30.15mm/1.187in	30.15mm/1.187in		
Width (mm/in, max)	22.15mm/0.872in	22.15mm/0.872in		
Height (mm/in, max)	2.23mm/0.087in	2.23mm/0.087in		
Weight (g/lb)	3g/0.006lb	3g/0.006lb		

<sup>1</sup> 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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<sup>2</sup> Rescue Data Recovery Services not available in all countries.