



## DATA SHEET

Explosive Speed. Absolute Domination.

# FireCuda 530 SSD



Blistering performance and unrivaled endurance—Seagate® FireCuda® 530 redefines *speed*—up to 7,300MB/s catalyzes PCIe® Gen4 power. With transfer rates 2× faster than PCIe Gen3, FireCuda 530 is built for sustained abuse and dependable performance. The speed of PCIe Gen4 is yours—seize the power.



## Best-Fit Applications

- High-performance gaming desktops
- Creative professional systems



## Key Advantages

**Speed Reigns.** FireCuda 530 dominates the SSD lineup—delivering pure performance, absolute power, the most advanced components, and unrivaled endurance.

**Highest Performance.** At up to 7300MB/s you can harness the full power of PCIe Gen4 speeds to dominate next-generation games and apps.

**Plug and Play Expansion for PS5** Compatible with PS5 consoles and meets PS5 performance and dimension specs for an ultra fast expansion solution.<sup>1</sup>

**Fastest. FireCuda. Ever.** Built for sustained, pro-level gaming and accelerated content creation with transfer speeds up to 2× faster than PCIe Gen3 NVMe SSDs and up to 12× faster than SATA SSDs.

**Latest Tech.** Built with a Seagate-validated E18 controller and the latest 3D TLC SSD NAND to provide the most advanced speed and durability.

**Endurance Unleashed.** Up to 5100TB TBW means you can write and delete 70% of the drive capacity, every day, for five years.

**Considerable Capacity.** Up to 4TB capacities keeps your gaming library at your fingertips and your creative content rendering.

**Game and Create.** Blistering transfer speeds of up to 7300MB/s, endurance, and capacity makes content creation apps run faster and smoother.

**Rescue Services.** Three years of Rescue Data Recovery Services<sup>2</sup>, offering an industry-leading 95% success rate against unexpected data loss.

<sup>1</sup> Using an M.2 SSD with your PS5 console requires effective heat dissipation with a cooling structure, such as an heatsink and a heat transfer sheet.

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



Specifications	4TB	2TB	1TB	500GB
Standard Model	ZP4000GM30013	ZP2000GM30013	ZP1000GM30013	ZP500GM30013
Interface	PCIe® Gen4 x4 NVMe 1.4	PCIe Gen4 x4 NVMe 1.4	PCIe Gen4 x4 NVMe 1.4	PCIe Gen4 x4 NVMe 1.4
NAND Flash Memory	3D TLC	3D TLC	3D TLC	3D TLC
Form Factor	M.2 2280-D2	M.2 2280-D2	M.2 2280-S2	M.2 2280-S2
Performance				
Sequential Read (Max, MB/s), 128KB <sup>2</sup>	7250	7300	7300	7000
Sequential Write (Max, MB/s), 128KB <sup>2</sup>	6900	6900	6000	3000
Random Read (Max, IOPS), 4KB QD32 T8 <sup>2</sup>	1,000,000	1,000,000	800,000	400,000
Random Write (Max, IOPS), 4KB QD32 T8 <sup>2</sup>	1,000,000	1,000,000	1,000,000	700,000
Endurance/Reliability				
Total Bytes Written (TB)	5100	2550	1275	640
Mean Time Between Failures (MTBF, hours)	1,800,000	1,800,000	1,800,000	1,800,000
Rescue Data Recovery Services (years) <sup>3</sup>	3	3	3	3
Warranty, Limited (years)	5	5	5	5
Power Management				
Active Power, Average (W)	8.6	7.8	6.3	6.0
Idle Power PS3, Average (mW)	30	25	20	15
Low Power L1.2 mode (mW)	<5	<5	<5	<5
Environmental				
Temperature, Operating Internal (°C)	0°C – 70°C	0°C – 70°C	0°C – 70°C	0°C – 70°C
Temperature, Nonoperating (°C)	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C
Shock, Nonoperating: 0.5ms (Gs)	1500	1500	1500	1500
Special Features				
TRIM	Yes	Yes	Yes	Yes
S.M.A.R.T.	Yes	Yes	Yes	Yes
Halogen Free	Yes	Yes	Yes	Yes
RoHS Compliance	Yes	Yes	Yes	Yes
Physical				
Length (mm/in, max)	3.156in	3.156in	3.156in	3.156in
Width (mm/in, max)	22.15mm/0.872in	22.15mm/0.872in	22.15mm/0.866in	22.15mm/0.872in
Height (mm/in, max)	3.58mm/0.141in	3.58mm/0.141in	2.23mm/0.088in	2.23mm/0.088in
Weight (g/lb)	10.6g/0.023lb	10.0g/0.022lb	8.1g/0.017lb	7.7g/0.016lb

<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.7.0.0 x64 on Windows 10 host with PCIe Gen4 motherboard.

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



Specifications			
Retail Packaging	Box Dimensions	Master Carton Dimensions	Pallet Dimensions
Length (in/mm)	5.285in/134.25mm	5.079in/129mm	47.992in/1219mm
Width (in/mm)	4.291in/109mm	10.945in/278mm	20in/508mm
Depth (in/mm)	0.945in/24mm	6.654in/169mm	27.795in/706mm
Weight (lb/kg)	0.137lb/0.062kg	2.028lb/0.92kg	104.808lb/47.54kg
Quantities			
Boxes per Master Carton	10		
Master Cartons per Pallet	48		
Pallet Layers	4		

System Requirements	What's Included
---------------------	-----------------

- M.2 (M key) slot, PCIe® G4 x4 interface (backwards compatible with PCIe G3 interface)
- Windows® 10
- Linux
- Seagate® FireCuda® 530 SSD

Region	Model Number	Capacity	Limited Warranty (years)	UPC Code	EAN Code	Multi-Pack UPC
WW	ZP500GM3A013	500GB	5	763649161746	8719706420419	10763649161743
WW	ZP1000GM3A013	1TB	5	763649161753	8719706420426	10763649161750
WW	ZP2000GM3A013	2TB	5	763649161760	8719706420433	10763649161767
WW	ZP4000GM3A013	4TB	5	763649161777	8719706420440	10763649161774

seagate.com



© 2022 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 NVMe word mark and/or NVMeExpress design mark are trademarks of NVMeExpress, Inc. The PCIe word mark and/or PCIeExpress 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 drive capacity. Seagate reserves the right to change, without notice, product offerings or specifications. DS2059.3-2112US December 2021