



DATA SHEET

Explosive Speed. Absolute Domination.

# FireCuda 530 Heatsink SSD

Blistering performance and unrivalled endurance — Seagate<sup>®</sup>
FireCuda<sup>®</sup> 530 redefines speed — up to 7,300 MB/s catalyses
PCle<sup>®</sup> Gen4 power. With transfer rates 2× faster than PCle Gen3,
FireCuda 530 is built for sustained abuse and dependable
performance. The speed of PCle 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 unrivalled endurance.

**Absolute Performance.** At up to 7,300 MB/s you can harness the full power of PCIe Gen4 speeds to dominate next-generation games and applications.

**Cool Speed Ahead** Heatsink technology keeps things cooler to maintain performance longer.

**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 NAND, FireCuda 530 provides the most advanced speed and durability so you can push the limits of your machine.

**Endurance Unleashed.** Designed to perform under heavy use and tough enough to go the distance — up to 5,100 TB TBW means you can write and delete 70% of the drive capacity, every day, for five years.

**Considerable Capacity.** Graphics-intensive games and big files are no problem with up to 4 TB capacities to keep your gaming library at your fingertips and your creative content rendering.

**Game and Create.** Blistering transfer speeds of up to 7,300 MB/s, endurance, and capacity makes content creation applications run faster and smoother.

**Rescue Services.** Rest easy with three years of Rescue Data Recovery Services<sup>1</sup>, offering an industry-leading 95% success rate against unexpected data loss.



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





Specifications	4TB	2TB	1TB	500GB	
Standard Model Numbers	ZP4000GM30023	ZP2000GM30023	ZP1000GM30023	ZP500GM30023	
Interface	PCIe Gen4 ×4 NVMe 1.4	PCIe Gen4 ×4 NVMe 1.4	PCIe Gen4 ×4 NVMe 1.4	PCle Gen4 ×4 NVMe 1.4	
NAND Flash Memory	3D TLC	3D TLC	3D TLC	3D TLC	
Form Factor	M.2 2280 with heatsink <sup>1</sup>				
Performance					
Sequential Read (Max, MB/s), 128KB <sup>2</sup>	7,300	7,300	7,300	7,000	
Sequential Write (Max, MB/s), 128KB <sup>2</sup>	6,900	6,900	6,000	3,000	
Random Read (Max, IOPS), 4 KB QD32 T8 <sup>2</sup>	1,000,000	1,000,000	800,000	400,000	
Random Write (Max, IOPS), 4 KB 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)	8.4	8	6.5	5.8	
Idle Power PS3, Average (mW)	25	24	16	14	
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, Non-operating (°C)	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C	
Shock, Non-operating: 0.5 ms (Gs)	1,500	1,500	1,500	1,500	
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)	80.15 mm/3.156 in	80.15 mm/3.156 in	80.15 mm/3.156 in	80.15 mm/3.156 in	
Width (mm/in, max)	24.2 mm/0.953 in	24.2 mm/0.953 in	24.2 mm/0.953 in	24.2 mm/0.953 in	
Height (mm/in, max)	11.04 mm/0.435 in	10.39 mm/0.41 in	9.84 mm/0.388 in	9.84 mm/0.388 in	
Weight (lb/g)	47 g/0.104 lb	47 g/0.104 lb	47 g/0.104 lb	47 g/0.104 lb	

<sup>1</sup> Please verify that your system provides enough space for installation. The FireCuda 530 with heatsink exceeds dimensions of a standard M.2 2280 form factor. Heatsink is pre-installed and should not be removed as it can damage the SSD.



<sup>2</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 ×64 on Windows 10 host with PCIe Gen4 motherboard.

<sup>3</sup> Rescue Data Recovery Services not available in all countries.





Specifications								
Retail Packaging	Box Dimensions	Master Carton Dimensions	Pallet Dimensions					
Length (in/mm)	5.285 in/134.25 mm	5.079 in/129 mm	47.992 in/1,219 mm					
Width (in/mm)	4.291 in/109 mm	10.945 in/278 mm	20 in/508 mm					
Depth (in/mm)	0.945 in/24 mm	6.654 in/169 mm	27.795 in/706 mm					
Weight (lb/kg)	0.137 lb/0.062 kg	2.028 lb/0.92 kg	104.808 lb/47.54 kg					
Quantities								
Boxes per Master Carton	10	10						
Master Cartons per Pallet	48	48						
Pallet Layers	4							

#### System Requirements

What's Included

- M.2 (Mkey) slot, PCle<sup>®</sup> G4 ×4 interface (backwards compatible with PCle G3 interface)
- Seagate<sup>®</sup> FireCuda<sup>®</sup> 530 SSD with Heatsink

- Windows<sup>®</sup> 10
- Linux

Region	Model Number	Capacity	Limited Warranty (years)	UPC Code	EAN Code	Multi-Pack UPC
ww	ZP500GM3A023	500GB	5	763649167540	8719706426022	10763649167547
ww	ZP1000GM3A023	1TB	5	763649167557	8719706426039	10763649167554
ww	ZP2000GM3A023	2TB	5	763649167564	8719706426046	10763649167561
ww	ZP4000GM3A023	4TB	5	763649167571	8719706426053	10763649167578

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