



## DATA SHEET Explosive Speed. Absolute Domination. FireCuda 530 Heatsink SSD



Blistering performance and unrivalled endurance — Seagate®

FireCuda<sup>®</sup> 530 redefines *speed* — up to 7,300 MB/s catalyses PCIe<sup>®</sup> 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 unrivalled endurance.

**Absolute Performance.** At up to 7,300 MB/s you can harness the full power of PCIe Gen4 speeds while DirectStorage support brings improved load times and performance to the next-generation games and applications.

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

**Storage Expansion for PS5**<sup>™</sup> The FireCuda 530 heatsink is compatible with PS5 consoles and meets PS5 specs on performance and dimensions for an easy drop-in expansion solution with no additional parts needed<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, 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.

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

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

2 Rescue Data Recovery Services not available in all countries.



Specifications	FireCuda 530 SSD with Heatsink						
Capacity	4TB	2TB	1TB	500GB			
Standard Model	ZP4000GM30023	ZP2000GM30023	ZP1000GM30023	ZP500GM30023			
nterface	PCIe 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>	7250MB/s	7300MB/s	7300MB/s	7000MB/s			
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>	1000000IOPS	1000000IOPS	800000IOPS	400000IOPS			
Random Write (Max, IOPS), 4 KB QD32	1,000,000	1,000,000	1,000,000	700,000			
Endurance/Reliability							
Total Bytes Written (TB)	5,100	2,550	1,275	640			
Mean Time Between Failures (MTBF, nours)	1800000 hr	1800000 hr	1800000 hr	1800000 hr			
Rescue Data Recovery Services (years) 3	3	3	3	3			
Warranty, Limited (years)	5	5	5	5			
Power Management							
Active Power, Average (W)	8.6 W	7.8 W	6.3 W	6.0 W			
dle Power PS3, Average (mW)	30 W	25 W	20 W	15 W			
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)	1500 Gs	1500 Gs	1500 Gs	1500 Gs			
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/0.410 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			

1 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

2 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. 3 Rescue Data Recovery Services not available in all countries.

A FIRECUDA



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/1219 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		
Master Cartons per Pallet	48		
Pallet Layers	4		

#### System Requirements

What's Included

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

• 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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