



DATA SHEET

Explosive Speed. Absolute Domination. FireCuda 530 Heatsink 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.

Absolute Performance. At up to 7,300MB/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.

Storage Expansion for PS5™ 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.

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 5100TB 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 Services¹, offering an industry-leading 95% success rate against unexpected data loss.

¹ Rescue Data Recovery Services not available in all countries.



Specifications	4TB	2TB	1TB	500GB
Standard Model	ZP4000GM30023	ZP2000GM30023	ZP1000GM30023	ZP500GM30023
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 with heatsink ¹	M.2 2280 with heatsink ¹	M.2 2280 with heatsink ¹	M.2 2280 with heatsink ¹
Performance				
Sequential Read (Max, MB/s), 128KB ²	7300	7300	7300	7000
Sequential Write (Max, MB/s), 128KB ²	6900	6900	6000	3000
Random Read (Max, IOPS), 4KB QD32 T8 ²	1,000,000	1,000,000	800,000	400,000
Random Write (Max, IOPS), 4KB QD32 T8 ²	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) ³	3	3	3	3
Warranty, Limited (years)	5	5	5	5
Power Management				
Active Power, Average (W)	8.4	8.0	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, 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)	80.15mm/3.156in	80.15mm/3.156in	80.15mm/3.156in	80.15mm/3.156in
Width (mm/in, max)	24.2mm/0.953in	24.2mm/0.953in	24.2mm/0.953in	24.2mm/0.953in
Height (mm/in, max)	11.04mm/0.435in	10.39mm/0.410in	9.84mm/0.388in	9.84mm/0.388in
Weight (g/lb)	47g/0.104lb	47g/0.104lb	47g/0.104lb	47g/0.104lb

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 damage the SSD.

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 x64 on Windows 10 host with PCIe Gen4 motherboard.

³ 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
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- M.2 (M key) slot, PCIe® G4 x4 interface (backwards compatible with PCIe G3 interface)
- Windows® 10
- Linux
- Seagate® FireCuda® 530 SSD with Heatsink

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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