



FIRECUDA
GAMING



DATA SHEET

Explosive Speed. Absolute Domination.

FireCuda 530 SSD



Blistering performance and unrivalled endurance — Seagate® FireCuda® 530 redefines *speed* — up to 7,300 MB/s catalyses 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 unrivalled endurance.

Highest 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.

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

¹ Rescue Data Recovery Services not available in all countries.



Specifications	4 TB	2 TB	1 TB	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 ²	7,300	7,300	7,300	7,000
Sequential Write (Max, MB/s), 128KB ²	6,900	6,900	6,000	3,000
Random Read (Max, IOPS), 4 KB QD32 T8 ²	1,000,000	1,000,000	800,000	400,000
Random Write (Max, IOPS), 4 KB 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	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)	22.15 mm/0.872 in	22.15 mm/0.872 in	22.15 mm/0.866 in	22.15 mm/0.872 in
Height (mm/in, max)	3.58 mm/0.141 in	3.58 mm/0.141 in	2.23 mm/0.088 in	2.23 mm/0.088 in
Weight (lb/g)	10.6 g/0.023 lb	10 g/0.022 lb	8.1 g/0.017 lb	7.7 g/0.016 lb

¹ 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.

² 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		
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	1 TB	5	763649161753	8719706420426	10763649161750
WW	ZP2000GM3A013	2 TB	5	763649161760	8719706420433	10763649161767
WW	ZP4000GM3A013	4 TB	5	763649161777	8719706420440	10763649161774

seagate.com



© 2021 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 PCIe word mark and/or PCIExpress 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. DS2059.1-2106GB June 2021