



**FIRECUDA**  
GAMING



DATA SHEET

Explosive Speed. Absolute Domination.

## FireCuda 530 Heatsink 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.

**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.

**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 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<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                                      | 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 <sup>1</sup> | M.2 2280 with heatsink <sup>1</sup> | M.2 2280 with heatsink <sup>1</sup> | M.2 2280 with heatsink <sup>1</sup> |
| <b>Performance</b>                                  |                                     |                                     |                                     |                                     |
| Sequential Read (Max, MB/s), 128 KB <sup>2</sup>    | 7,250                               | 7,300                               | 7,300                               | 7,000                               |
| Sequential Write (Max, MB/s), 128 KB <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                             |
| <b>Endurance/Reliability</b>                        |                                     |                                     |                                     |                                     |
| 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                                   |
| <b>Power Management</b>                             |                                     |                                     |                                     |                                     |
| Active Power, Average (W)                           | 8.6                                 | 7.8                                 | 6.3                                 | 6                                   |
| Idle Power PS3, Average (mW)                        | 30                                  | 25                                  | 20                                  | 15                                  |
| Low Power L1.2 mode (mW)                            | <5                                  | <5                                  | <5                                  | <5                                  |
| <b>Environmental</b>                                |                                     |                                     |                                     |                                     |
| 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                               |
| <b>Special Features</b>                             |                                     |                                     |                                     |                                     |
| 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                                 |
| <b>Physical</b>                                     |                                     |                                     |                                     |                                     |
| Length (mm/in, max)                                 | 3.156 in                            | 3.156 in                            | 3.156 in                            | 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 x64 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                 |                          |                     |
| 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 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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