



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 apps.

**Plug and Play Expansion for PS5** Compatible with PS5 consoles and meets PS5 performance and dimension specs for an ultra fast expansion solution.<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 to provide the most advanced speed and durability.

**Endurance Unleashed.** Up to 5,100 TB TBW means you can write and delete 70% of the drive capacity, every day, for five years.

**Considerable Capacity.** Up to 4 TB capacities keeps 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 apps run faster and smoother.

**Rescue Services.** Three years of Rescue Data Recovery Services<sup>2</sup>, offering an industry-leading 95% success rate against unexpected data loss.

<sup>1</sup> 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.

<sup>2</sup> Rescue Data Recovery Services not available in all countries.



| Specifications                                      | 4TB                                | 2TB                   | 1TB                   | 500GB                 |
|---|------------------------------------|-----------------------|-----------------------|-----------------------|
| Standard Model                                      | ZP4000GM30013                      | ZP2000GM30013         | ZP1000GM30013         | ZP500GM30013          |
| Interface   | PCIe <sup>®</sup> 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           |
| <b>Performance</b>                                  |                                    |                       |                       |                       |
| Sequential Read (Max, MB/s), 128KB <sup>2</sup>     | 7,250                              | 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               |
| <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)                                  | 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        |

<sup>1</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>2</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

| Region | Model Number  | Capacity | Limited Warranty (years) | UPC Code     | EAN Code      | Multi-Pack UPC |
|--------|---------------|----------|--------------------------|--------------|---------------|----------------|
| WW     | ZP500GM3A013  | 500GB    | 5                        | 763649161746 | 8719706420419 | 10763649161743 |
| WW     | ZP1000GM3A013 | 1TB      | 5                        | 763649161753 | 8719706420426 | 10763649161750 |
| WW     | ZP2000GM3A013 | 2TB      | 5                        | 763649161760 | 8719706420433 | 10763649161767 |
| WW     | ZP4000GM3A013 | 4TB      | 5                        | 763649161777 | 8719706420440 | 10763649161774 |

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