



DATA SHEET

Explosive Speed. Absolute Domination.

FireCuda 530 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.

Highest Performance. At up to 7300MB/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.¹

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 5100TB TBW means you can write and delete 70% of the drive capacity, every day, for five years.

Considerable Capacity. Up to 4TB capacities keeps your gaming library at your fingertips and your creative content rendering.

Game and Create. Blistering transfer speeds of up to 7300MB/s, endurance, and capacity makes content creation apps run faster and smoother.

Rescue Services. Three years of Rescue Data Recovery Services², 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 an heatsink and a heat transfer sheet.

² Rescue Data Recovery Services not available in all countries.



| Specifications | 4TB | 2TB | 1TB | 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 | 7250 | 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) | 8.6 | 7.8 | 6.3 | 6.0 |
| Idle Power PS3, Average (mW) | 30 | 25 | 20 | 15 |
| 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) | 3.156in | 3.156in | 3.156in | 3.156in |
| Width (mm/in, max) | 22.15mm/0.872in | 22.15mm/0.872in | 22.15mm/0.866in | 22.15mm/0.872in |
| Height (mm/in, max) | 3.58mm/0.141in | 3.58mm/0.141in | 2.23mm/0.088in | 2.23mm/0.088in |
| Weight (g/lb) | 10.6g/0.023lb | 10.0g/0.022lb | 8.1g/0.017lb | 7.7g/0.016lb |

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) | 5.285in/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 |
|---------------------|-----------------|
|---------------------|-----------------|

- 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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