



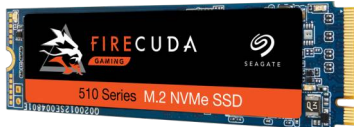
DATA SHEET

Accelerate. Dominate. Endure.

FireCuda 510 SSD



Built specifically for professional-level gamers, the Seagate® FireCuda® 510 SSD brings the intense speeds, lasting endurance, and large capacity needed to accelerate PC storage performance.



Best-Fit Applications

- Gaming PC desktops
- Gaming PC laptops
- High-performance PCs and workstations
- Creative professional systems

Key Advantages

NVMe PCIe Gen3 x4 interface unleashes the speed of NAND and delivers up to 6× faster performance than SATA SSDs

Blazing-fast sequential read/writes bring faster load times, faster program installations, and faster processing

Ultra-high random read/write IOPS translates to faster program response times and more responsive multiple program multitasking

Enhanced dynamic SLC cache with up to 28GB reserved provides longer bursts of data

1TB and 2TB capacities for the storage of huge files and games without the worry of maxing out your drive or partitioning

M.2 2280 form factor for massive speed and capacity in a compact package for installation in tight spaces, leaving room for other components

Top-tier endurance gives pro-level gamers peace of mind with a 5-year limited warranty and MTBF of 1.8M hours

SeaTools™ SSD enhanced gaming tool with drive management and health monitoring so gamers can tune the drive to their performance needs



Specifications	2TB	1TB
Standard Model (TCG Pyrite)	ZP2000GM30001	ZP1000GM30001
Interface	PCIe G3 x4, NVMe 1.3	PCIe G3 x4, NVMe 1.3
NAND Flash Memory	3D TLC	3D TLC
Form Factor	M.2 2280-D2	M.2 2280-D2
Performance		
Sequential Read (Max, MB/s), 128KB ¹	3450	3450
Sequential Write (Max, MB/s), 128KB ¹	3200	3200
Random Read (Max, IOPS), 4KB QD32 T8 ¹	485,000	620,000
Random Write (Max, IOPS), 4KB QD32 T8 ¹	600,000	600,000
Endurance/Reliability		
Total Bytes Written (TB)	2600	1300
Mean Time Between Failures (MTBF, hours)	1,800,000	1,800,000
Warranty, Limited (years)	5	5
Power Management		
Active Power, Average (W)	6.0	5.3
Idle Power PS3, Average (mW)	26	20
Low Power L1.2 mode (mW)	2	2
Environmental		
Temperature, Operating Internal (°C)	0 to 70	0 to 70
Temperature, Nonoperating (°C)	-40 to 85	-40 to 85
Shock, Nonoperating: 0.5ms (Gs)	1500	1500
Special Features		
TRIM	Yes	Yes
S.M.A.R.T.	Yes	Yes
Halogen Free	Yes	Yes
RoHS Compliance	Yes	Yes
Physical		
Length, Max (mm)	80.15	80.15
Width, Max (mm)	22.15	22.15
Height, Max (mm)	3.58	3.58
Weight (g)	8.3	8.1

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.5.2.1 x64 on Windows 10 host.

Ordering Information			
Specifications			
Retail Packaging	Box Dimensions	Master Carton Dimensions	Pallet Dimensions
Depth/Length (in/mm)	5.285in/134.25mm	5.078in/129mm	47.244in/1200mm
Width (in/mm)	4.291in/109mm	10.944in/278mm	39.37in/1000mm
Height (in/mm)	0.944in/24mm	6.653in/169mm	51.968in/1320mm
Weight (lb/kg)	0.136lb/0.062kg	2.028lb/0.92kg	428.799lb/194.5kg
Quantities			
Boxes per Master Carton	10		
Master Cartons per Pallet	196		
Pallet Layers	7		

System Requirements	What's Included
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- M.2 (M key) slot, PCIe G3 x4 interface
- Windows® 10, Windows 8.1, Windows 7
- Linux
- Seagate® FireCuda® 510 SSD

Region	Model Number	Capacity	Limited Warranty (years)	UPC Code	EAN Code	Multi-Pack UPC
WW	ZP1000GM30011	1000GB	5	763649133989	8719706016599	10763649133986
WW	ZP2000GM30021	2000GB	5	763649133996	8719706016605	10763649133993

seagate.com



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