

**9** S E A G A T E

# Accelerate. Dominate. Endure.



Built specifically for professional-level gamers, the Seagate<sup>®</sup> FireCuda<sup>®</sup> 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 ×4** 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 28 GB reserved provides longer bursts of data

**1 TB and 2 TB 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 1.8 M hours

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





Specifications	2 TB	1 TB	500 GB	
Standard Model (TCG Pyrite)	ZP2000GM30001	01 ZP1000GM30001 ZP5000		
Interface	PCIe G3 ×4, NVMe 1.3	PCIe G3 ×4, NVMe 1.3	PCIe G3 ×4, NVMe 1.3	
NAND Flash Memory	3D TLC	3D TLC	3D TLC	
Form Factor	M.2 2280-D2	30-D2 M.2 2280-D2 M.2 228		
Performance				
Sequential Read (Max, MB/s), 128KB <sup>1</sup>	3,450	3,450	3,450	
Sequential Write (Max, MB/s), 128KB <sup>1</sup>	3,200	3,200	2,500	
Random Read (Max, IOPS), 4KB QD32 T8 <sup>1</sup>	485,000	620,000	420,000	
Random Write (Max, IOPS), 4KB QD32 T8 <sup>1</sup>	600,000	600,000	600,000	
Endurance/Reliability				
Total Bytes Written (TB)	2,600	1,300	650	
Mean Time Between Failures (MTBF, hours)	1,800,000	1,800,000	1,800,000	
Warranty, Limited (years)	5	5	5	
Power Management				
Active Power, Average (W)	6.0	5.5	4.7	
Idle Power PS3, Average (mW)	26.4	20	16	
Low Power L1.2 mode (mW)	2	2	2	
Environmental				
Temperature, Operating Internal (°C)	0 to 70	0 to 70	0 to 70	
Temperature, Non-operating (°C)	-40 to 85	-40 to 85	-40 to 85	
Shock, Non-operating: 0.5 ms (Gs)	1,500	1,500	1,500	
Special Features				
TRIM	Yes	Yes	Yes	
S.M.A.R.T.	Yes	Yes	Yes	
Halogen-free	Yes	Yes	Yes	
RoHS compliance	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	
Width (mm/in, max)	22.15 mm/0.872 in	22.15 mm/0.872 in	22.15 mm/0.872 in	
Height (mm/in, max)	3.58 mm/0.140 in	3.58 mm/0.140 in	3.58 mm/0.140 in	
Weight (lb/g)	8.7 g/0.019 lb	8.5 g/0.018 lb	8.0 g/0.017 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.5.2.1 ×64 on Windows 10 host.





Ordering Information								
Specifications								
Retail Packaging		Box Dimensions	Master Carton Dimensions	Pallet Dimensions				
Depth/Length (in/mm)		5.285 in/134.25 mm	5.078 in/129 mm	47.244 in/1,200 mm				
Width (in/mm)		4.291 in/109 mm	10.944 in/278 mm	39.37 in/1,000 mm				
Height (in/mm)		0.944 in/24 mm	6.653 in/169 mm	51.968 in/1,320 mm				
Weight (lb/kg),		0.136 lb/0.062 kg	2.028 lb/0.92 kg	428.799 lb/194.5 kg				
Quantities								
Boxes per Master Carton	10							
Master Cartons per Pallet	196							
Pallet Layers	7							

#### System Requirements

# What's Included

• Seagate® FireCuda® 510 SSD

- M.2 (M key) slot, PCIe G3 ×4 interface
- Windows<sup>®</sup> 10, Windows 8.1, Windows 7
- Linux

Region	Model Number	Capacity	Limited Warranty (years)	UPC Code	EAN Code	Multi-Pack UPC
ww	ZP500GM3A001	500GB	5	763649138458	8719706020169	10763649138455
ww	ZP1000GM30011	1000GB	5	763649133989	8719706016599	10763649133986
ww	ZP2000GM30021	2000GB	5	763649133996	8719706016605	10763649133993

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