

**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 PCle 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 provides longer bursts of data

Multiple capacities up to 2 TB 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

**Three years of Rescue Data Recovery Services**<sup>1</sup>, offering an industry-leading 95% success rate against unexpected data loss.

1 Rescue Data Recovery Services not available in all countries.





Specifications	cations 2 TB		500 GB	250 GB	
Standard Model (TCG Pyrite)	ZP2000GM30001	ZP1000GM30031	ZP500GM30021	ZP250GM30001	
Interface	PCIe Gen3 ×4, NVMe 1.3	PCIe Gen3 ×4, NVMe 1.3	PCIe Gen3 ×4, NVMe 1.3	PCIe Gen3 ×4, NVMe 1.3	
NAND Flash Memory	3D TLC	3D TLC	3D TLC	3D TLC	
Form Factor	M.2 2280-D2	M.2 2280-S2	M.2 2280-S2	M.2 2280-S2	
Performance					
Sequential Read (Max, MB/s), 128 KB <sup>1</sup>	3,450	3,450 3,450		3,200	
Sequential Write (Max, MB/s), 128 KB <sup>1</sup>	3,200	3,100	2,500	1,300	
Random Read (Max, IOPS), 4 KB QD32 $T8^{1}$	620,000	620,000	420,000	210,000	
Random Write (Max, IOPS), 4 KB QD32 T8 <sup>1</sup>	600,000	600,000	600,000	320,000	
Endurance/Reliability					
Total Bytes Written (TB)	2,600	1,300	650	300	
Mean Time Between Failures (MTBF, hours)	1,800,000	1,800,000	1,800,000	1,800,000	
Rescue Data Recovery Services (years) <sup>2</sup>	3	3	3	3	
Warranty, Limited (years)	5	5	5	5	
Power Management					
Active Power, Average (W)	6.0	5.3	4.6	3.0	
Idle Power PS3, Average (mW)	26.4	20	16	16	
Low Power L1.2 mode (mW)	2	2	2	2	
Environmental					
Temperature, Operating Internal (°C)	0 to 70	0 to 70	0 to 70	0 to 70	
Temperature, Non-operating (°C)	-40 to 85	-40 to 85	-40 to 85	-40 to 85	
Shock, Non-operating: 0.5 ms (Gs)	1,500	1,500	1,500	1,500	
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)	80.15 mm/3.156 in	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 22.15 mm/0.872 ir		
Height (mm/in, max)	3.58 mm/0.140 in	2.23 mm/0.087 in	2.23 mm/0.087 in	2.23 mm/0.087 in	
Weight (lb/g)	8.7 g/0.019 lb	8.7 g/0.019 lb	8.7 g/0.019 lb	8.7 g/0.019 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.6.0.2 × 64 on Windows 10 host.

2 Rescue Data Recovery Services not available in all countries.





#### Ordering Information Specifications Retail Packaging Depth/Length (in/mm) 5.285 in/134.25 mm 5.078 in/129 mm 47.992 in/1,219 mm Width (in/mm) 4.291 in/109 mm 10.944 in/278 mm 20 in/508 mm Height (in/mm) 0.944 in/24 mm 6.653 in/169 mm 27.795 in/706 mm Weight (lb/kg), 104.80 lb/47.54 kg 0.136 lb/0.062 kg 2.028 lb/0.92 kg Boxes per Master Carton 10 48 Master Cartons per Pallet 4 Pallet Layers

### 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
- Linux

Region	Model Number	Capacity	Limited Warranty (years)	UPC Code	EAN Code	Multi-Pack UPC
ww	ZP250GM3A001	250GB	5	763649153376	8719706031813	10763649153373
ww	ZP500GM3A021	500GB	5	763649153383	8719706031820	10763649153380
ww	ZP1000GM3A011	1TB	5	763649153390	8719706031837	10763649153397
ww	ZP2000GM30021	2TB	5	763649133996	8719706016605	10763649133993

## seagate.com

© 2021 Seagate Technology LLC. All rights reserved. Seagate, Seagate Technology, and the Spiral logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. FireCuda, the FireCuda logo, and SeaTools are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. When referring to drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes. Your computer's operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions, and thus will not be available for data storage. Actual data rates may vary depending on operating environment and other factors, such as chosen interface and disk capacity. Seagate reserves the right to change, without notice, product offerings or specifications. DS1999.5-2101GB January 2021

