



DATA SHEET

Accelerate. Dominate. Endure. FireCuda 120 SSD



Designed for speed and endurance, the highly-adaptable FireCuda[®] 120 SSD is ready for rigorous PC gaming. With 5600TB TBW durability and maxed out SATA III speed—this SSD plugs in easily, roars to life, and lasts a lifetime. Whether you're improving your PC or giving your battlestation extra backup, FireCuda 120 SSD is ready to play.



Best-Fit Applications

- New desktop gaming PC builds
- Upgrading a desktop gaming PC
- Upgrading a laptop gaming PC

Key Advantages

Get maximum, top-level SSD speed with SATA III 6Gb/s.

Take advantage of high sequential read/write speeds (up to 560/540 MB/s) for more responsive downloads, installs, and multitasking.

Unleash SATA SSD speeds that are up to 30× faster than hard drives.

Enjoy the long-term high endurance of .07 DWPD.

Game confidently with the durability of up to 5600TB total bytes written (TBW).

With a robust 1.8M hours mean time between failures (MTBF), you've got roughly 82 years of gaming ahead of you.

Up to 4TB of capacity means you can accumulate games without fear of maxing out space.

Monitor drive health, performance, and firmware updates with free Seagate SeaTools™ SSD software.



Specifications	4TB	2TB	1TB	500 GB
Model Number	ZA4000GM10001	ZA2000GM10001	ZA1000GM10001	ZA500GM10001
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
NAND Flash Memory	3D TLC	3D TLC	3D TLC	3D TLC
Form Factor	2.5 in x 7mm	2.5 in x 7mm	2.5 in x 7mm	2.5 in x 7mm
Performance				
Sequential Read (Max, MB/s), 128KB ¹	560	560	560	560
Sequential Write (Max, MB/s), 128KB ¹	540	540	540	540
Random Read (Max, IOPS), 4KB QD32 ¹	100,000	100,000	100,000	100,000
Random Write (Max, IOPS), 4KB QD32 ¹	90,000	90,000	90,000	90,000
Endurance/Reliability				
Total Bytes Written (TB)	5600	2800	1400	700
Mean Time Between Failures (MTBF, hours)	1,800,000	1,800,000	1,800,000	1,800,000
Warranty, Limited (years)	5	5	5	5
Power Management				
Active Power, Average (W)	5.5	5.5	5.5	5.5
Idle Power, Average (mW)	<130	<130	<130	<130
DevSleep (mW)	<5	<5	<5	<5
Environmental				
Temperature, Operating Internal (°C)	0-70	0-70	0-70	0-70
Temperature, Nonoperating (°C)	-40 - 85	-40 - 85	-40 - 85	-40 - 85
Shock, Nonoperating: 0.5ms (Gs)	1500	1500	1500	1500
Physical				
Height (mm/in, max)	7.10mm/0.249in	7.10mm/0.249in	7.10mm/0.249in	7.10mm/0.249in
Width (mm/in, max)	70.10mm/2.759in	70.10mm/2.759in	70.10mm/2.759in	70.10mm/2.759in
Depth (mm/in, max)	100.35mm/3.950in	100.35mm/3.950in	100.35mm/3.950in	100.35mm/3.950in
Weight (g/lb)	50g/0.110lb	50g/0.110lb	50g/0.110lb	50g/0.110lb
Bulk Pack Specifications				
Carton Unit Quantity	10	10	10	10
Cartons Per Pallet/Layer	216 / 9	216 / 9	216 / 9	216 / 9
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

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.6.0.0 x64 on Windows 10 host.



Ordering Information	
Specifications	
Retail Packaging	Box Dimensions
Depth/Length (in/mm)	0.994in/24mm
Width (in/mm)	4.291in/109mm
Height (in/mm)	6.102in/155mm
Weight (lb/kg)	2.205lb/0.1kg
Master Carton Dimensions	
Depth/Length (in/mm)	6.023in/153mm
Width (in/mm)	11.496in/292mm
Height (in/mm)	5.011in/140mm
Weight (lb/kg)	2.646lb/1.2kg
Pallet Dimensions	
Depth/Length (in/mm)	47.244in/1200mm
Width (in/mm)	39.370in/1000mm
Height (in/mm)	51.968in/1320mm
Weight (lb/kg)	615.09lb/279kg
Quantities	
Boxes per Master Carton	10
Master Cartons per Pallet	216
Pallet Layers	9

System Requirements	What's Included
---------------------	-----------------

- SATA 6Gb/s or SATA 3Gb/s port
- Windows® 10, Windows 8.1
- Linux

- Seagate® FireCuda® 120 SSD

Region	Model Number	Capacity	Limited Warranty (years)	UPC Code	EAN Code	Multi-Pack UPC
WW	ZA500GM1A001	500GB	5	763649144886	8719706025577	10763649144883
WW	ZA1000GM1A001	1TB	5	763649144893	8719706025584	10763649144890
WW	ZA2000GM1A001	2TB	5	763649144909	8719706025591	10763649144906
WW	ZA4000GM1A001	4TB	5	763649144916	8719706025607	10763649144913

seagate.com



© 2020 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 drive capacity. Seagate reserves the right to change, without notice, product offerings or specifications. DS2039.1-2004US April 2020