

Waste No
Time



FireCuda 540 SSD

Waste No Time

Performance has a new name — FireCuda 540 SSD. With speeds up to 10,000 MB/s, this PCIe Gen5 takes no-prisoners, toppling Gen4 speeds by 50% and going 17 times faster than SATA SSDs. DirectStorage API brings faster load times to games and applications. Plus, handles upwards of 2000 TB total bytes written, perfect for powering through constant abuse. This SSD isn't for the faint of heart.



Key Features

Full Tilt Speeds

Our PCIe Gen5 interface brings performance of up to 10,000 MB/s and 1.5M IOPS optimised for DirectStorage PC games.

Faster. Faster. Faster.

Transfer speeds up to 50% faster than PCIe Gen4 NVMe SSDs and up to 17x faster than SATA SSDs.

Built to Last

Up to 2,000 TB TBW means you can rewrite up to 1 TB of data every day, for five years (based on 2 TB capacity).

Waste No
Time



FIRECUDA 540 SSD

Ready to Roll

Plug-and-play compatibility with most PCIe Gen5 motherboards and backwards compatible with PCIe Gen4.

Game and Create Like a Pro

DirectStorage support brings faster load times to compatible PC games and applications.

Warranty

Enjoy long-term peace of mind with three years of Rescue Data Recovery Services and a five-year limited warranty.



RETAIL PACKAGING	BOX DIMENSIONS	MASTER CARTON DIMENSIONS	PALLET DIMENSIONS
Length (in/mm)	6.102 in/155 mm	11.496 in/292 mm	48.031 in/1220 mm
Width (in/mm)	4.291 in/109 mm	6.024 in/153 mm	40 in/1016 mm
Depth (in/mm)	0.945 in/24 mm	5.512 in/140 mm	44.764 in/1137 mm
Weight (lb/kg)	0.154 lb/0.07 kg	2.138 lb/0.97 kg	396.832 lb/180 kg

QUANTITIES	
Boxes per Master Carton	10
Master Cartons per Pallet	168
Pallet Layers	7

SYSTEM REQUIREMENTS	WHAT'S INCLUDED
<ul style="list-style-type: none">M.2 (M key) slot, PCIe® G5 x4 interface (backwards compatible with PCIe G4 interface)Windows® 11, Windows 10Linux	<ul style="list-style-type: none">Seagate® FireCuda® 540 SSD

REGION	MODEL NUMBER	CAPACITY	LIMITED WARRANTY (YEARS)	UPC CODE	EAN CODE	MULTI-PACK UPC
WW	ZP1000GM3A004	1TB	5	763649174623	8719706430876	10763649174620
WW	ZP2000GM3A004	2TB	5	763649174630	8719706430883	10763649174637

SPECIFICATIONS	2TB	1TB
Standard Model	ZP2000GM30004	ZP1000GM30004
Interface	PCIe Gen5 x4 NVMe 2.0	PCIe Gen5 x4 NVMe 2.0
NAND Flash Memory	3D TLC	3D TLC
Form Factor	M.2 2280-D2	M.2 2280-D2
PERFORMANCE		
Sequential Read (Max, MB/s), 1MB ¹	10,000	9,500
Sequential Write (Max, MB/s), 1MB ¹	10,000	8,500
Random Read (Max, IOPS), 4 KB QD32 T8 ¹	1,490,000	1,300,000
Random Write (Max, IOPS), 4KB QD32 T8 ¹	1,500,000	1,500,000
ENDURANCE/RELIABILITY		
Total Bytes Written (TB)	2,000	1,000
Mean Time Between Failures (MTBF, hours)	1800000 hr	1800000 hr
Rescue Data Recovery Services (years) ²	3	3
Warranty, Limited (years)	5	5
POWER MANAGEMENT		
Active Power, Average (W)	11	10
Idle Power PS3, Average (mW)	144	144
ENVIRONMENTAL		
Temperature, Operating Internal (°C)	0°C – 70°C	0°C – 70°C
Temperature, Non-operating (°C)	-40°C – 85°C	-40°C – 85°C
Shock, Non-operating: 0.5 ms (Gs)	1500 Gs	1500 Gs
SPECIAL FEATURES		
TRIM	Yes	Yes
S.M.A.R.T.	Yes	Yes
SED TCG Opal 2.01	Yes	Yes
RoHS compliance	Yes	Yes
PHYSICAL		
Length (mm/in, max)	80.15 mm/3.155 in	80.15 mm/3.155 in
Width (mm/in, max)	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
Weight (lb/g)	7.4 g/0.016 lb	7.4 g/0.016 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.8.0.4 x64 on Windows 11 host with PCIe Gen5 motherboard. Must have a heatsink for optimal performance, active heatsink recommended.

² Rescue Data Recovery Services not available in all countries.

SEAGATE.COM

© 2023 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 and the FireCuda logo are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. The PCIe word mark and/or PCIeExpress design mark are registered trademarks and/or service marks of PCI-SIG. 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. DS2120.2-2304