

DATA SHEET

Fast. Dependable. Versatile.

BarraCuda 120 SSD



The 2.5-inch SATA SSD, Seagate® BarraCuda™ 120 SSD, features a next-gen controller combined with the latest 3D TLC NAND technology to provide your PC with increased dependability and speed. It is specifically designed for improved performance, reliability and efficiency. PC upgrades love our legendary BarraCuda internal drives.



Best-Fit Applications

- Desktops and all-in-one PCs
- Laptops
- Home servers
- Gaming PCs

Key Advantages

Unlock maximum SATA 6 Gb/s SSD speeds with 3D TLC NAND that delivers up to 560/540 MB/s sequential read/write and up to 90K IOPS random read/write.

Easily upgrade from hard drives with a plug-and-play 2.5-inch, 7 mm form factor and SATA interface

Trust in Seagate's robust 5-year limited warranty and BarraCuda's established dependability.

Achieve endurance and reliability with up to 1,170 TB Total Bytes Written and 1,800,000 hours Mean Time Between Failures.

Seagate has been the industry leader in compute storage for over 40 years, because we're committed to data storage excellence.

Choose from multiple capacities (up to 2 TB) for all your applications, media, files and more.

Download our free SeaTools™ SSD software to take advantage of drive performance reporting, S.M.A.R.T. attributes, health monitoring, firmware updates, diagnostics, and managing logs.



Specifications	2 TB	1 TB	500 GB	250 GB
Model Number	ZA2000CM10003	ZA1000CM10003	ZA500CM10003	ZA250CM10003
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
NAND Flash Memory	3D TLC	3D TLC	3D TLC	3D TLC
Form Factor	2.5 in × 7 mm	2.5 in × 7 mm	2.5 in × 7 mm	2.5 in × 7 mm
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	90,000	90,000	90,000	90,000
Random Write (Max, IOPS), 4KB QD32 ¹	90,000	90,000	90,000	90,000
Endurance/Reliability				
Total Bytes Written (TB)	1170	600	300	150
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)	2.8	2.7	2.5	2.5
Idle Power, Average (mW)	128	120	115	116
DevSleep (mW)	5	5	5	5
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
Physical				
Height (mm/in, max)	7.10 mm/0.279 in	7.10 mm/0.279 in	7.10 mm/0.279 in	7.10 mm/0.279 in
Width (mm/in, max)	70.10 mm/2.759 in	70.10 mm/2.759 in	70.10 mm/2.759 in	70.10 mm/2.759 in
Depth (mm/in, max)	100.35 mm/3.950 in	100.35 mm/3.950 in	100.35 mm/3.950 in	100.35 mm/3.950 in
Weight (lb/g)	50g/0.110lb	50g/0.110lb	50g/0.110lb	50g/0.110lb
Bulk Pack Specifications				
Carton Unit Quantity	20	20	20	20
Cartons Per Pallet/Layer	96 / 48	96 / 48	96 / 48	96 / 48
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	Master Carton Dimensions	Pallet Dimensions
Depth/Length (in/mm)	0.944 in/24 mm	6.023 in/153 mm	47.244 in/1,200 mm
Width (in/mm)	4.291 in/109 mm	11.496 in/292 mm	39.37 in/1,000 mm
Height (in/mm)	6.102 in/155 mm	5.511 in/140 mm	51.968 in/1,320 mm
Weight (lb/kg),	0.22 lb/0.1 kg	2.645 lb/1.2 kg	615.090 lb/279 kg
Quantities			
Boxes per Master Carton	10		
Master Cartons per Pallet	216		
Pallet Layers	9		

System Requirements	What's Included
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- | | |
|---|---|
| <ul style="list-style-type: none"> • SATA 6 Gb/s or SATA 3 Gb/s port • Windows® 10, Windows 8.1 or Windows 7 • Linux | <ul style="list-style-type: none"> • Seagate® BarraCuda™ 120 SSD |
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Region	Model Number	Capacity	Limited Warranty (years)	UPC Code	EAN Code	Multi-Pack UPC
WW	ZA250CM1A003	250GB	5	763649139288	8719706020855	10763649139285
WW	ZA500CM1A003	500GB	5	763649139295	8719706020862	10763649139292
WW	ZA1000CM1A003	1TB	5	763649139301	8719706020879	10763649139308
WW	ZA2000CM1A003	2TB	5	763649139318	8719706020886	10763649139315

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