



DATA SHEET

Fast. Dependable. Versatile.

BarraCuda SSD



Seagate brings over 20 years of trusted performance and reliability to the Seagate® BarraCuda® SSD.



Best-fit Applications

- Desktop or all-in-one PCs
- Laptops
- Home servers

Key Advantages

Soar to new heights of performance with Seagate BarraCuda SSD providing maximum sequential read and write speeds, reaching 560/540 MB/s.

Unmatched Dependability—the new Seagate® BarraCuda® SSD is a cost-effective way to handle all your PC needs — working, playing, storing your movies and music and more.

Amazing versatility with spacious capacity options up to 2 TB lets you stay in the flow no matter how much heavy lifting and multitasking is on your plate.

SATA 6 Gb/s interface for optimal performance and compatibility with your PC or laptop.



Specifications	2 TB	1 TB	500 GB	250 GB
Product ST Model Number	ZA2000CM10002	ZA1000CM10002	ZA500CM10002	ZA250CM10002
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), 128 KB ^{1,2}	560	560	560	560
Sequential Write (Max, MB/s), 128 KB ^{1,2}	540	540	535	530
Random Read (Max, IOPS), 4 KB QD32 ^{1,2}	90,000	90,000	90,000	90,000
Random Write (Max, IOPS), 4 KB QD32 ^{1,2}	90,000	90,000	90,000	90,000
Endurance/Reliability				
Total Bytes Written (TB)	1067	485	249	120
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)	3.1	2.8	2.6	2.6
Idle Power, Average (mW)	225	221	192	185
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)	7.00	7.00	7.00	7.00
Width (mm)	69.85	69.85	69.85	69.85
Depth (mm)	100.00	100.00	100.00	100.00
Weight (g)	50	50	50	50
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.

² Performance based on CrystalDiskMark v.5.2.1 ×64 on Windows 10 host.



Ordering Information				
Specifications				
Retail Packaging	Product Dimensions	Box Dimensions	Master Carton Dimensions	Pallet Dimensions
Depth/Length (in/mm)	3.937 in/100 mm	0.944 in/24 mm	6.023 in/153 mm	47.244 in/1200 mm
Width (in/mm)	2.75 in/69.85 mm	4.291 in/109 mm	11.496 in/292 mm	39.37 in/1000 mm
Height (in/mm)	0.276 in/7 mm	6.102 in/155 mm	5.511 in/140 mm	51.968 in/1320 mm
Weight (lb/kg)	0.11 lb/0.05 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® SSD |
|---|---|

Retail Pack ST Model Information						
Region	Model Number	Capacity	Limited Warranty (years)	UPC Code	EAN Code	Multi-Pack UPC
WW	ZA250CM1A002	250GB	5	763649137840	8719706019682	10763649137847
WW	ZA500CM1A002	500GB	5	763649137857	8719706019699	10763649137854
WW	ZA1000CM1A002	1TB	5	763649137864	8719706019705	10763649137861
WW	ZA2000CM1A002	2TB	5	763649137871	8719706019712	10763649137878

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