



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 540/520 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
Standard Model	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.

Specifications				
Retail Packaging	Product Dimensions	Box Dimensions	Master Carton Dimensions	Pallet Dimensions
Depth/Length (in/mm)	3.937 in/100 mm	1.22 in/31 mm	7.283 in/185 mm	47.244 in/1200 mm
Width (in/mm)	2.75 in/69.85 mm	6.496 in/165 mm	14.094 in/358 mm	39.37 in/1000 mm
Height (in/mm)	0.276 in/7 mm	5.315 in/135 mm	6.811 in/173 mm	42.913 in/1090 mm
Weight (lb/kg)	0.11 lb/0.05 kg	0.22 lb/0.1 kg	2.91 lb/1.32 kg	335.103 lb/152 kg
Quantities				
Boxes per Master Carton	10			
Master Cartons per Pallet	90			
Pallet Layers	6			

System Requirements	What's Included
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- SATA 6 Gb/s or SATA 3 Gb/s port
- Windows® 10, Windows 8 or Windows 7
- Linux
- Seagate® BarraCuda® SSD

Region	Model Number	Capacity	Colour	Limited Warranty (years)	UPC Code	EAN Code	Multi-Pack UPC
WW	STGS250401	250GB	Black	5	763649124833	3660619403486	10763649124830
WW	STGS500401	500GB	Black	5	763649124840	3660619403493	10763649124847
WW	STGS1000401	1TB	Black	5	763649124314	3660619403349	10763649124311
WW	STGS2000401	2TB	Black	5	763649124857	3660619403509	10763649124854

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