

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 540/520MB/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 2TB lets you stay in the flow no matter how much heavy lifting and multitasking is on your plate.

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



Specifications	2TB	1TB	500GB	250GB
Standard Model	ZA2000CM10002	ZA1000CM10002	ZA500CM10002	ZA250CM10002
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 ^{1,2}	560	560	560	560
Sequential Write (Max, MB/s), 128KB ^{1,2}	540	540	535	530
Random Read (Max, IOPS), 4KB QD32 ^{1,2}	90,000	90,000	90,000	90,000
Random Write (Max, IOPS), 4KB 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, Nonoperating (°C)	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Shock, Nonoperating: 0.5ms (Gs)	1500	1500	1500	1500
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 x64 on Windows 10 host.

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

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

Region	Model Number	Capacity	Color	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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