



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

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**Soar to new heights of performance** with Seagate BarraCuda SSD providing maximum sequential read and write speeds, reaching 540/520MB/s.

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**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.

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**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.

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

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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
<b>Performance</b>				
Sequential Read (Max, MB/s), 128KB <sup>1,2</sup>	560	560	560	560
Sequential Write (Max, MB/s), 128KB <sup>1,2</sup>	540	540	535	530
Random Read (Max, IOPS), 4KB QD32 <sup>1,2</sup>	90,000	90,000	90,000	90,000
Random Write (Max, IOPS), 4KB QD32 <sup>1,2</sup>	90,000	90,000	90,000	90,000
<b>Endurance/Reliability</b>				
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
<b>Power Management</b>				
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
<b>Environmental</b>				
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
<b>Physical</b>				
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
<b>Bulk Pack Specifications</b>				
Carton Unit Quantity	20	20	20	20
Cartons Per Pallet/Layer	96 / 48	96 / 48	96 / 48	96 / 48
<b>Special Features</b>				
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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