Fast. Dependable. Versatile.

SEAGATE

BARRACUDA

BarraCuda 520 SSD

Fast. Dependable. Versatile.

The Seagate® BarraCuda™ 520 SSD — storage designed to take your data to the next level.





Key Features

Amazing Speed
Unlocks sequential read/write speeds of up to 5,000/4,200 MB/s with PCIe® Gen4 ×4 NVMe™

Trusted Dependability
Offers a three-year, limited warranty and endurance up to 900 TB of TBW

Impressive Flexibility
Provides capacities of 512 GB to 4,096 GB, letting you select the right drive for your job and budget

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Slim Form Design
Features single-sided M.2 2280 for ultra-thin, ultra-small laptops, mini PCs, and desktop PCs

Improved Power Consumption
Promotes longer battery life and cooler running speeds with 5.7W active power and multiple low power modes

SSD Performance, Health and Firmware Monitoring
Tracks drive function and updates with free Seagate SeaTools™



RETAIL PACKAGING	BOX DIMENSIONS	MASTER CARTON DIMENSIONS	PALLET DIMENSIONS
Length (in/mm)	0.512 in/13 mm	7.717 in/196 mm	40 in/1016 mm
Width (in/mm)	5.236 in/133 mm	12.126 in/308 mm	47.992 in/1219 mm
Depth (in/mm)	7.008 in/178 mm	6.339 in/161 mm	44.094 in/1120 mm
Weight (lb/kg)	0.112 lb/0.051 kg	2.866 lb/1.3 kg	425.492 lb/193 kg

QUANTITIES	
Boxes per Master Carton	20
Master Cartons per Pallet	90
Pallet Layers	6

SYSTEM REQUIREMENTS
- M.2 (M key) slot, PCIe® G4 ×4 interface (backwards compatible with PCIe G3 interface)
- Windows® 11, Windows® 10
- Linux

WHAT'S INCLUDED
- Seagate® BarraCuda™ 520 SSD

REGION	MODEL NUMBER	CAPACITY	LIMITED WARRANTY (YEARS)	UPC CODE	EAN CODE	MULTI-PACK UPC
WW	ZP512CM3A002	512GB	3	763649182048	8719706437028	10763649182045
WW	ZP1024CM3A002	1024GB	3	763649182055	8719706437035	10763649182052
WW	ZP2048CM3A002	2048GB	3	763649182062	8719706437042	10763649182069
WW	ZP4096CM3A002	4096GB	3	763649182079	8719706437059	10763649182076

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SPECIFICATIONS	4096GB	2048GB	1024GB	512GB
Standard Model	ZP4096CM30002	ZP2048CM30002	ZP1024CM30002	ZP512CM30002
Interface	PCIe Gen4 ×4 NVMe 1.4	PCIe Gen4 ×4 NVMe 1.4	PCIe Gen4 ×4 NVMe 1.4	PCIe Gen4 ×4 NVMe 1.4
Form Factor	M.2 2280-S2	M.2 2280-S2	M.2 2280-S2	M.2 2280-S2
PERFORMANCE				
Sequential Read (Max, MB/s), 128KB[1]	5000MB/s	5000MB/s	5000MB/s	5000MB/s
Sequential Write (Max, MB/s), 128KB[1]	4,200	4,200	3,200	3,800
ENDURANCE/RELIABILITY				
Total Bytes Written (TB)	900	450	250	200
Mean Time Between Failures (MTBF, hours)	1,800,000 hr	1,800,000 hr	1,800,000 hr	1,800,000 hr
Warranty, Limited (years)	3	3	3	3
POWER MANAGEMENT				
Active Power, Max. Average (W)	5.1 W	5.7 W	5.6 W	5.5 W
Idle Power PS3, Average (mW)	50mW	50mW	50mW	50mW
Low Power PS4 (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
SPECIAL FEATURES				
TRIM	Yes	Yes	Yes	Yes
S.M.A.R.T.	Yes	Yes	Yes	Yes
RoHS compliance	Yes	Yes	Yes	Yes
PHYSICAL				
Length (mm/in, max)	80.15 mm/3.155 in	80.15 mm/3.155 in	80.15 mm/3.155 in	80.15 mm/3.155 in
Width (mm/in, max)	22.15 mm/0.872 in	22.15 mm/0.872 in	22.15 mm/0.872 in	22.15 mm/0.872 in
Height (mm/in, max)	2.23 mm/0.0877 in	2.23 mm/0.0877 in	2.23 mm/0.0877 in	2.23 mm/0.0877 in
Weight (lb/g)	8 g/0.0176 lb	8 g/0.0176 lb	8 g/0.0176 lb	8 g/0.0176 lb

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.6.0.2 ×64 on Windows 10 host with PCIe Gen4 motherboard.

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