

Fast. Dependable. Versatile.



BarraCuda 520 SSD

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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 5000/4200MB/s with PCIe® Gen4 x4 NVMe™

Trusted Dependability

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

Impressive Flexibility

Provides capacities of 512GB to 4096GB, letting you select the right drive for your job and budget

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BARRACUDA 520 SSD

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

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

SYSTEM REQUIREMENTS	WHAT'S INCLUDED
<ul style="list-style-type: none">• M.2 (M key) slot, PCIe® G4 x4 interface (backwards compatible with PCIe G3 interface)• Windows® 11, Windows® 10• Linux	<ul style="list-style-type: none">• 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

SPECIFICATIONS	4096GB	2048GB	1024GB	512GB
Standard Model	ZP4096CM30002	ZP2048CM30002	ZP1024CM30002	ZP512CM30002
Interface	PCIe Gen4 x4 NVMe 1.4	PCIe Gen4 x4 NVMe 1.4	PCIe Gen4 x4 NVMe 1.4	PCIe Gen4 x4 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)	1,800,000hr	1,800,000hr	1,800,000hr	1,800,000hr
Warranty, Limited (years)	3	3	3	3
POWER MANAGEMENT				
Active Power, Max. Average (W)	5.1W	5.7W	5.6W	5.5W
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, Nonoperating (°C)	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Shock, Nonoperating: 0.5ms (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)	80.15mm/3.155in	80.15mm/3.155in	80.15mm/3.155in	80.15mm/3.155in
Width (mm/in, max)	22.15mm/0.872in	22.15mm/0.872in	22.15mm/0.872in	22.15mm/0.872in
Height (mm/in, max)	2.23mm/0.0877in	2.23mm/0.0877in	2.23mm/0.0877in	2.23mm/0.0877in
Weight (g/lb)	8g/0.0176lb	8g/0.0176lb	8g/0.0176lb	8g/0.0176lb

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 x64 on Windows 10 host with PCIe Gen4 motherboard.