

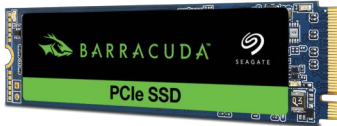
DATA SHEET

Fast. Dependable. Versatile.

# BarraCuda PCIe SSD



The Seagate® BarraCuda™ PCIe SSD—legendary storage designed for taking your data to the next level of performance, reliability, and efficiency.



## Best-Fit Applications

- Laptops
- Desktop PCs and workstations
- All-in-one PCs

## Key Advantages

---

**Amazing speed** of up to 3600MB/s enables accelerated boot-time, file transfers, and application loading.

---

**The trusted dependability** of the BarraCuda brand with a three-year limited warranty and 1.8 hours MTBF.

---

**Amazing versatility** with capacities of 250GB to 2TB lets you pick the right drive for the job and budget.

---

**Slim form factor** with M.2 2280 for laptops, mini PCs, and desktop PCs.

---

**Low power** consumption with up to 5.1W active power and multiple low power modes that make for longer battery life and cooler running speeds.

---

**Migrate and clone data from old drives with ease** using the included Seagate DiscWizard™ software tool.

---

**Monitor SSD performance, health, and firmware updates** with the included Seagate SeaTools™ software tool.



Specifications	2TB	1TB	500GB	250GB
Standard Model	ZP2000CV30002	ZP1000CV30002	ZP500CV30002	ZP250CV30002
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-D2	M.2 2280-D2	M.2 2280-S2	M.2 2280-S2
<b>Performance</b>				
Sequential Read (Max, MB/s), 128KB <sup>1</sup>	3600MB/s	3600MB/s	3600MB/s	3200MB/s
Sequential Write (Max, MB/s), 128KB <sup>1</sup>	2750	2800	2400	1300
<b>Endurance/Reliability</b>				
Total Bytes Written (TB)	1200	600	300	150
Mean Time Between Failures (MTBF, hours)	1800000hr	1800000hr	1800000hr	1800000hr
Warranty, Limited (years)	3	3	3	3
<b>Power Management</b>				
Active Power, Average (W)	5.1W	4.8W	4.8W	4.5W
Idle Power PS3, Average (mW)	0.04W	0.04W	0.04W	0.04W
Low Power L1.2 mode (mW)	5	5	5	5
<b>Environmental</b>				
Temperature, Operating Internal (°C)	0°C – 70°C	0°C – 70°C	0°C – 70°C	0°C – 70°C
Temperature, Nonoperating (°C)	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C
Shock, Nonoperating: 0.5ms (Gs)	1500Gs	1500Gs	1500Gs	1500Gs
<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
<b>Physical</b>				
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)	3.58mm/0.141in	3.58mm/0.141in	2.23mm/0.087in	2.23mm/0.087in
Weight (g/lb)	8g/0.0176lb	8g/0.0176lb	8g/0.0176lb	8g/0.0176lb

<sup>1</sup> 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.



Specifications			
Retail Packaging	Box Dimensions	Master Carton Dimensions	Pallet Dimensions
Length (in/mm)	0.512in/13mm	6.024in/153mm	40in/1016mm
Width (in/mm)	5.236in/133mm	11.496in/292mm	47.992in/1219mm
Depth (in/mm)	7.008in/178mm	5.512in/140mm	45.354in/1152mm
Weight (lb/kg)	0.112lb/0.051kg	2.866lb/1.3kg	288.806lb/131kg
Quantities			
Boxes per Master Carton	20		
Master Cartons per Pallet	90		
Pallet Layers	6		

System Requirements	What's Included
---------------------	-----------------

- M.2 (M key) slot, PCIe® G4 x4 interface (backwards compatible with PCIe G3 interface)
- Windows® 11, Windows® 10
- Linux
- Seagate® BarraCuda™ PCIe SSD

Region	Model Number	Capacity	Limited Warranty (years)	UPC Code	EAN Code	Multi-Pack UPC
WW	ZP250CV3A002	250GB	3	763649179222	8719706434577	10763649179229
WW	ZP500CV3A002	500GB	3	763649179239	8719706434584	10763649179236
WW	ZP1000CV3A002	1TB	3	763649179246	8719706434591	10763649179243
WW	ZP2000CV3A002	2TB	3	763649179253	8719706434607	10763649179250

[seagate.com](https://www.seagate.com)



© 2023 Seagate Technology LLC. All rights reserved. Seagate, Seagate Technology, and the Spiral logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. BarraCuda, DiscWizard, SeaTools, and the BarraCuda logo are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. The PCIe word mark and/or PCIExpress design mark are registered trademarks and/or service marks of PCI-SIG. All other trademarks or registered trademarks are the property of their respective owners. When referring to drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes. Your computer's operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions, and thus will not be available for data storage. Actual data rates may vary depending on operating environment and other factors, such as chosen interface and drive capacity. Seagate reserves the right to change, without notice, product offerings or specifications. DS2123.2-2303US