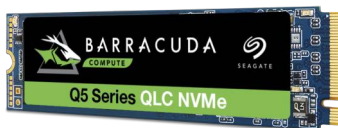# BARRACUDA
COMPUTE

SEAGATE

DATA SHEET

Speed. Versatility. Dependability.
BarraCuda Q5

Upgrade your PC with the Seagate® BarraCuda™ Q5 NVMe SSD and unleash performance speeds up to 50× faster than traditional HDDs. Designed with the latest 3D QLC NAND technology, BarraCuda Q5's slim M.2 2280 form factor provides optimal compatibility and easy plug-and-play installation.

Best-Fit Applications

- Desktop upgrades
- Laptop upgrades
- Workstation upgrades
- HDD or SSD swap-out upgrades

+ Rescue
DATA RECOVERY SERVICES

Upgrade to cost-effective SSD speeds with next-gen 3D QLC NAND

Leverage NVMe SSD speeds that are up to 50× faster than traditional hard drives

Harness high sequential read/write speeds (up to 2400/1800MB/s) for more responsive downloads, installs, and multitasking

Get easy installation and upgrades with a slim M.2 2280 NVMe form factor

Extend battery life with low active power requirements of up to 3.2W

Rely on a robust 3-year limited warranty and 1.8M-hours MTBF

One year of Rescue Data Recovery Services[1], offering an industry-leading 95% success rate against unexpected data loss

Benefit from long-term durability with up to 531TB total bytes written (TBW)

Migrate and clone data from old drives with ease using free Seagate DiscWizard™ software tool

Monitor SSD performance, health, and firmware updates with free Seagate SeaTools™ SSD software tool

1 Rescue Data Recovery Services not available in all countries.

Specifications	2TB	1TB	500GB
Capacity	2TB	1TB	500GB
Standard Model	ZP2000CV30001	ZP1000CV30001	ZP500CV30001
Interface	PCIe® Gen3 ×4 NVMe™ 1.3	PCIe Gen3 ×4 NVMe 1.3	PCIe Gen3 ×4 NVMe 1.3
NAND Flash Memory	3D QLC	3D QLC	3D QLC
Form Factor	M.2 2280-S2	M.2 2280-S2	M.2 2280-S2
Performance			
Sequential Read (Max, MB/s), 128KB[1]	2,400	2,400	2,300
Sequential Write (Max, MB/s), 128KB[1]	1,800	1,700	900
Endurance/Reliability			
Total Bytes Written (TB)	531	274	119
Mean Time Between Failures (MTBF, hours)	1,800,000	1,800,000	1,800,000
Warranty, Limited (years)	3	3	3
Rescue Data Recovery Services (years)	1	1	1
Power Management			
Active Power, Average (W)	3.3	3.1	2.2
Idle Power PS3, Average (mW)	25	27	23
Low Power L1.2 mode (mW)	1.6	1.6	1.5
Environmental			
Temperature, Operating Internal (°C)	0 to 70	0 to 70	0 to 70
Temperature, Nonoperating (°C)	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C
Shock, Nonoperating: 0.5ms (Gs)	1,500	1,500	1,500
Special Features			
TRIM	Yes	Yes	Yes
S.M.A.R.T.	Yes	Yes	Yes
Halogen Free	Yes	Yes	Yes
RoHS Compliance	Yes	Yes	Yes
Physical			
Height (mm/in, max)	2.15mm/0.084in	2.15mm/0.084in	2.15mm/0.084in
Width (mm/in, max)	22mm/0.866in	22mm/0.866in	22mm/0.866in
Depth (mm/in, max)	80mm/3.149in	80mm/3.149in	80mm/3.149in
Weight (g/lb)	7g/0.015lb	7g/0.015lb	7g/0.015lb

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 ×64 on Windows 10 host.

Specifications			
Retail Packaging	Box Dimensions	Master Carton Dimensions	Pallet Dimensions
Length (in/mm)	7.008in/178mm	11.417in/290mm	47.992in/1,219mm
Width (in/mm)	5.236in/133mm	7.008in/178mm	20in/508mm
Depth (in/mm)	0.512in/13mm	5.236in/133mm	37.283in/947mm
Weight (lb/kg)	0.112lb/0.051kg	2.875lb/1.304kg	428.49lb/194.36kg
Quantities			
Boxes per Master Carton	20		
Master Cartons per Pallet	30		
Pallet Layers	5		

System Requirements

- M.2 (M key) slot, PCIe G3 ×4 interface
- Windows® 10, Windows 8.1
- Linux

What's Included

- Seagate® BarraCuda™ Q5 SSD

Region	Model Number	Capacity	Limited Warranty (years)	UPC Code	EAN Code	Multi-Pack UPC
WW	ZP500CV3A001	500GB	3	763649147467	8719706027717	10763649147464
WW	ZP1000CV3A001	1TB	3	763649147474	8719706027724	10763649147471
WW	ZP2000CV3A001	2TB	3	763649147481	8719706027731	10763649147488

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