



DATA SHEET

Fast. Dependable. Versatile.

BarraCuda 515 SSD

The Seagate[®] BarraCuda[™] 515 SSD—legendary storage designed with integrated advanced data security features delivers high performance, advanced reliability, data protection, and security.





Best-Fit Applications

- Laptops
- Desktops
- Workstations
- Business PCs
- All-in-one PCs

Available from Seagate Government Solutions, for more information or a quote contact inquiries@seagategov.com

Key Advantages

Secure firmware meets strict encryption and security requirements set by the US Government to keep sensitive data protected and secure.

TCG Opal compliant self-encrypting SSD with strong AES-256 hardware-based encryption to help protect data-at-rest.

FIPS 140-2 Level 2 certified complies with corporate and federal data security mandates.

Common Criteria certified²—a complete FDE solution that meets the requirements of Commercial Solutions for Classified (CSfC) Data at Rest (DAR) Capabilities Package 5.0

Perpetual Cigent[®] **software license** includes Cigent Windows and PBA Software that protect data from all known physical and remote access attacks as well as zero-day ransomware.

Tamper-evident coating seals SSD's circuitry and components to provide physical security.

Instant secure erase enables safe, fast, and cost-effective SSD retirement or redeployment.

TAA-compliant satisfies fair and open international trade agreements.

Amazing speed PCIe[®] Gen3 ×4 interface delivers fast read and write speeds of up to 3400MB/s and 640,000 IOPS.

The trusted dependability of the BarraCuda brand with a 5-year limited warranty, and 1.8M hours MTBF.

Compact M.2 2280 form factor for laptops, mini PCs, and desktop PCs.

¹ NIST certificate #4294





Specifications	2048GB	1024GB	512GB	256GB
SED-FIPS 140-2 / Common Criteria Model	ZP2048MC30012	ZP1024MC30012	ZP512MC30012	ZP256MC30012
Interface	PCIe Gen3 x4, NVMe 1.3			
NAND Flash Memory	3D TLC	3D TLC	3D TLC	3D TLC
Form Factor	M.2 2280-D2	M.2 2280-D2	M.2 2280-D2	M.2 2280-D2
Performance				
Sequential Read (Max, MB/s), 128KB ¹	3400MB/s	3400MB/s	3400MB/s	3300MB/s
Sequential Write (Max, MB/s), 128KB ¹	3000	3100	2500	1300
Random Read (Max, IOPS), 4KB QD32 T8 ¹	640000IOPS	640000IOPS	420000IOPS	210000IOPS
Random Write (Max, IOPS), 4KB QD32 T8 ¹	640,000	640,000	625,000	320,000
Endurance/Reliability				
Total Bytes Written (TB)	2310	1140	545	245
Mean Time Between Failures (MTBF, hours)	1800000hr	1800000hr	1800000hr	1800000hr
Warranty, Limited (years)	5	5	5	5
Power Management				
Active Power, Average (W)	5.3W	5.3W	5.1W	5.0W
Idle Power PS3, Average (mW)	0.022W	0.021W	0.016W	0.016W
Low Power L1.2 mode (mW)	2	2	2	2
Environmental				
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
Bulk Pack Specifications				
Carton Unit Quantity	20	20	20	20
Cartons Per Pallet/Layer	54/6	54/6	54/6	54/6
Special Features				
TRIM	Yes	Yes	Yes	Yes
S.M.A.R.T.	Yes	Yes	Yes	Yes
RoHS Compliance	Yes	Yes	Yes	Yes
TCG Opal 2.0	Yes	Yes	Yes	Yes
Perpetual Cigent® Software License	Yes	Yes	Yes	Yes
TAA 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)	4.78mm/0.188in	4.78mm/0.188in	4.78mm/0.188in	4.78mm/0.188in
Weight (g/lb)	9.2g/0.0203lb	8.9g/0.0196lb	8.5g/0.0187lb	8.5g/0.0187lb

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.

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