

M.2 SATA Solid State Drive



ORANGE+

Features:

- Capacity: 128GB, 256GB, 512GB, 1TB
- Form Factor: 80mm M.2 (80mm SATA B Key)
- Reliable QLC, TLC and MLC NAND type flash
- Electrically fully complied with the SATA -II/SATA -III standards
- Complied with the slot B primary key SSD SATA pin out
- Modules with the “B” and “M” key for ultimate performance SSD or cache
- Data retention: JESD47 compliant
- S.M.A.R.T. command transport (SCT) technology
- Enhanced endurance by dynamic/static wear-leveling
- Hardware LDPC ECC engine
- Data integrity under power-cycling
- Spec meet Next Generation Form Factor (NGFF -xx-B-M)
- 100% tested HW and SW



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SPECIFICATION

System Requirements

Operating Voltage Requirement	Vcc = 3.3V +/-5%
Operating System	Supported by all operating systems
Interface	SATA 6.0Gbps (SATA-III) or SATA 3.0Gbps (SATA-II) or SATA 1.5Gbps

Physical Specifications

Length	80.0 ± 0.2 mm
Width	22.0± 0.2 mm
Thickness	2.20 ± 0.15 mm
Weight	<7.0g

Data Transfer Speed (R / W)

Seq. Read / Write	530* MB/s / 515* MB/s (128GB, 256GB, 512GB, 1TB)
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Performance Specifications

Access Time	0.2 ms
Seek Time	0 ms
Mount Time	Dependent on system HW and SW
Power on to Ready	Dependent on system HW and SW
Data Transfer Time	Rated Data Transfer Speeds are maximums based on Crystal Disk Mark 6.0

Environmental Specifications

Operating Temperature	Commercial Grade: 0°C to +70°C, Industrial Grade: -40°C to +85°C
Humidity	5% to ~98% RH
Operating Shock	1500G
Operating Vibration	16G
Operating Altitude	TBD

Model No:

S1-OM2-128	S1-OM2-512
S1-OM2-256	S1-OM2-1TB