

SATA DOM



ADATA SATA III 6Gbps Disk-On-Module (DOM) features the best quality hardware components and come with the most comprehensive internal support software, making the device compliant with JEDEC specifications. The low-power design of the product is intended for industrial applications and takes advantage of ADATA's proprietary A+ Testing Methodology, ensuring that the drives meet the exacting requirements of industrial applications. As for SSD quality, compatibility and reliability, ADATA has developed its own SSD Validation mechanism for functionality testing and reliability validation. The strict quality controls provide industrial systems with the best choice for reliability. ADATA Toolbox provides SSD management S.M.A.R.T and system optimization, which helps optimize industrial systems.

Key Features

- Supports SATA III 6Gbps and 3Gbps backwards
- Standard SATA 7pin connector
- High-speed MLC NAND Flash
- High reliability and excellent performance
- H/W Power Detector and Flash Protection
- Flash Management
- S.M.A.R.T. function
- A+ SLC Support



Horizontal



Vertical

Target Applications

Automation, POS, Digital Security, Surveillance, Digital Signature, Navigation, In-Vehicle Infotainment, Industry Embedded Systems, Networking, Healthcare, Medical Device, Military and defense

	Wide Temperature	ESD and EMI Safe	Shock and Vibration Resistant	Lifetime Monitoring (LTM)	Secure Erase (Sanitize/Purge/Fast Erase)	Temperature Sensor	Power Fail Protection & Recovery	Wear Leveling	Read-only Optimized	TRIM	Low Power Consumption
ISMS312	—	●	●	●	▲	●	—	●	▲	●	●

● Supported ▲ By Request — Not Available



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Specifications

Model	ISMS312
Interface	SATA 7PIN
Capacity	8GB / 16GB / 32GB
Operating Voltage	5V
Flash Type	MLC
Sequential Read (Max.)	Up to 250MB/s
Sequential Write (Max.)	Up to 40MB/s
Data Transfer Mode	SATA III 6.0Gbps
Operating Temperature	Commercial: 0 °C to +70 °C, Industrial: -40 °C to +85 °C
Operating Humidity	5%~95% RH non-condensing
Power Consumption (Max.)	1.15W
MTBF	1,000,000 hours
Vibration Resistance	20G (80~2000Hz)
Shock Resistance	1500G/0.5ms, Half Sine Wave
Dimensions (LxWxH)	40.5 x 25 x 6.8mm
S.M.A.R.T.	Supported

Ordering Information

Capacity	MLC Vertical 0°C to 70°C	MLC Horizontal 0°C to 70°C	MLC Vertical -40°C to 85°C	MLC Horizontal -40°C to 85°C
8GB	ISMS312-008GMV	ISMS312-008GMH	ISMS312-008GTV	ISMS312-008GTH
16GB	ISMS312-016GMV	ISMS312-016GMH	ISMS312-016GTV	ISMS312-016GTH
32GB	ISMS312-032GMV	ISMS312-032GMH	ISMS312-032GTV	ISMS312-032GTH

Dimensions

