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 advanced 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 SLC/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

Target Applications

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

Vertical

	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	TRIM	Low Power Consumption
ISMS312	—	●	●	●	●	●	●	●	●	●

● Supported

Specifications

Model	ISMS312	
Interface	SATA 7PIN	
Flash Type	SLC	MLC
Operating Voltage	5V	
Capacity	4GB-32GB	8GB-32GB
Sequential Read (max. est.)	Up to 65MB/s	Up to 255MB/s
Sequential Write (max. est.)	Up to 65MB/s	Up to 40MB/s
Data Transfer Mode	SATA III 6.0Gbps	
Operating Temperature	Commercial: 0 $^{\circ}$C to +70 $^{\circ}$C, Industrial: -40 $^{\circ}$C to +85 $^{\circ}$C	
Operating Humidity	5%~95% RH non-condensing	
Power Consumption (max.)	1.15W	
MTBF (est.)	>2,000,000 hours	>1,000,000 hours
Vibration Resistance	20G (80~2000Hz)	
Shock Resistance	1500G/0.5ms, Half Sine Wave	
Dimensions (L x W x H)	Vertical Connector With Housing : 40.7 x 25.1x 7mm Without Housing : 38.6 x 23.6 x 8.7m Horizontal Connector With Housing : 34.8 x 25.1 x 7mm Without Housing : 32.8x 23.6 x 17mm	
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

Capacity	SLC Vertical 0°C to 70°C	SLC Horizontal 0°C to 70°C	SLC Vertical -40°C to 85°C	SLC Horizontal -40°C to 85°C
4GB	ISMS312-004GFV	ISMS312-004GFH	ISMS312-004GWV	ISMS312-004GWH
8GB	ISMS312-008GFV	ISMS312-008GFH	ISMS312-008GWV	ISMS312-008GWH
16GB	ISMS312-016GFV	ISMS312-016GFH	ISMS312-016GWV	ISMS312-016GWH
32GB	ISMS312-032GFV	ISMS312-032GFH	ISMS312-032GWV	ISMS312-032GWH

Dimensions