

mSATA SSD



The IMSS312 mSATA SSD is in strict compliance with JEDEC MO-300A specifications and fully suitable for industrial applications and embedded computing devices. It provides a multi-functional, cost effective, and reliable solution for industrial storage systems. IMSS312 products can readily operate within a commercial temperature range of 0°C to 70°C and withstand industrial environment extremes from -40°C to 85°C. In addition, like all ADATA SSDs they pass rigorous functionality tests and reliability validation to ensure the highest stability.

Key Features

- Complies with JEDEC MO-300A specs
- PLP (Power Loss Protection)
- Open API management
- High speed MLC NAND Flash
- S.M.A.R.T data integrity verification
- Flash management
- Wear leveling prolongs drive lifespan
- Hardware power detector and Flash protection



Target Applications

Embedded storage systems, POS, kiosks, gaming, MFP, medical devices and factory automation.

	Wide Temperature	ESD and EMI Safe	Shock and Vibration Resistant	Lifetime Monitoring (LTM)	Secure Erase	Temperature Sensor	Power Fail Protection & Recovery	Wear Leveling	TRIM	Low Power Consumption
IMSS312	●	●	●	●	●	●	●	●	●	●

● Supported



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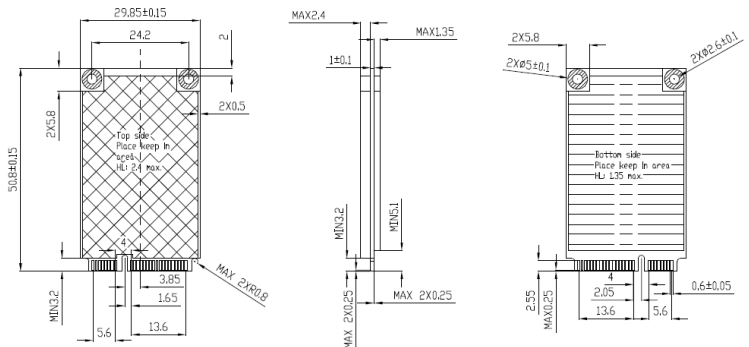
Specifications

Model	IMSS312
Interface	MO-300A mSATA
Capacity	8GB-128GB
Flash Type	MLC
Operating Voltage	3.3V
Sequential Read (Max)	Up to 430MB/s
Sequential Write (Max)	Up to 130MB/s
Data Transfer Mode	SATA III 6Gbps
Operating Temperatures	Commercial: 0°C to 70°C Industrial: -40°C to 85°C
Operating Humidity	5%~95% RH non-condensing
Power Consumption (Max)	2W
MTBF (est.)	>1,500,000 hours
Vibration Resistance	20G (10~2000Hz)
Shock Resistance	1500G/0.5ms, Half Sine Wave
Dimensions (L x W x H)	50.95 x 30 x 4.75mm
S.M.A.R.T.	Supported

Ordering Information

Capacity	MLC	MLC
	0°C to 70°C	-40°C to 85°C
8GB	IMSS312-008GM	IMSS312-008GT
16GB	IMSS312-016GM	IMSS312-016GT
32GB	IMSS312-032GM	IMSS312-032GT
64GB	IMSS312-064GM	IMSS312-064GT
128GB	IMSS312-128GM	IMSS312-128GT

Dimensions



- HL=2.4mm MAX
- HL=1.35mm MAX
- HL=0mm MAX
- HL=0mm MAX