

mSATA SSD

IMSS31D



The mSATA ADATA IMSS31D industrial-grade SATA SSD is equipped with 112-layer 3D TLC (BiCS5) NAND flash for excellent read/write performance and high capacities. Its 3K P/E cycle rating ensures long-lasting durability while SLC Cache offer improved IOPS and read and write speeds. What's more, with LDPC ECC error correction and RAID Engine, the IMSS31D ensures data accuracy and integrity. The SSD comes in a range of capacities for different requirements. Customers can also benefit from ADATA's proprietary A+ SSDTOOL software for easy management and real-time monitoring of ADATA SSDs. The IMSS31D is ideal for retail (POS), industrial PCs, automation, networking, transportation, healthcare and surveillance applications.

Features

- 112-layer 3D TLC (BiCS5) NAND Flash for higher capacities and greater durability
- 3K P/E cycle rating for durability and reliability
- LDPC ECC error correction, RAID Engine, and Wear Leveling
- Thermal Throttling automatically adjusts temperatures to prolong product lifespan
- Suitable for retail (POS), industrial PCs, automation, networking, transportation, healthcare, and surveillance

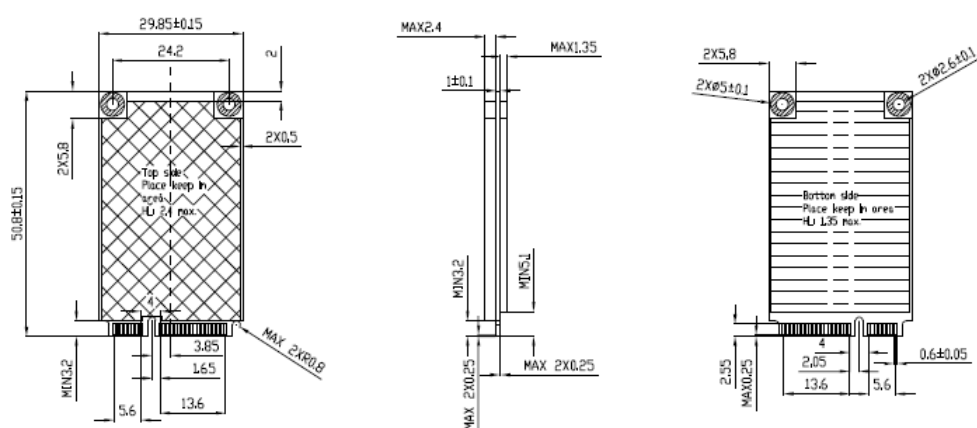
Ordering Information

Operating Temp.	128GB	256GB	512GB	1TB	2TB
0°C to 70°C	IMSS31D-128GCTB5	IMSS31D-256GCTB5	IMSS31D-512GCTB5	IMSS31D-001TCTB5	IMSS31D-002TCTB5

Specifications

Model	IMSS31D
Form Factor	mSATA
Capacity	128GB – 2TB
Interface	SATA III
Flash Type	112L 3D TLC
Dimensions (L x W x H)	50.8 x 29.85 x 4.5mm
Sequential Read (Max.)	560MB/s
Sequential Write (Max.)	490MB/s
Operating Temperature (Standard)	0°C to 70°C
Operating Temperature (Industrial)	-
Operating Voltage	3.3V
Power Consumption (Max.)	1.1W
Shock Resistance	1500G/0.5ms, Half Sine Wave
Operating Humidity	5%-95% RH, non-condensing
Vibration Resistance	20G (20-2000Hz)
Technologies	LDPC ECC, RAID Engine, Wear Leveling, TRIM command, Thermal Throttling, S.M.A.R.T. Monitor, SLC Cache, ESD Support (IEC/EN 61000-4-2 level 4), End-to-End Data Path Protection, Bad block management

Diagram



Unit: mm

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