

mSATA SSD

IMSS31C



The ADATA IMSS31C industrial-grade mSATA 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 a DRAM Buffer offers improved IOPS and read and write speeds. What's more, with LDPC ECC error correction and RAID Engine, the IMSS31C 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 IMSS31C is ideal for industrial PCs, embedded devices, automation, networking, surveillance, and transportation applications.

Features

- 112-layer 3D TLC (BiCS5) NAND flash for higher capacities, efficiency, and durability
- 3K P/E cycle rating for excellent durability and reliability
- Available in capacities up to 1TB
- DRAM Buffer
- LDPC ECC error correction, RAID Engine, and Bad block management
- Thermal Throttling automatically adjusts temperatures for prolonged product lifespan
- Suitable for industrial PCs, embedded devices, automation, networking, surveillance, and transportation

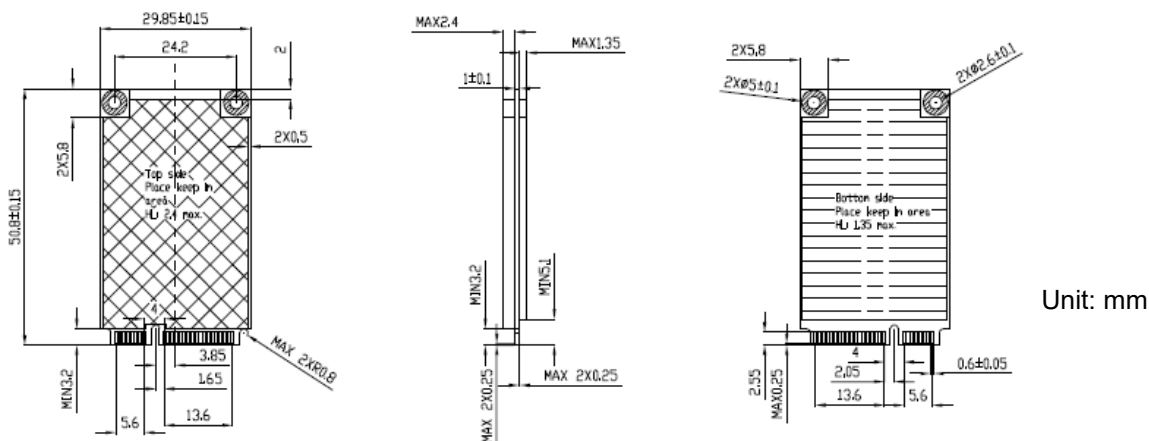
Ordering Information

Operating Temp.	128GB	256GB	512GB	1TB
0°C to 70°C	IMSS31C-128GCTB5	IMSS31C-256GCTB5	IMSS31C-512GCTB5	IMSS31C-001TCTB5

Specifications

Model	IMSS31C
Form Factor	mSATA (MO-300A)
Capacity	128GB – 1TB
Interface	SATA III 6.0Gbps
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.)	480MB/s
Operating Temperature (Standard)	0°C to 70°C
Operating Voltage	3.3V
Power Consumption (Max)	2.1W
Shock Resistance	1500G/0.5ms, Half Sine Wave
Operating Humidity	5%-95% RH, non-condensing
Vibration Resistance	20G (20-2000Hz)
Technologies	DRAM Buffer, LDPC ECC, RAID Engine, Wear Leveling, SLC Cache, TRIM Command, Thermal Throttling, S.M.A.R.T. Monitor, Bad block management, ESD Support (IEC/EN 61000-4-2 level 4)

Diagram



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