

mSATA SSD

IMSS31CP



The mSATA ADATA IMSS31CP industrial-grade SSD is equipped with 112-layer 3D TLC (BiCS5) NAND flash to provide excellent read and write performance as well as high capacities. What's more, with PLP (Power Loss Protection) these SSDs guard against data loss when a sudden power failure occurs and feature additional capacitors with a short circuit protection mechanism. With support for LDPC (Low-Density Parity-Check) error correcting code technology, IMSS31CP SSDs can detect and fix errors to ensure data integrity and thus enjoy extended lifespans. These SSDs are purpose-made for car-mounted systems, base stations, transportation, aerospace, defense, and surveillance system applications. To ensure SSD quality, compatibility, and reliability, all IMSS31CP SSDs undergo ADATA's SSD validation process, covering functionality testing and reliability validation.

Features

- 112-layer 3D TLC (BiCS5) NAND Flash for higher capacities and greater durability
- Power Loss Protection (PLP)
- Capacitors with short circuit protection mechanism
- 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 car-mounted systems, base stations, transportation, aerospace, defense, and surveillance system applications.

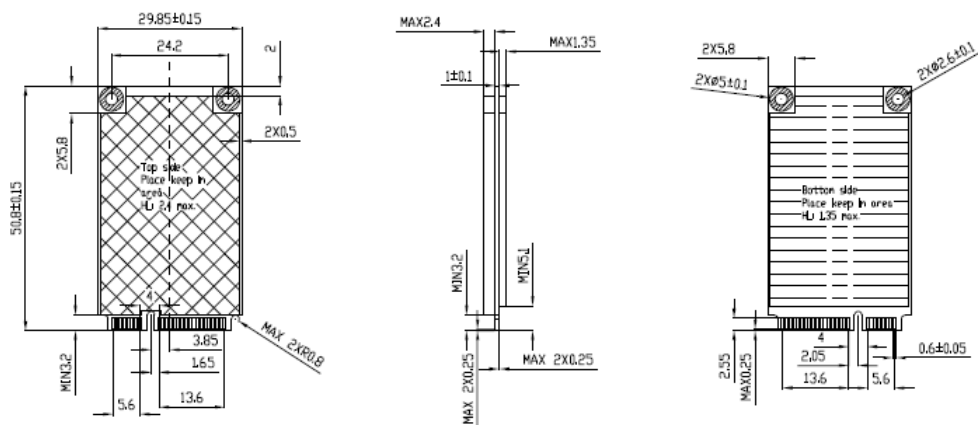
Ordering Information

Operating Temp.	128GB	256GB	512GB
0°C to 70°C	IMSS31CP-128GCTB5	IMSS31CP-256GCTB5	IMSS31CP-512GCTB5

Specifications

Model	IMSS31CP
Form Factor	mSATA (MO-300A)
Capacity	128GB – 512GB
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.)	2.1W
Shock Resistance	1500G/0.5ms, Half Sine Wave
Operating Humidity	5%-95% RH, non-condensing
Vibration Resistance	20G (20-2000Hz)
Technologies	Power Loss Protection (PLP), LDPC ECC, RAID Engine, Wear Leveling, TRIM command, Thermal Throttling, S.M.A.R.T. Monitor, DRAM Buffer, SLC Cache, ESD Support (IEC/EN 61000-4-2 level 4), TCG OPAL 2.0 AES 256-bit Data Encryption, End-to-End Data Path Protection, Bad block management

Diagram



Unit: mm

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