

2.5" SSD

ISSS31CP



The 2.5-inch ADATA ISSS31CP 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, ISSS31CP 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 ISSS31AP 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

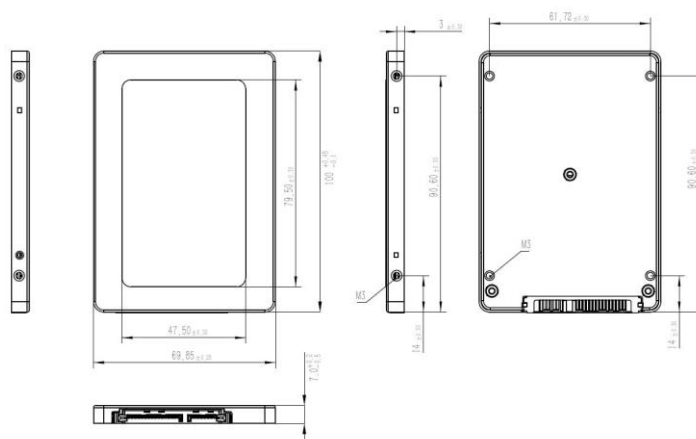
Ordering Information

Operating Temp.	128GB	256GB	512GB	1TB	2TB
0°C to 70°C	ISSS31CP-128GCTB5	ISSS31CP-256GCTB5	ISSS31CP-512GCTB5	ISSS31CP-001TCTB5	ISSS31CP-002TCTB5

Specifications

Model	ISSS31CP
Form Factor	2.5"
Capacity	128GB – 2TB
Interface	SATA III
Flash Type	112L 3D TLC
Dimensions (L x W x H)	100 x 70 x 7mm
Sequential Read (Max.)	560MB/s
Sequential Write (Max.)	490MB/s
Operating Temperature (Standard)	0°C to 70°C
Operating Temperature (Industrial)	-
Operating Voltage	5V
Power Consumption (Max.)	2.5W
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), End-to-End Data Path Protection, Bad block management

Diagram



Unit: mm

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