

2.5" SSD

ISSS31CP (eTLC)



The 2.5-inch ADATA ISSS31CP industrial-grade SSD is equipped with 112-layer 3D eTLC (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 AIoT, 5G, transportation, NAS, edge computing, and surveillance system applications. To ensure SSD quality, compatibility, and reliability, all ISSS31CP SSDs undergo ADATA's SSD validation process, covering functionality testing and reliability validation.

Features

- 112-layer 3D eTLC (BiCS5) NAND Flash for higher capacities and greater durability
- Power Loss Protection (PLP), DRAM Buffer
- Capacitors with short circuit protection mechanism
- 7K P/E cycle rating for great durability and reliability
- Comes in capacities up to 1.92TB (DWPD=1.6)
- LDPC ECC error correction, RAID Engine, TCG OPAL 2.0 and Wear Leveling
- Thermal Throttling automatically adjusts temperatures to prolong product lifespan
- Suitable for AIoT, 5G, transportation, NAS, edge Computing, and surveillance system applications.

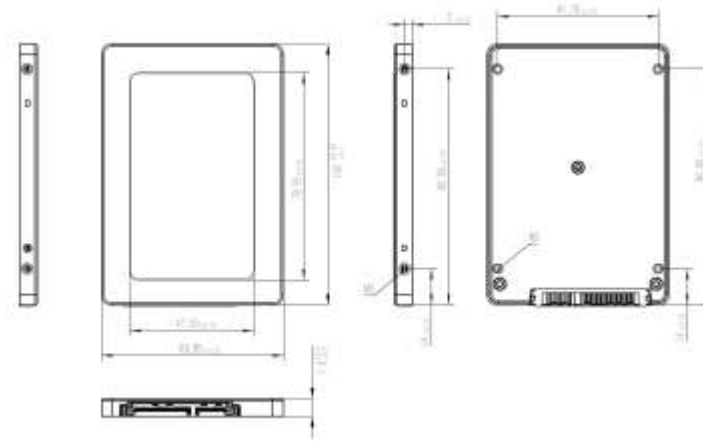
Ordering Information

Operating Temp.	480GB	960GB	1.92TB
0°C to 70°C	ISSS31CP-480GCTB5	ISSS31CP-960GCTB5	ISSS31CP-1T92CTB5

Specifications

Model	ISSS31CP(eTLC)
Form Factor	2.5"
Capacity	480GB – 1.92TB
Interface	SATA III 6.0Gbps
Flash Type	112L 3D eTLC
Dimensions (L x W x H)	100 x 70 x 7mm
Sequential Read (Max.)	550MB/s
Sequential Write (Max.)	380MB/s
Operating Temperature (Standard)	0°C to 70°C
Operating Voltage	5V
Power Consumption (Max.)	2.2W
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, End-to-End Data Path Protection, Bad block management

Diagram



Unit: mm

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