

## 2.5" SSD

### ISSS31C



The 2.5-inch ADATA ISSS31C 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, it also features a 3K P/E cycle rating for long-lasting durability. The ISSS31C's level of energy efficiency, reliability, safety, and performance meet the strict requirements of industrial applications. Other valuable features include DRAM Buffer for improved IOPS and read and write, and LDPC ECC error correction and RAID Engine for data accuracy and integrity. The ISSS31C has high compatibility and is suitable 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
- Low power consumption: 2.2W
- Wide temperature support: -40°C to 85°C
- LDPC ECC error correction, RAID Engine, and DRAM Buffer
- Thermal Throttling automatically adjusts temperatures for prolonged product lifespan
- Suitable for industrial PCs, embedded devices, automation, networking, surveillance, and transportation

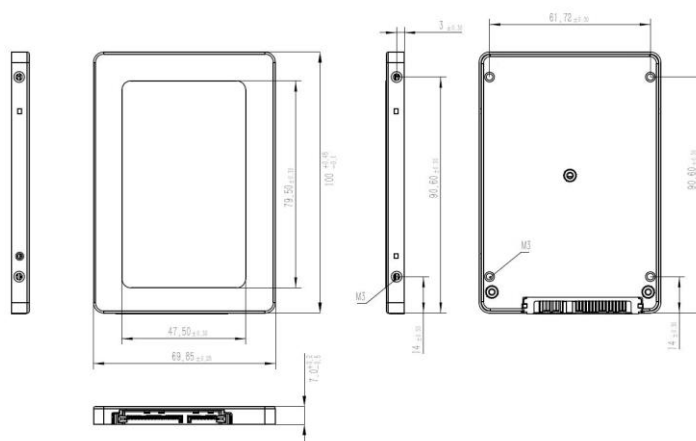
### Ordering Information

Operating Temp.	128GB	256GB	512GB	1TB	2TB	4TB
0°C to 70°C	ISSS31C-128GCTB5	ISSS31C-256GCTB5	ISSS31C-512GCTB5	ISSS31C-001TCTB5	ISSS31C-002TCTB5	ISSS31C-004TCTB5
-40°C to 85°C	ISSS31C-128GITB5	ISSS31C-256GITB5	ISSS31C-512GITB5	ISSS31C-001TITB5	ISSS31C-002TITB5	
-20°C to 75°C	ISSS31C-128GSTB5	ISSS31C-256GSTB5	ISSS31C-512GSTB5	ISSS31C-001TSTB5	ISSS31C-002TSTB5	ISSS31C-004TSTB5

## Specifications

Model	ISSS31D
Form Factor	2.5"
Capacity	128GB – 4TB
Interface	SATA III
Flash Type	112-layer 3D TLC
Dimensions (L x W x H)	100 x 70 x 7mm
Sequential Read (Max.)	560MB/s
Sequential Write (Max.)	500MB/s
Operating Temperature (Standard)	0°C to 70°C
Operating Temperature (Industrial)	-40°C to 85°C
Operating Temperature (Extended)	-20°C to 75°C
Operating Voltage	5V
Power Consumption (Max.)	2.2W
Shock Resistance	1500G/0.5ms
Operating Humidity	5%-95 RH, non-condensing
Vibration Resistance	20G (20-2000Hz)
Technologies	LDPC ECC, RAID Engine, Wear Leveling, SLC Cache, DRAM Buffer, TRIM and NCQ command, Thermal Throttling, S.M.A.R.T. Monitor, End-to-End Data Path Protection, ESD Support (IEC/EN 61000-4-2 level 4)

## Diagram



Unit: mm

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