

# M.2 2280 SSD

## IM2S31C8P



The ADATA IM2S31C8P SATA M.2 2280 SSD employs 112-layer 3D TLC (BiCS5) NAND flash for high capacities and excellent performance. Its 3K P/E cycle rating ensures long-lasting durability while a DRAM Buffer offers improved IOPS and 4K read/write speeds. What's more, they come with PLP (Power Loss Protection) to guard against data loss during power failures and polymer capacitors to prevent short circuiting. With support for LDPC (Low-Density Parity-Check) error correction code technology, the IM2S31C8P ensures data accuracy and integrity. The SSD comes in a range of capacities for different requirements. The IM2S31C8P is ideal for 5G networking, IPC, automation, transportation, healthcare and surveillance related applications.

### Features

- Power Loss Protection (PLP)
- Tantalum polymer capacitors with short circuit protection mechanism
- 3K P/E cycle rating for great durability and reliability
- DRAM Buffer
- LDPC ECC error correction, RAID Engine, and End-to-End Data Path Protection
- Suitable for 5G networking, IPC, automation, transportation, healthcare and surveillance related applications

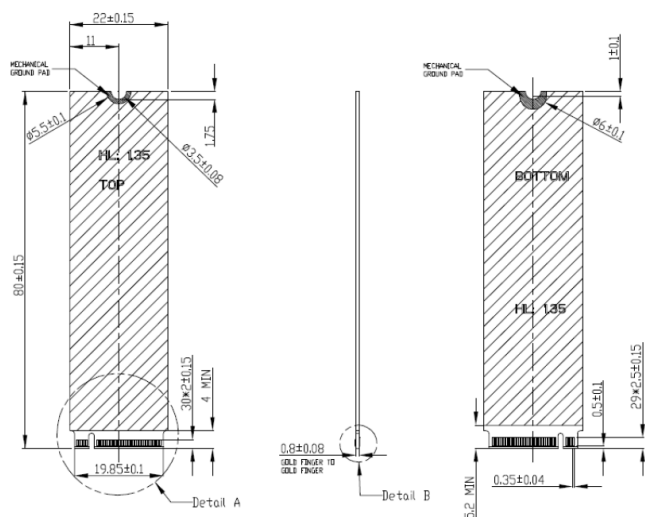
### Ordering Information

Operating Temp.	128GB	256GB	512GB	1TB	2TB
0°C to 70°C	IM2S31C8P-128GCTB5	IM2S31C8P-256GCTB5	IM2S31C8P-512GCTB5	IM2S31C8P-001TCTB5	IM2S31C8P-002TCTB5

## Specifications

Model	IM2S31C8P
Form Factor	M.2 2280
Capacity	128GB – 2TB
Interface	SATA III
Flash Type	112L 3D TLC
Dimensions (L x W x H)	80 x 22 x 3.6mm
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, DRAM Buffer, SLC Cache, TRIM Command, Thermal Throttling, S.M.A.R.T. Monitor, End-to-end Data Path Protection

## Diagram



Unit: mm

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