

M.2 2280 SSD

IM2S31C8



The ADATA IM2S31C8 M.2 2280 SSD is equipped with 112-layer 3D TLC (BiCS5) NAND flash for excellent read/write performance and high capacities. Its 3K P/E cycle rating ensures long-lasting durability while a DRAM Buffer offers improved IOPS and read and write speeds. What's more, with LDPC ECC error correction and RAID Engine, the IM2S31C8 ensures data accuracy and integrity. The SSD comes in a range of capacities for different requirements. Customers can also benefit from ADATA's proprietary A+ SSSDTool software for easy management and real-time monitoring of ADATA SSDs. The IM2S31C8 is ideal 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
- Comes with DRAM Buffer
- 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
- Complies with ESD (Electrostatic Discharge) IEC/EN 61000-4-2 level 4 standard
- Suitable for industrial PCs, embedded devices, automation, networking, surveillance, and transportation

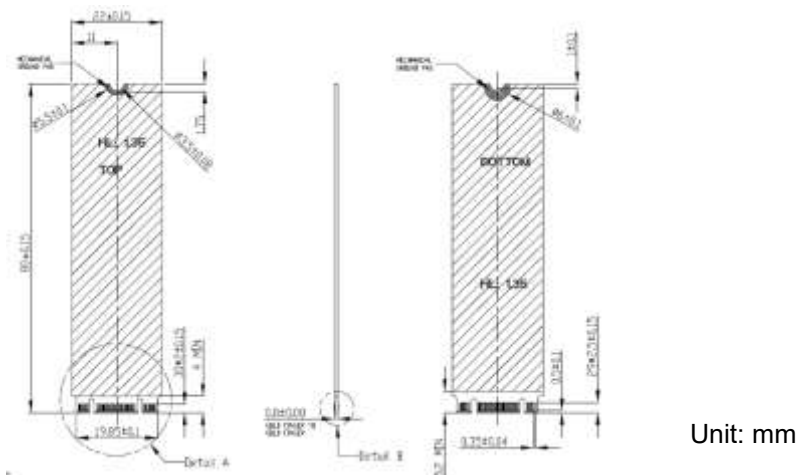
Ordering Information

Operating Temp.	128GB	256GB	512GB	1TB	2TB
0°C to 70°C	IM2S31C8-128GCTB5	IM2S31C8-256GCTB5	IM2S31C8-512GCTB5	IM2S31C8-001TCTB5	IM2S31C8-002TCTB5
-40°C to 85°C	IM2S31C8-128GITB5	IM2S31C8-256GITB5	IM2S31C8-512GITB5	IM2S31C8-001TITB5	IM2S31C8-002TITB5
-20°C to 75°C	IM2S31C8-128GSTB5	IM2S31C8-256GSTB5	IM2S31C8-512GSTB5	IM2S31C8-001TSTB5	IM2S31C8-002TSTB5

Specifications

Model	IM2S31C8
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.)	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	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	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



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