



## M.2 2280 SSD

### IM2S31D8



The ADATA IM2S31D8 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 SLC Cache offer improved IOPS and read and write speeds. What's more, with LDPC ECC error correction and RAID Engine, the IM2S31D8 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 IM2S31D8 is ideal for retail(POS), industrial PCs, automation, networking, transportation, healthcare and surveillance applications.

### Features

- 112-layer 3D TLC (BiCS5) NAND Flash for higher capacities and greater durability
- 3K P/E cycle rating for durability and reliability
- LDPC ECC error correction, RAID Engine and Wear Leveling
- Thermal Throttling automatically adjusts temperatures for prolonged product lifespan
- Suitable for industrial retail(POS), industrial PCs, automation, networking, transportation, healthcare and surveillance

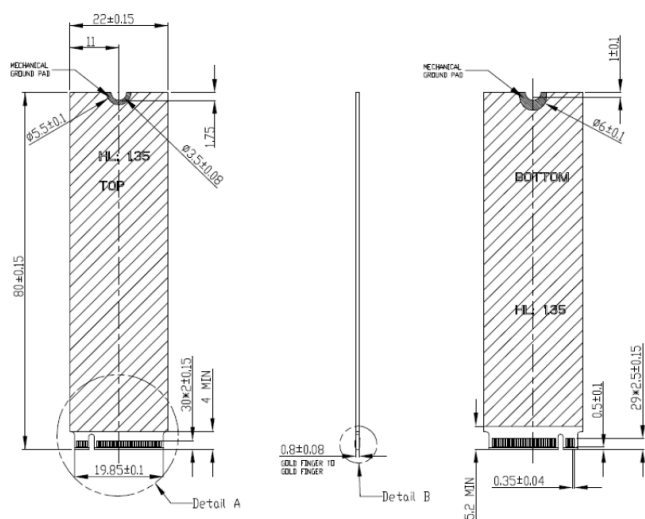
### Ordering Information

Operating Temp.	128GB	256GB	512GB	1TB	2TB
0°C to 70°C	IM2S31D8-128GCTB5	IM2S31D8-256GCTB5	IM2S31D8-512GCTB5	IM2S31D8-001TCTB5	IM2S31D8-002TCTB5
-40°C to 85°C	IM2S31D8-128GITB5	IM2S31D8-256GITB5	IM2S31D8-512GITB5	IM2S31D8-001TITB5	IM2S31D8-002TITB5

## Specifications

Model	IM2S31D8
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 2.25mm
Sequential Read (Max.)	560MB/s
Sequential Write (Max.)	480MB/s
Operating Temperature (Standard)	0°C to 70°C
Operating Temperature (Industrial)	-40°C to 85°C
Operating Voltage	3.3V
Power Consumption (Max)	1.5W
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, TRIM command, Thermal Throttling, S.M.A.R.T. Monitor, SLC Cache, ESD Support (IEC/EN 61000-4-2 level 4), End-to-End Data Path Protection, Bad block management

## Diagram



Unit: mm

## Contact Us

### HQ (Taiwan):

T: +886-8228-0886

E: [IA\\_Global@adata.com](mailto:IA_Global@adata.com)

### US:

T: +1-714-332-8708

E: [IASales\\_us@adata.com](mailto:IASales_us@adata.com)

### EU:

T: +49-899-0405-296

E: [IASales\\_eu@adata.com](mailto:IASales_eu@adata.com)

### China

T: +86-21-6233-1010

E: [IASales\\_cn@adata.com](mailto:IASales_cn@adata.com)

### JP:

T: +81-3-5807-0011

E: [IASales\\_jp@adata.com](mailto:IASales_jp@adata.com)

### APAC/MEA:

E: [IASales\\_apacmea@adata.com](mailto:IASales_apacmea@adata.com)