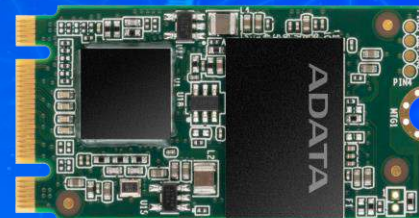


## M.2 2242 SSD

### IM2S3164



The ADATA IM2S3164 M.2 2242 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. What's more, with LDPC ECC error correction and RAID Engine, the IM2S3164 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+ SSSD TOOL software for easy management and real-time monitoring of ADATA SSDs. The IM2S3164 is ideal for automation, embedded system, 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
- Wide temperature support: -40°C to 85°C
- LDPC ECC (error correction) technology
- Supports RAID Engine and SLC Cache
- Thermal Throttling automatically adjusts temperatures for prolonged product lifespan
- Suitable for automation, embedded system, networking, surveillance and transportation applications

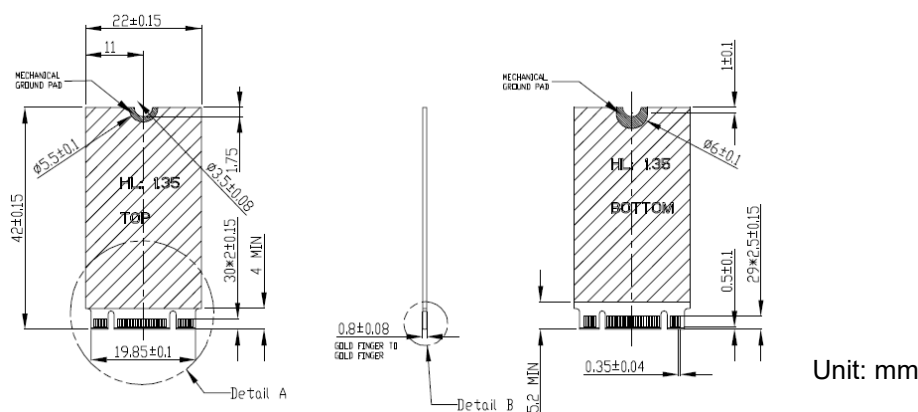
### Ordering Information

Operating Temp.	128GB	256GB	512GB	1TB
0°C to 70°C	IM2S3164-128GCTB5	IM2S3164-256GCTB5	IM2S3164-512GCTB5	IM2S3164-001TCTB5
-40°C to 85°C	IM2S3164-128GITB5	IM2S3164-256GITB5	IM2S3164-512GITB5	IM2S3164-001TITB5

## Specifications

Model	IM2S3164
Form Factor	M.2 2242
Capacity	128GB – 1TB
Interface	SATA III
Flash Type	112L 3D TLC
Dimensions (L x W x H)	42 x 22 x 3.6mm
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)	1.37W
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, TRIM and NCQ command, Thermal Throttling, S.M.A.R.T. Monitor, AES 256-bit Data Encryption

## Diagram



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