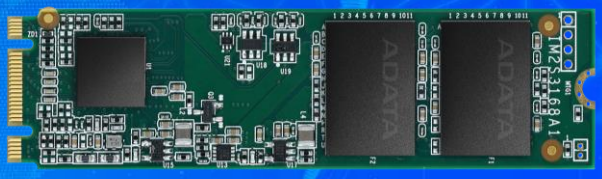
ADATA®
INDUSTRIAL

Datasheet

M.2 2280 SSD

IM2S3168



The ADATA IM2S3168 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. What's more, with LDPC ECC error correction and RAID Engine, the IM2S3168 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⁺ SSDTOOL software for easy management and real-time monitoring of ADATA SSDs. The IM2S3168 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

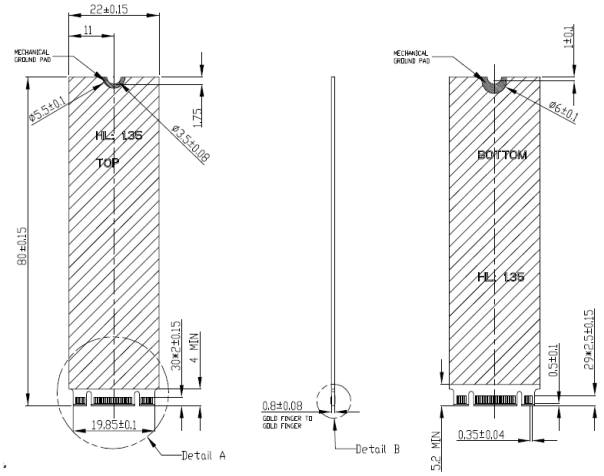
Ordering Information

Operating Temp.	128GB	256GB	512GB	1TB	2TB
0°C to 70°C	IM2S3168-128GCTB5	IM2S3168-256GCTB5	IM2S3168-512GCTB5	IM2S3168-001TCTB5	IM2S3168-002TCTB5
-40°C to 85°C	IM2S3168-128GITB5	IM2S3168-256GITB5	IM2S3168-512GITB5	IM2S3168-001TITB5	IM2S3168-002TITB5

Specifications

Model	IM2S3168
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.)	520MB/s
Operating Temperature (Standard)	0ºC to 70ºC
Operating Temperature (Industrial)	-40ºC to 85ºC
Operating Voltage	3.3V
Power Consumption (Max)	1.58W
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



Unit: mm

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