

M.2 2280 SSD

IM2S3168



The ADATA IM2S3168 M.2 2280 SSD is equipped with 96-layer 3D TLC (BiCS4) 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+ SSSDTool 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

- 96-layer 3D TLC (BiCS4) NAND flash for higher capacities and efficiency
- 3K P/E cycle rating for excellent durability and reliability
- Low power consumption: 1.48W
- 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

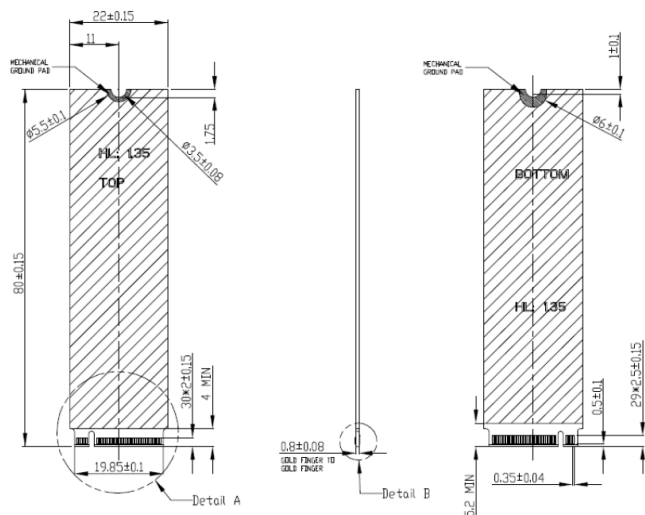
Ordering Information

| Operating Temp. | 64GB | 128GB | 256GB | 512GB | 1TB | 2TB |
|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0°C to 70°C | IM2S3168-064GCTB4 | IM2S3168-128GCTB4 | IM2S3168-256GCTB4 | IM2S3168-512GCTB4 | IM2S3168-001TCTB4 | IM2S3168-002TCTB4 |

Specifications

| Model | IM2S3168 |
|------------------------------------|---|
| Form Factor | M.2 2280 |
| Capacity | 64GB – 2TB |
| Interface | SATA III |
| Flash Type | 96L 3D TLC |
| Dimensions (L x W x H) | 80 x 22 x 3.6mm |
| Sequential Read (Max.) | 550MB/s |
| Sequential Write (Max.) | 520MB/s |
| Operating Temperature (Standard) | 0°C to 70°C |
| Operating Temperature (Industrial) | - |
| Operating Voltage | 3.3V |
| Power Consumption (Max) | 1.48W |
| 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 |

Diagram



Unit: mm

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