

M.2 2242 SSD

IM2P3014



The ADATA IM2P3014 PCIe Gen3x2 M.2 2242 SSDs are equipped with 3D TLC NAND flash, which feature 3K P/E cycles and can operate optimally in temperatures from -40°C to 85°C. For enhanced data security, the IM2P3014 comes with AES 256-bit encryption and meets the TCG OPAL standard. Its compact form factor and excellent heat dissipation capabilities make it ideally suited for all types of industrial systems, either as expanded storage or as a boot drive, especially systems with space constraints such as IPCs and servers.

Features

- Ultra-compact M.2 2242 form factor (B+M key)
- PCIe Gen3x2/ NVMe 1.3 support
- 3D NAND Flash for higher capacities, durability, and power efficiency
- 3K P/E cycle rating for excellent durability
- Wide-temperature operation: -40°C to 85°C
- Supports LDPC ECC, RAID Engine and SLC Cache
- AES 256-bit Encryption and TCG OPAL
- Ideal for automation, embedded devices, thin clients, IPCs, servers, in-vehicle, surveillance and gaming

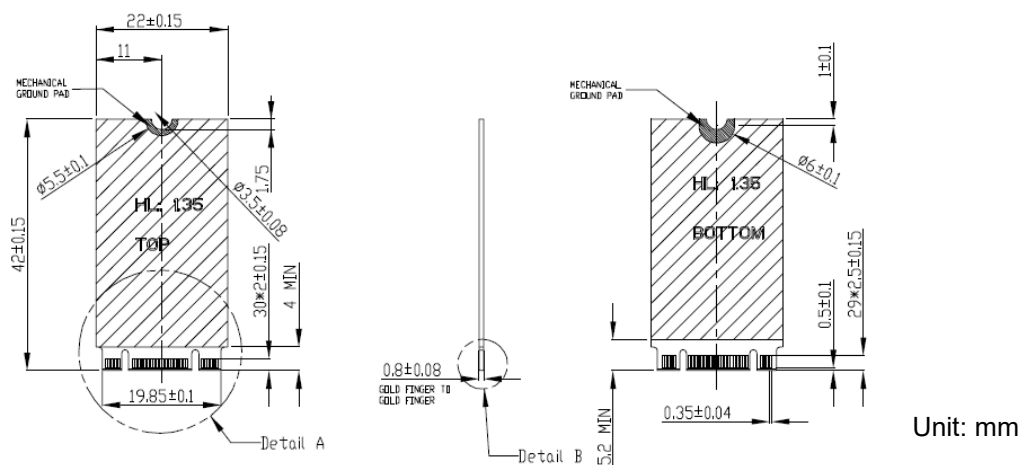
Ordering Information

Operating Temp.	64GB	128GB	256GB	512GB
0°C to 70°C	IM2P3014-064GDA	IM2P3014-128GDA	IM2P3014-256GDA	IM2P3014-512GDA
-40°C to 85°C	IM2P3014-064GPA	IM2P3014-128GPA	IM2P3014-256GPA	IM2P3014-512GPA

Specifications

Model	IM2P3014
Capacity	64GB – 512GB
Interface	PCIe Gen3x4
Flash Type	64L 3D TLC
Dimensions (L x W x H)	42 x 22 x 3.6mm
Sequential Read (Max.)	1600MB/s
Sequential Write (Max.)	1200MB/s
Operating Temperature (Standard)	0°C to 70°C
Operating Temperature (Industrial)	-40°C to 85°C
Operating Voltage	3.3V
Power Consumption (Max.)	1.6W
Shock Resistance	1500G/0.5ms
Operating Humidity	5%-95 RH, non-condensing
Vibration Resistance	20G (20-2000Hz)
Technologies	LDPC ECC, RAID Engine, SLC Cache, TRIM and NCQ Command, Wear Leveling, Thermal Throttling, S.M.A.R.T. Monitor AES 256-bit data encryption, End-to-end data path protection

Diagram



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