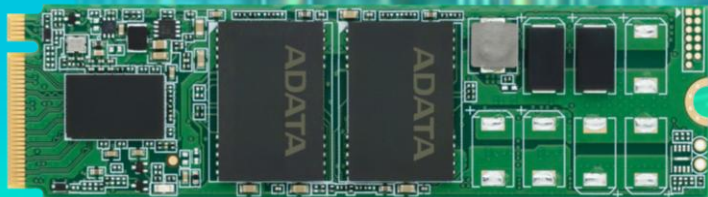


M.2 2280 SSD

IM2P42B8P



The ADATA IM2P42B8P PCIe Gen4x4 industrial-grade M.2 2280 SSD is NVMe 1.4 compliant, utilizing 112-layer 3D TLC NAND flash for excellent performance and high capacities, as well as a 3K P/E cycle rating for great durability. What's more, the IM2P42B8P supports Power Loss Protection (PLP) technology enhances product reliability, LDPC ECC (error correction code), RAID Engine, and End-to-End Data Path Protection technology for optimal data integrity. Thanks to these advantages, the IM2P42B8P is ideal for a wide range of industrial applications, including 5G, AI, networking, automation, server and surveillance.

Features

- PCIe Gen4x4 for excellent read and write performance
- NVMe 1.4 Support
- 112L 3D TLC NAND flash for higher capacities, efficiency, and durability
- 3K P/E cycle rating for great durability and reliability
- Supports Power Loss Protection (PLP)
- LDPC ECC, RAID Engine, and End-to-End Data Path Protection
- Complies with ESD (Electrostatic Discharge) IEC/EN 61000-4-2 level 4 standard
- Suitable for 5G, AI, networking, automation, server, and surveillance applications

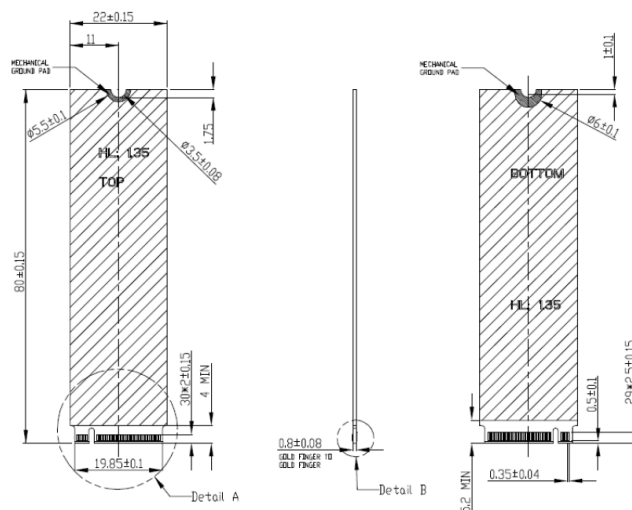
Ordering Information

Operating Temp.	512GB	1TB	2TB	4TB
0°C to 70°C	IM2P42B8P-512GCTM4	IM2P42B8P-001GCTM4	IM2P42BP-002GCTM4	IM2P42BP-004GCTM4

Specifications

Model	IM2P42B8P
Form Factor	M.2 2280
Capacity	512GB – 4TB
Interface	PCIe Gen4x4
Flash Type	112L 3D TLC
Dimensions (L x W x H)	80 x 22 x 3.6mm
Sequential Read (Max.)	7000MB/s
Sequential Write (Max.)	6500MB/s
Operating Temperature (Standard)	0°C to 70°C
Operating Temperature (Industrial)	N/A
Operating Voltage	3.3V
Power Consumption (Max)	4.8W
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 Command, Thermal Throttling, S.M.A.R.T. Monitor, End-to-end Data Path Protection, PL ESD Support (IEC/EN 61000-4-2 level 4)

Diagram



Unit: mm

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