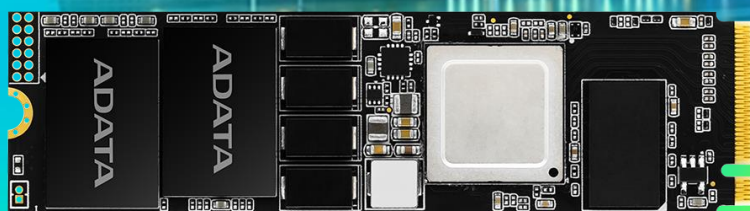


M.2 2280 SSD

IM2P41B8P



The ADATA IM2P41B8P NVMe 1.4 PCIe Gen4x4 M.2 2280 SSD employs 112-layer 3D TLC (BiCS5) NAND flash for high capacities and PCIe Gen4x4 interface for excellent performance. Its 3K P/E cycle rating ensures long-lasting durability while a DRAM Buffer offers improved IOPS and read/write speeds. What's more, they come with PLP (Power Loss Protection) to guard against data loss during power failures and polymer capacitors to prevent short circuiting. With support for LDPC (Low-Density Parity-Check) error correction code technology, the IM2P41B8P ensures data accuracy and integrity. The SSD comes in a range of capacities for different requirements. In addition, it supports AES 256-bit data encryption and TCG OPAL for improved data security. The IM2P41B8P is ideal for 5G, IoT, IPC, automation, transportation, and healthcare related applications.

Features

- PCIe Gen4x4 interface/ NVMe 1.4 compliant
- Power Loss Protection (PLP)
- Tantalum polymer capacitors with short circuit protection mechanism
- 3K P/E cycle rating for great durability and reliability
- DRAM Buffer
- AES 256-bit Data Encryption and TCG OPAL 2.0
- LDPC ECC error correction, RAID Engine, and End-to-End Data Path Protection

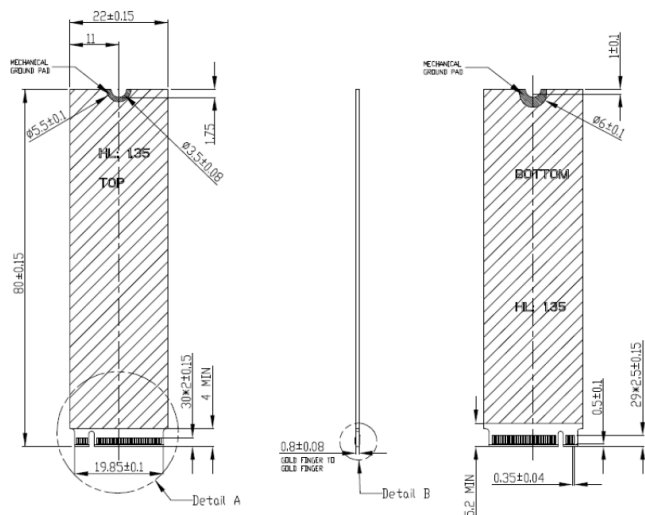
Ordering Information

Operating Temp.	256GB	512GB	1TB	2TB	4TB
0°C to 70°C	IM2P41B8P-256GCTB5	IM2P41B8P-512GCTB5	IM2P41B8P-001TCTB5	IM2P41B8P-002TCTB5	IM2P41B8P-004TCTB5

Specifications

Model	IM2P41B8P
Form Factor	M.2 2280
Capacity	256GB – 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)	-
Operating Voltage	3.3V
Power Consumption (Max.)	8.6W
Shock Resistance	1500G/0.5ms, Half Sine Wave
Operating Humidity	5%-95% RH, non-condensing
Vibration Resistance	20G (20-2000Hz)
Technologies	Power Loss Protection (PLP), AES 256-bit Data Encryption, TCG OPAL 2.0, LDPC ECC, RAID Engine, Wear Leveling, DRAM Buffer, SLC Cache, TRIM Command, Thermal Throttling, S.M.A.R.T. Monitor , End-to-end Data Path Protection

Diagram



Unit: mm

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