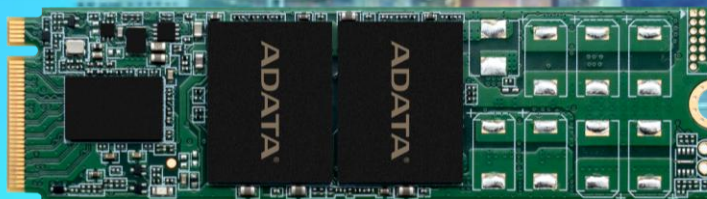


M.2 2280 SSD

IM2P42B8



The ADATA IM2P42B8 PCIe Gen4x4 industrial-grade M.2 2280 SSD is NVMe 1.4 compliant, utilizing 218-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 IM2P42B8 supports a Host Memory Buffer for improved random read/write performance, LDPC ECC (error correction code), RAID Engine, and End-to-End Data Path Protection technology for optimal data integrity. Furthermore, it supports AES 256-bit encryption and TCG OPAL for improved data security. Thanks to these advantages, the IM2P42B8 is ideal for a wide range of industrial applications, including 5G, AI, networking, automation, server and surveillance.

Features

- PCIe Gen4x4 interface/ NVMe 1.4 compliant
- 218-layer 3D TLC NAND flash for higher capacities and endurance
- 3K P/E cycle rating for great durability and reliability
- Supports Host Memory Buffer
- AES 256-bit Data Encryption and TCG OPAL
- LDPC ECC error correction, RAID Engine, and End-to-End Data Path Protection
- Suitable for 5G, AI, networking, automation, server, and surveillance applications

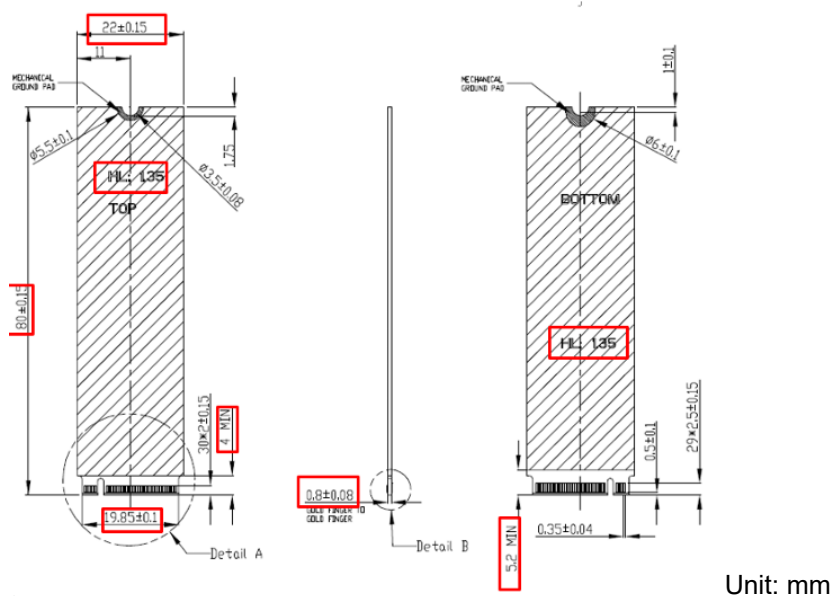
Ordering Information

Operating Temp.	256GB	512GB	1TB	2TB	4TB
0°C to 70°C	IM2P42B8-256GCTS8	IM2P42B8-512GCTS8	IM2P42B8-001TCTS8	IM2P42B8-002TCTS8	-
-40°C to 85°C	IM2P42B8-256GITK8	IM2P42B8-512GITK8	IM2P42B8-001TITK8	IM2P42B8-002TITK8	IM2P42B8-004TITK8

Specifications

Model	IM2P42B8
Capacity	256GB – 4TB
Interface	PCIe Gen4x4
Flash Type	218-layer 3D TLC
Form Factor	M.2 2280
Dimensions (L x W x H)	80 x 22 x 3.6mm
Sequential Read (Max.)	6,800MB/s
Sequential Write (Max.)	6,300MB/s
Operating Temperature (Standard)	0°C to 70°C
Operating Temperature (Industrial)	-40°C to 85°C
Operating Voltage	3.3V
Power Consumption (Max.)	3.3W
Shock Resistance	1500G/0.5ms
Operating Humidity	5%-95 RH, non-condensing
Vibration Resistance	20G (20-2000Hz)
Technologies	AES 256-bit Data Encryption, TCG OPAL 2.0, LDPC ECC, RAID Engine, Wear Leveling, SLC Cache, TRIM command, Thermal Throttling, S.M.A.R.T. Monitor, Host Memory Buffer, End-to-end Data Path Protection, ESD Support (IEC/EN 61000-4 level 2)

Diagram



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