M.2 2280 SSD

IM2P32A8

The ADATA IM2P32A8 PCIe Gen3x4 industrial-grade SSD is NVMe 1.4 compliant, features 112-layer 3D TLC NAND flash, provides excellent read and write performance and high capacities as well as a 3K P/E cycle rating for excellent durability. What's more, the IM2P32A8 supports Host Memory Buffer for improved random read and write performance, LDPC ECC (error correction code), RAID Engine, and End-to-End Data Path Protection technology for ideal data integrity. Furthermore, through ADATA's rigorous SSD verification process, the IM2P32A8 is guaranteed to meet the stringent requirements of industrial applications. With high compatibility and durability, the IM2P32A8 is ideal for a wide range of industrial applications such as automation, servers, data centers, networking, surveillance, and transportation.

Features

- PCIe Gen3x4 for excellent read and write performance
- Supports NVMe 1.4 and PCIe 3.1
- 112-layer 3D TLC NAND Flash for higher capacities, efficiency, and durability
- 3K P/E cycle rating for excellent durability
- Supports Host Memory Buffer
- LDPC ECC, RAID Engine, and End-to-End (E2E) Data Path Protection
- Complies with ESD (Electrostatic Discharge) IEC/EN 61000-4-2 level 4 standard
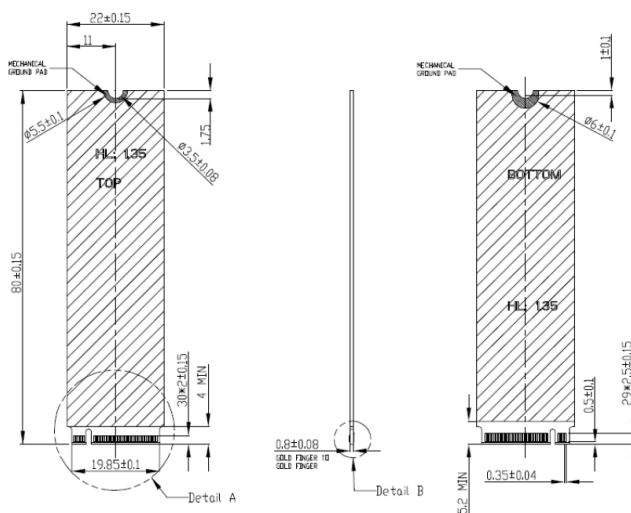- Suitable for automation, servers, data centers, networking, surveillance, and transportation

Ordering Information

Operating Temp.	128GB	256GB	512GB	1TB	2TB
0°C to 70°C	IM2P32A8-128GCTB5	IM2P32A8-256GCTB5	IM2P32A8-512GCTB5	IM2P32A8-001TCTB5	IM2P32A8-002TCTB5

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Specifications

Model	IM2P32A8
Form Factor	M.2 2280
Capacity	128GB – 2TB
Interface	PCIe Gen3x4
Flash Type	112L 3D TLC
Dimensions (L x W x H)	80 x 22 x 2.25mm
Sequential Read (Max.)	3300MB/s
Sequential Write (Max.)	2900MB/s
Operating Temperature (Standard)	0ºC to 70ºC
Operating Temperature (Industrial)	-40ºC to 85ºC
Operating Voltage	3.3V
Power Consumption (Max)	4.71W
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 Host Memory Buffer, ESD Support (IEC/EN 61000-4-2 level 4)

Diagram

Unit: mm

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