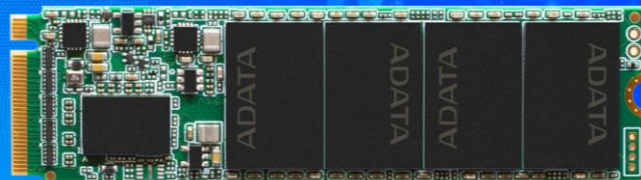


## M.2 2280 SSD

### IM2P32A8



The ADATA IM2P32A8 NVMe 1.3 PCIe Gen3x4 M.2 2280 SSD utilizes 112-layer 3D TLC NAND flash, providing superb R/W performance and 3K P/E cycle rating for excellent endurance. In addition, it supports RAID Engine and End-to-End (E2E) Data Path Protection for great data integrity and safety. To elevate the data security level, the IM2P32A8 supports AES 256-bit data encryption. Thanks to these product advantages and technologies, the IM2P32A8 SSD is ideal for IoT, 5G networking, AI, automation, IPCs, servers, data centers, as well as surveillance and transportation.

### Features

- Ultra-fast PCIe Gen3x4 interface for superior performance
- 3,000 P/E cycle ratings for improved endurance and reliability
- 112-layer 3D NAND Flash for higher capacity, durability and power efficiency
- High capacity up to 2TB
- Supports LDPC ECC, RAID Engine, and SLC Cache
- End-to-End (E2E) Data Path Protection
- Supports AES 256-bit encryption
- Supports HMB (Host Memory Buffer)

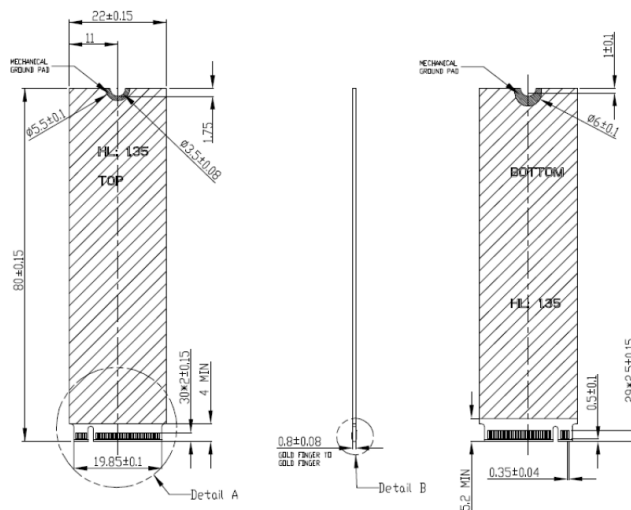
### Ordering Information

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

**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	0°C to 70°C
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, SLC Cache, E2E Data Path Protection, Thermal Throttling, S.M.A.R.T., Wear Leveling, AES 256-bit encryption, HMB (Host Memory Buffer)

**Diagram**



Unit: mm

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