

M.2 2280 SSD

IM2P33E8



The ADATA IM2P33E8 PCIe Gen3x4 M.2 2280 SSD is equipped with 3D TLC NAND flash for excellent read/write performance and high capacities. Its 3K P/E cycle rating ensures long-lasting durability while a DRAM Buffer offers improved IOPS and read and write speeds. What's more, with LDPC ECC error correction and RAID Engine, the IM2P33E8 ensures data accuracy and integrity. The SSD comes in a range of capacities for different requirements. Customers can also benefit from ADATA's proprietary A+ SDDTOOL software for easy management and real-time monitoring of ADATA SSDs. The IM2P33E8 is ideal for IoT, networking, servers, data centers, automation and IPC.

Features

- PCIe Gen3x4/ NVMe 1.3 support
- 3K P/E cycle rating for excellent durability and reliability
- Comes with DRAM Buffer
- Wide temperature support: -40°C to 85°C
- LDPC ECC error correction, RAID Engine, and SLC Cache
- Thermal Throttling automatically adjusts temperatures for prolonged product lifespan
- AES 256-bit data encryption and TCG OPAL 2.0 for greater data protection
- Suitable for IoT-related, networking, servers, data centers, automation, and IPC

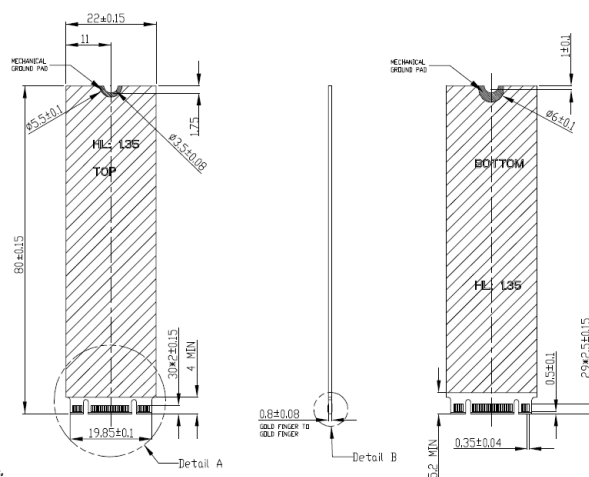
Ordering Information

Operating Temp.	256GB	512GB	1TB
0°C to 70°C	IM2P33E8-256GD	IM2P33E8-512GD	IM2P33E8-001TD
-40°C to 85°C	IM2P33E8-256GP	IM2P33E8-512GP	IM2P33E8-001TP

Specifications

Model	IM2P33E8
Form Factor	M.2 2280
Capacity	256GB – 1TB
Interface	PCIe Gen3x4
Flash Type	64L 3D TLC
Dimensions (L x W x H)	80 x 22 x 2.25mm
Sequential Read (Max.)	3400MB/s
Sequential Write (Max.)	2300MB/s
Operating Temperature (Standard)	0°C to 70°C
Operating Temperature (Industrial)	-40°C to 85°C
Operating Voltage	3.3V
Power Consumption (Max)	6W
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, DRAM Buffer, Thermal Throttling, S.M.A.R.T. Monitor, End-to-End Data Path Protection, AES 256-bit Data Encryption, TCG OPAL 2.0

Diagram



Unit: mm

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