ADATA®
INDUSTRIAL

M.2 2280 SSD

IM2P33F8

The ADATA IM2P33F8 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 LDPC ECC (Error Correcting Code), RAID Engine and End-to-End (E2E) data path protection technologies for great data integrity and safety. Thanks to these product advantages and technologies, the IM2P33F8 SSD is ideal for IoT, 5G networking, AI, automation, IPC, server, data center, as well as surveillance and transportation applications.

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
- Supports LDPC ECC, RAID Engine, and SLC Cache
- End-to-End (E2E) Data Path Protection
- Supports Host Memory Buffer (HMB) to enhance random read/write performance

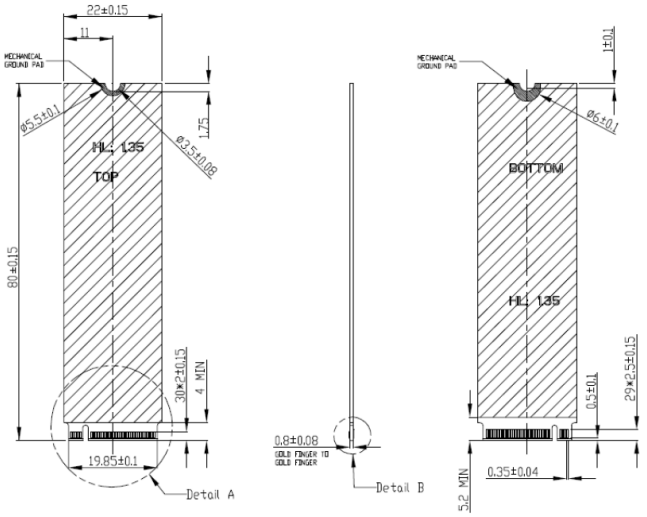
Ordering Information

Operating Temp.	128GB	256GB	512GB	1TB
0°C to 70°C	IM2P33F8-128GCTB5	IM2P33F8-256GCTB5	IM2P33F8-512GCTB5	IM2P33F8-001TCTB5

Specifications

Model	IM2P33F8
Form Factor	M.2 2280
Capacity	128GB – 1TB
Interface	PCIe Gen3x4
Flash Type	112L 3D TLC
Dimensions (L x W x H)	80 x 22 x 2.25mm
Sequential Read (Max.)	2100MB/s
Sequential Write (Max.)	1600MB/s
Operating Temperature (Standard)	0ºC to 70ºC
Operating Temperature (Industrial)	-
Operating Voltage	3.3V
Power Consumption (Max.)	3.8W
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. Monitor, Host Memory Buffer

Diagram



Unit: mm

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