

M.2 2280 SSD

IM2P41B8 (A⁺ SLC)



The ADATA IM2P41B8 PCIe Gen4x4 industrial-grade SSD employs 112-layer 3D TLC (A⁺ SLC) NAND flash for high capacities and PCIe Gen4x4 interface for excellent performance. Its 100K P/E cycle rating ensures long-lasting durability while a DRAM Buffer offers improved IOPS and read/write speeds. What's more, with LDPC ECC error correction and RAID Engine, the IM2P41B8 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⁺ SSSDTool software for easy management and real-time monitoring of ADATA SSDs. In addition, it supports AES 256-bit data encryption for improved data security. The IM2P41B8 is ideal for servers, data centers, networking, surveillance, and IoT-related applications.

Features

- PCIe Gen4x4 interface/ NVMe 1.4 compliant
- 112-layer 3D TLC (BiCS5) NAND Flash for higher capacity, durability and power efficiency
- ADATA's A⁺ SLC technology - 100K P/E cycles, greatly increasing product lifespan for greater durability.
- DRAM Buffer
- AES 256-bit Data Encryption
- LDPC ECC, RAID Engine, and End-to-End (E2E) Data Path Protection
- Ideal for 5G networking, IPC, automation, transportation, healthcare and surveillance

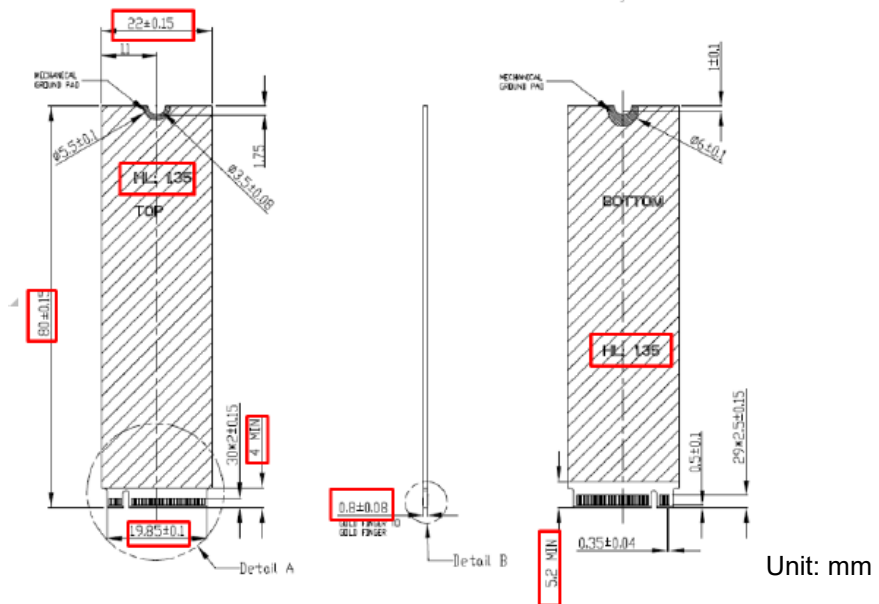
Ordering Information

Operating Temp.	80GB	160GB	320GB	640GB	1280GB
0°C to 70°C	IM2P41B8-80GCAB5	IM2P41B8-160GCAB5	IM2P41B8-320GCAB5	IM2P41B8-640GCAB5	IM2P41B8-1T28CAB5

Specifications

Model	IM2P41B8(A+ SLC)
Form Factor	M.2 2280
Capacity	80GB – 1.2TB
Interface	PCIe Gen4x4
Flash Type	112L 3D TLC
Dimensions (L x W x H)	80 x 22 x 3.6mm
Sequential Read (Max.)	7000MB/s
Sequential Write (Max.)	6400MB/s
Operating Temperature (Standard)	0°C to 70°C
Operating Temperature (Industrial)	-
Operating Voltage	3.3V
Power Consumption (Max.)	5W
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, DRAM Buffer, TRIM command, Thermal Throttling, S.M.A.R.T. Monitor, AES 256-bit Data Encryption, End-to-End Data Path Protection, ESD Support (IEC/EN 61000-4-2 level 4)

Dimensions



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