



## ADATA Industrial & Embedded Solutions

# M.2 SSD

The ADATA IM2P33E8 NVMe 1.3 PCIe Gen3x4 M.2 2280 solid state drive utilizes 3D NAND flash and provides superb R/W performance of up to 3500/3200MB per second. Its P/E cycle has been upgraded to 3K and can operate normally in harsh environment from -40°C to 85°C for excellent endurance, reliability, and stability. In addition, it supports RAID Engine and End-to-End (E2E) Data Protection for data integrity and safety. For enhanced data security, the IM2P33E8 comes with AES 256-bit encryption and meets TCG Opal standard. Not only is the IM2P33E8 suitable for notebooks, desktops, servers and data centers of all types, it can also serve as a boot drive for surveillance and transportation systems. To safeguard quality, compatibility, and reliability, ADATA uses a rigorous SSD validation process that encompasses performance testing and quality assurance to ensure its SSDs meet the exacting requirements of industrial applications.

### Key Features

- Ultra-fast PCIe Gen3x4 interface: R/W speed up to 3500/3200MB per second
- NVMe 1.3 support
- 3D NAND Flash for higher capacity, durability and power efficiency
- High capacity up to 2TB (\*2TB: commercial temp. only)
- RAID Engine and End-to-End Data Protection
- AES 256-bit encryption and TCG Opal



### Target Applications

Server, Data Center, Surveillance, Transportation, Notebooks, Desktops

30μ Golden Finger	Anti-Sulfur Resistor	Conformal Coating	Wide Temperature	EDS & EMI Safe	Shock & Vibration Resistant	Lifetime Monitoring (LTM)	Wear Leveling	Secure Erase	TRIM	Low Power Consumption
●	●	—	●	●	●	●	●	●	●	●

● Supported

## Specifications

Model	IM2P33E8
Interface	PCIe Gen3x4
Form Factor	M.2 2280
Dimensions (L x W x H)	80 x 22 x 2.25mm
Flash Type	3D TLC
Capacity	256GB / 512GB / 1TB / 2TB (*2TB: commercial temp. only)
Sequential Read (Max.)	3500MB/s
Sequential Write (Max.)	3200MB/s
Operating Temperature (Commercial)	0°C to 70°C
Operating Temperature (Industrial)	-40°C to 85°C
Operating Voltage	3.3V
Operating Humidity	5%-95% RH non-condensing
Power Consumption (Max.)	6W
MTBF (Est.)	>2,000,000 hours
Shock Resistance	1500G/0.5ms, Half Sine Wave
Vibration Resistance	20G (80-2000Hz)
Technologies	RAID Engine, End-to-End Data Protection, AES 256-bit Encryption, TCG Opal

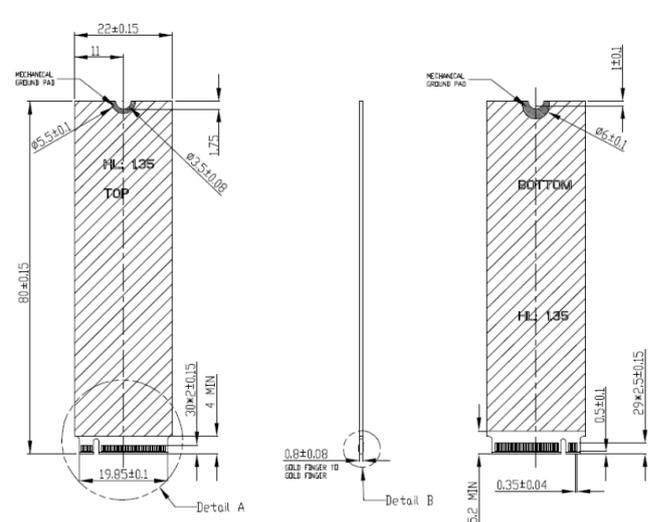
## Ordering Information

Capacity	Commercial (0°C to 70°C)	Industrial (-40°C to 85°C)
256GB	IM2P33E8-256GD	IM2P33E8-256GP
512GB	IM2P33E8-512GD	IM2P33E8-512GP
1TB	IM2P33E8-001TD	IM2P33E8-001TP
2TB*	IM2P33E8-002TD	—

\*2TB available for commercial models only



## Dimensions



ADATA Technology  
 2F, No. 258, Liancheng Rd., Zhonghe Dist.,  
 New Taipei City 235, Taiwan