

# M.2 SSD

ADATA IM2P3388 PCIe Gen3x4 M.2 2280 solid state drives utilize the super-fast PCIe Gen3x4 interface, reaching extremely high speed up to 2500/1100MB/s (read/write). NVMe 1.2 qualified, the IM2P3388 delivers superior random read/write performance and multi-tasking capabilities. It implements 3D NAND flash, which provides higher storage density up to 1TB, power efficiency and rugged reliability. With support of LDPC ECC technology, SLC Caching and DRAM cache buffer, the IM2P3388 ensures data integrity and maintains high performance. All IM2P3388 models are compliant with JEDEC specifications and feature a low-power design intended for industrial applications which leverages ADATA proprietary A+ Testing Methodology. This ensures the drives meet the exacting requirements of industrial applications. For SSD quality, compatibility, and reliability, ADATA developed its own SSD validation process, covering functionality testing and reliability assurance. Furthermore, value-added ADATA SSD Toolbox software provides intuitive SSD management, S.M.A.R.T. data integrity, and system optimization, helping enhance industrial systems.

## Key Features

- Ultra-fast PCIe Gen3x4 interface:  
R/W speed up to 2500/1100MB/s
- NVMe 1.2 certified
- 3D MLC NAND Flash
- 3-level ECC with 2KB LDPC Engine
- S.M.A.R.T. data integrity protection
- Large capacity up to 1TB
- Wide temperature support: -40°C to 90°C
- Supports TCG Opal 2.0



## Target Applications

Server, Data Center, Networking, Surveillance,  
Transportation, Personal Computing

	Wide Temperature	ESD & EMI Safe	Shock & Vibration Resistant	Lifetime Monitoring (LTM)	Temperature Sensor	Wear Leveling	Secure Erase	TRIM	Low Power Consumption
IM2P3388	●	●	●	●	●	●	●	●	●

● Supported



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## Specifications

Model	IM2P3388
Form Factor	M.2 2280
Flash Type	3D MLC
Operating Voltage	3.3V
Capacity	128GB-1TB
Sequential Read (Max)	Up to 2500MB/s
Sequential Write (Max)	Up to 1100MB/s
Data Transfer Mode	PCIe Gen3x4
Operating Temperature	Commercial: -10°C to 80°C Industrial: -40°C to 90°C
Operating Humidity	5%-95% RH non-condensing
Power Consumption (Max)	4.8W
MTBF (Est)	>2,000,000 hours
Vibration Resistance	20G (10-2000Hz)
Shock Resistance	1500G/0.5ms, Half Sine Wave
Dimensions (L x W x H)	80 x 22 x 3.5mm
Technologies	NVMe, LDPC, S.M.A.R.T., SLC Caching, Data Shaping

## Ordering Information

Capacity	Commercial -10°C to 80°C
128GB	IM2P3388-128GB
256GB	IM2P3388-256GB
512GB	IM2P3388-512GB
1TB	IM2P3388-001TB

Capacity	Industrial -40°C to 90°C
128GB	IM2P3388-128GC
256GB	IM2P3388-256GC
512GB	IM2P3388-512GC
1TB	IM2P3388-001TC

## Dimensions

