



## ADATA Industrial & Embedded Solutions

# M.2 SSD

The ADATA IM2P3014 PCIe Gen3x2 M.2 2242 solid state drive is an ideal replacement for mSATA hard drives. Equipped with 3D TLC flash and only the highest quality OG ICs, it offers excellent performance to handle large data volumes, all the while being incredibly energy efficient. For great durability, the IM2P3014 sports a 3K P/E cycle rating and can operate optimally in temperatures from -40°C to +85°C . For enhanced data security, the IM2P3014 comes with AES 256-bit encryption and meets the TCG Opal standard. Its compact form factor and excellent heat dissipation capabilities make it ideally suited for all types of industrial systems, either as expanded storage or as a boot drive, especially systems with space constraints such as IPCs and servers. 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-compact M.2 2242 form factor
- PCIe Gen3x2 interface for read/write up to 1600/1300MB/s
- Range of Capacities: 64GB-512GB
- Wide-Temperature Support: -40°C to 85°C
- P/E Cycle up to 3K for high durability and reliability
- Employs WD (SanDisk) OG IC
- AES 256-bit Encryption and TCG Opal(optional)



### Target Applications

Industrial automation, Embedded devices, Thin clients, Industrial PCs, Servers, In-vehicles, Surveillance, Gaming, etc.

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

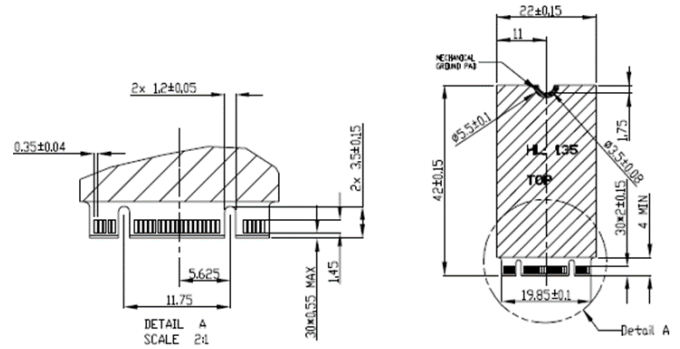
## Specifications

Model	IM2P3014
Interface	PCIe Gen3x2
Form Factor	M.2 2242
Dimensions (L x W x H)	42 x 22 x 3.5mm
Flash Type	3D TLC
Capacity	64GB / 128GB / 265GB / 512GB
Sequential Read (Max.)	1,600MB/s
Sequential Write (Max.)	1,300MB/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.)	1.6W
MTBF (Est.)	>2,000,000 hours
Shock Resistance	1500G/0.5ms, Half Sine Wave
Vibration Resistance	20G (80-2000Hz)
Technologies	AES 256-bit Encryption, TCG Opal (optional), S.M.A.R.T., NCQ and TRIM Command, Wear Leveling

## Ordering Information

Capacity	3D TLC	3D TLC
	Commercial (0°C to 70°C)	Industrial (-40°C to 85°C)
64GB	IM2P3014-064GD	IM2P3014-064GP
128GB	IM2P3014-128GD	IM2P3014-128GP
256GB	IM2P3014-256GD	IM2P3014-256GP
512GB	IM2P3014-512GD	IM2P3014-512GP

## Dimensions



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