

## **INDUSTRIAL**



# ADATA Industrial & Embedded Solutions M.2 SSD

The ADATA IM2S3168 M.2 2280 solid state drive utilizes 3D NAND flash to provide improved power efficiency and rugged reliability. It sports read/write speeds of up to 550/500MB per second, and with support for LDPC ECC technology, it can safeguard data integrity and maintain high performance. Support for multiple data protection technologies keep data safe, including SM4 algorithm, AES 256-bit encryption, TCG Opal 2.0, and E2E (End-to-End) data protection. ADATA's SSD validation process ensures quality, compatibility, and reliability with functionality testing and reliability assurance. Furthermore, ADATA SSD Toolbox software provides intuitive SSD management, S.M.A.R.T. monitoring, and system optimization to enhance industrial systems.

#### **Key Features**

- P/E cycle upgrade to 3K improved endurance and reliability
- 3D NAND Flash for higher capacity and durability
- Supports LDPC ECC Technology
- Supports SM4, AES 256-bit encryption, and TCG Opal
- Wide Temperature Support: -40°C to 85°C
- High capacity up to 1TB
- Supports DEVSLP for power efficiency



#### **Target Applications**

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



Supported

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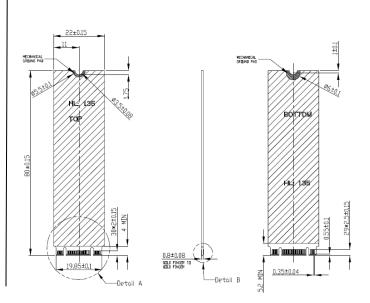
### **Specifications**

Model	IM2S3168	
Interface	SATA III 6.0Gbps	
Form Factor	M.2 2280	
Dimensions (L x W x H)	80 x 22 x 3.5mm	
Flash Type	3D TLC	
Capacity	32GB – 1TB	
Sequential Read (Max.)	550MB/s	
Sequential Write (Max.)	500MB/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.)	1.58W	
MTBF (Est)	>2,000,000 hours	
Shock Resistance	1500G/0.5ms, Half Sine Wave	
Vibration Resistance	20G (10-2000Hz)	
Technologies	DEVSLP, LDPC ECC, SLC Cache, Data Shaping,	
	E2E Data Protection, AES 256-bit Encryption, TCG Opal	

#### **Ordering Information**

Capacity	Commercial	Industrial	
	(0ºC to 70ºC)	(-40°C to 85°C)	
32GB	IM2S3168-032GD	IM2S3168-032GP	
64GB	IM2S3168-064GD	IM2S3168-064GP	
128TB	IM2S3168-128GD	IM2S3168-128GP	
256GB	IM2S3168-256GD	IM2S3168-256GP	
512GB	IM2S3168-512GD	IM2S3168-512GP	
1TB	IM2S3168-001TD	IM2S3168-001TP	

#### **Dimensions**



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