

INDUSTRIAL



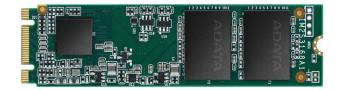
ADATA Industrial & Embedded Solutions

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

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

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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	64GB – 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)					
Tashualasiaa	DEVSLP, LDPC ECC, SLC Cache, Data Shaping,					
Technologies	E2E Data Protection, AES 256-bit Encryption, TCG Opal					

Ordering Information

Canacity	Commercial	Industrial			
Capacity	(0°C to 70°C)	(-40°C to 85°C)			
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

