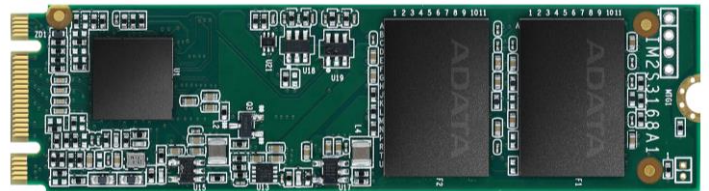ADATA Industrial & Enterprise Solutions

M.2 SSD

The ADATA IM2S3168 M.2 2280 solid state drive utilizes 2nd generation 3D NAND flash to provide improved power efficiency and rugged reliability. It sports read/write speeds of up to 540/510MB 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

● 3D NAND Flash for improved capacity, durability
   and power efficiency
● LDPC ECC technology support
● SM4, AES 256-bit encryption, and TCG Opal 2.0
   support
● E2E (End-to-End) data protection support
● Large capacity up to 1TB
● S.M.A.R.T., TRIM Command and NCQ support
● Low power consumption

Target Applications

Server, Data Center, Surveillance, Transportation,

Networking, PCs

	ESD & EMI Safe	Shock & Vibration Resistant	Lifetime Monitoring (LTM)	Temperature Sensor	Wear Leveling	Secure Erase	TRIM	Low Power Consumption
IM2S3168	●	●	●	●	●	●	●	●

● Supported

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 / 64GB / 128GB / 256GB / 512GB / 1TB
Sequential Read (Max)	Up to 540MB/s
Sequential Write (Max)	Up to 510MB/s
Operating Temperature	Commercial: 0°C to 70°C
Operating Humidity	5%~95% RH, non -condensing
Operating Voltage	3.3V
Power Consumption	1.85W
MTBF (Est)	>2,000,000 hours
Shock Resistance	1500G/0.5ms, Half Sine Wave
Vibration Resistance	20G (10-2000Hz)
Technologies	LDPC ECC, SM4 algorithm, AES 256-bit encryption, TCG Opal 2.0, End-to-End Data Protection, S.M.A.R.T.

Ordering Information

Capacity	Commercial 0°C to 70°C
32GB	IM2S3168-032GD
64GB	IM2S3168-064GD
128GB	IM2S3168-128GD
256GB	IM2S3168-256GD
512GB	IM2S3168-512GD
1TB	IM2S3168-001TD

Dimensions