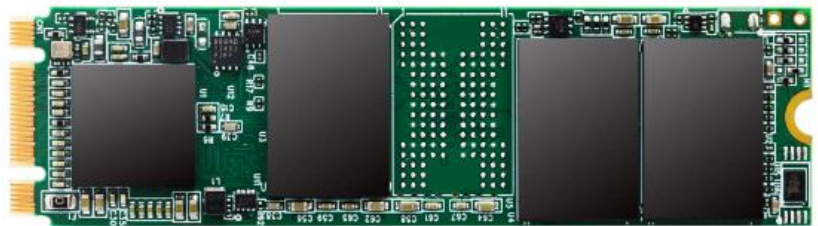ADATA Industrial & Enterprise Solutions

M.2 SSD

ADATA IM2S3148 M.2 2280 solid state drives utilize 3D NAND flash, providing higher storage density up to 512GB, power efficiency and rugged reliability. Its read/write speed is up to 560/530MB per second. All IM2S3148 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

● 3D NAND Flash for improved durability
● High R/W speed up to 560/530MB/s
● Large capacity up to 512GB
● Low power consumption: 2.31W
● S.M.A.R.T. data integrity protection

Target Applications

Server, Data Center, Networking, Surveillance,

Transportation, Personal Computing

	ESD & EMI Safe	Shock & Vibration Resistant	Lifetime Monitoring (LTM)	Temperature Sensor	Wear Leveling	Secure Erase	TRIM	Low Power Consumption
IM2S3148	●	●	●	●	●	●	●	●

● Supported

Specifications

Model	IM2S3148
Form Factor	M.2 2280
Flash Type	3D TLC
Operating Voltage	3.3V
Capacity	128GB-512GB
Sequential Read (Max)	Up to 560MB/s
Sequential Write (Max)	Up to 530MB/s
Data Transfer Mode	SATA III 6.0 Gbps
Operating Temperature	0°C to 70°C
Operating Humidity	5%-95% RH non-condensing
Power Consumption (Max)	2.31W
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
S.M.A.R.T.	Supported

Ordering Information

Capacity	0°C to 70°C
128GB	IM2S3148-128GD
256GB	IM2S3148-256GD
512GB	IM2S3148-512GD

Dimensions