

M.2 2280 SSD

IM2S3314



The ultra-compact IM2S3314 M.2 2242 solid state drive is optimized for industrial applications, especially those operating in extreme-temperature environments. With wide-temperature resistance (-40°C to 85°C) it offers excellent endurance and durability, even in harsh surroundings. What's more, ADATA's proprietary A+ SLC technology ensures optimal SSD performance, stability and a lifespan that's up to three times longer than many MLC drives. This all brings the IM2S3314 up to par with SLC drives while also providing cost savings of up to 80%. With S.M.A.R.T., TRIM Command, and NCQ technologies, the IM2S3314 maintains data integrity and improves overall storage and system performance. To safeguard quality, compatibility, and reliability, ADATA utilizes a rigorous SSD validation process that encompasses performance testing and quality assurance to ensure all its SSDs meet the exacting requirements of industrial applications

Features

- Ultra-compact M.2 2242 form factor
- Supports A+ SLC Mode: emulates SLC performance on MLC Flash
- Diverse capacities: (MLC) 32GB-256GB; (A+SLC) 16GB-128GB
- Wide-Temperature Support: -40°C to 85°C
- P/E Cycle up to 3K for high durability and reliability
- Employs WD (SanDisk) OG IC
- BCH ECC supported

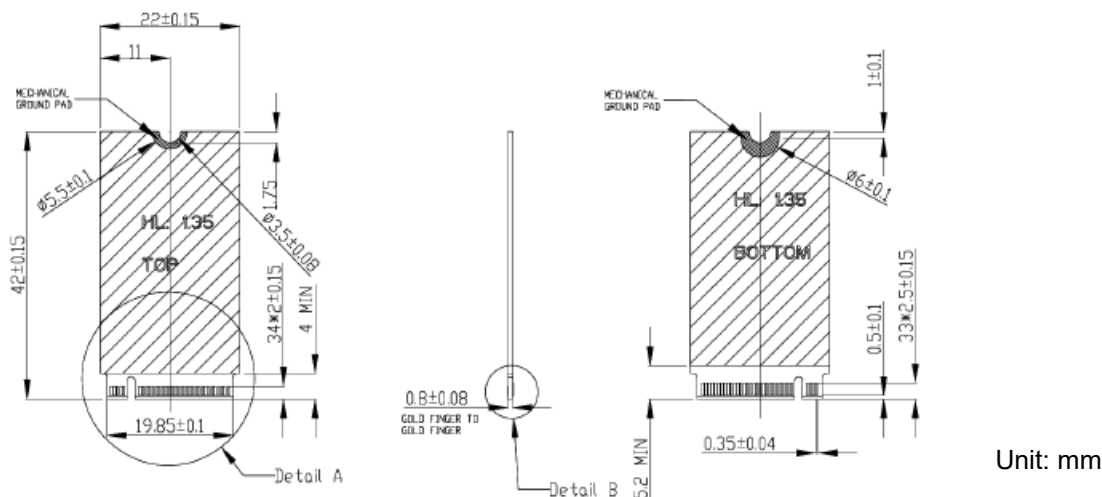
Ordering Information

Operating Temp.	16GB	32GB	64GB	128GB	256GB
0°C to 70°C (MLC)	-	IM2S3314-032GM	IM2S3314-064GM	IM2S3314-128GM	IM2S3314-256GM
-40°C to 85°C (MLC)	-	IM2S3314-032GT	IM2S3314-064GT	IM2S3314-128GT	IM2S3314-256GT
0°C to 70°C (A+ SLC)	IM2S3314-016GA	IM2S3314-032GA	IM2S3314-064GA	IM2S3314-128GA	-
-40°C to 85°C (A+ SLC)	IM2S3314-016GE	IM2S3314-032GE	IM2S3314-064GE	IM2S3314-128GE	-

Specifications

Model	IM2S3314
Form Factor	M.2 2242
Capacity	(MLC) 32GB / 64GB / 128GB / 256GB (A+ SLC) 16GB / 32GB / 64GB / 128GB
Interface	SATA III
Flash Type	MLC / A+ SLC
Dimensions (L x W x H)	80 x 22 x 2.25mm
Sequential Read (Max.)	540MB/s
Sequential Write (Max.)	450MB/s
Operating Temperature (Standard)	0°C to 70°C
Operating Temperature (Industrial)	-40°C to 85°C
Operating Voltage	3.3V
Power Consumption (Max.)	2.5W
Shock Resistance	1500G/0.5ms, Half Sine Wave
Operating Humidity	5%-95% RH, non-condensing
Vibration Resistance	20G (10-2000Hz)
Technologies	S.M.A.R.T., NCQ and TRIM Command, Wear Leveling

Diagram



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