

Datasheet

M.2 (S42) 3ME4 series

- SATA III solution for industrial field
- Exclusive L³ architecture
- DRAM-less, 100% data integrity
- Excellent random performance
- Supports TRIM/NCQ/SMART
- Built in iData Guard
- Compatible with M.2 2242-D2-B-M standard
- Designed with hardware LDPC ECC engine



Introduction

Innodisk M.2 (S42) 3ME4 is characterized by **L³ architecture with the latest SATA III** (6.0GHz) Marvell NAND controller. Innodisk's exclusive L³ architecture is L² architecture multiplied LDPC (Low Density Parity Check). L² (Long Life) architecture is a 4K mapping algorithm that reduces WAF and features a real-time wear leveling algorithm to provide high performance and prolong lifespan with exceptional reliability.

Innodisk M.2 (S42) 3ME4 is designed for industrial field, and supports several standard features, including TRIM, NCQ, and S.M.A.R.T. In addition, Innodisk's exclusive industrial-oriented firmware provides a flexible customization service, making it perfect for a variety of industrial applications.

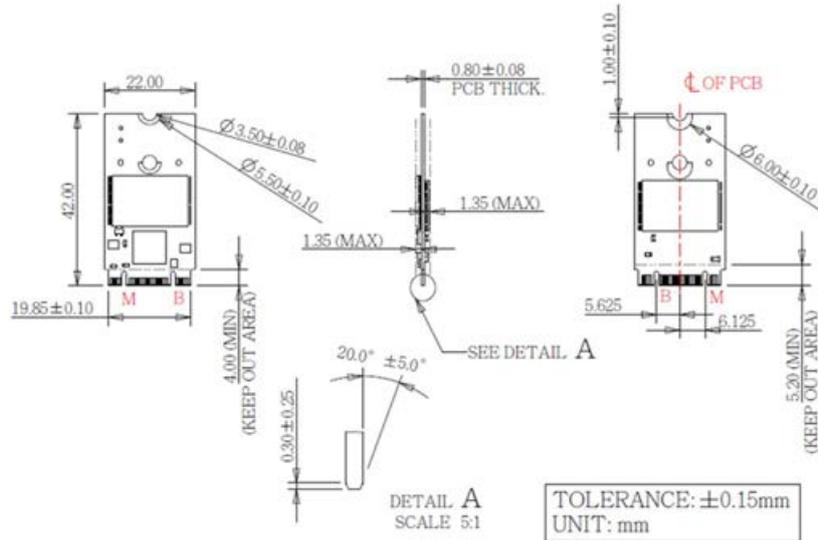
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Diagram

Contact us for more information about the M.2 (S42) 3ME4.

Innodisk is a service-driven provider of industrial embedded flash and DRAM storage products and technologies, with a focus on the cloud computing, industrial/embedded, and aerospace and defense industries.



Specifications

Interface	SATA III
Flash Type	MLC
P/E cycle	3,000
Capacity	8GB~256GB
Max. Channels	2
Sequential R/W (MB/sec, max.)	530/210
Max. Power Consumption	1.4W (3.3V x 422 mA)
Thermal Sensor	√
External DRAM buffer	-
H/W Write Protect	Optional
ATA Security	√
S.M.A.R.T.	√
Dimension (WxLxH)	22.0 X 42.0 X 3.2 mm
Environment	Vibration: 20G @ 7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

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Ordering Information

Operation Temp.	8GB	16GB	32GB	64GB	128GB	256GB
Standard Grade (0°C ~ +70°C)	DEM24-08GM41BC1SC	DEM24-16GM41BC1SC DEM24-16GM41BC1DC	DEM24-32GM41BC1DC	DEM24-64GM41BC1DC	DEM24-A28M41BC1DC	DEM24-B56M41BCADC
Industrial Grade (-40°C ~ +85°C)	DEM24-08GM41BW1SC	DEM24-16GM41BW1SC DEM24-16GM41BW1DC	DEM24-32GM41BW1DC	DEM24-64GM41BW1DC	DEM24-A28M41BW1DC	DEM24-B56M41BWADC

