

Datasheet

M.2 (S42) 3SE4 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



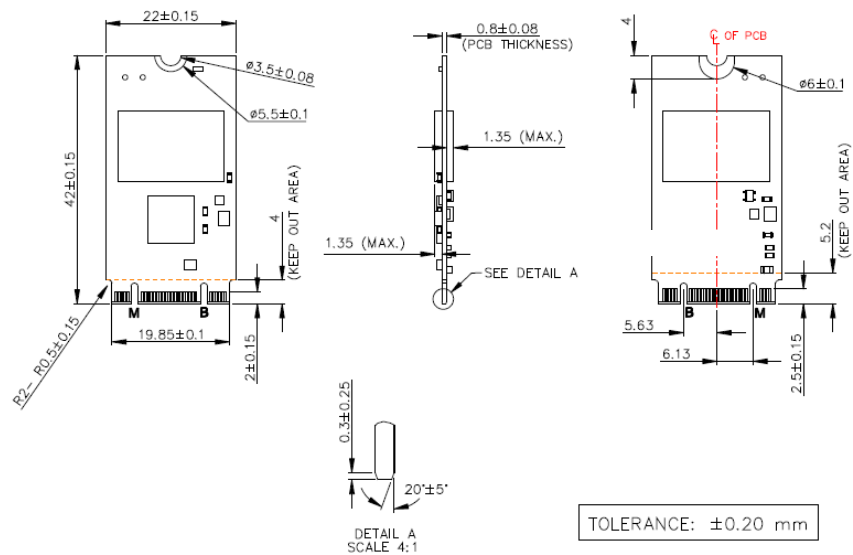
Introduction

Innodisk M.2 (S42) 3SE4 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) 3SE4 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



Specifications

Interface	SATA III
Flash Type	SLC
P/E cycle	60,000
Capacity	8GB~64GB
Max. Channels	2
Sequential R/W (MB/sec, max.)	520/360
Max. Power Consumption	0.6W (3.3V x 185 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 3.5 mm (max.)
Environment	Vibration: 20G @ 7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

Ordering Information

Operation Temp.	8GB	16GB	32GB	64GB
Standard Grade (0°C ~ +70°C)	DEM24-08GM41SCADB	DEM24-16GM41SCADB	DEM24-32GM41SCADB	DEM24-64GM41SCADB
Industrial Grade (-40°C ~ +85°C)	DEM24-08GM41SWADB	DEM24-16GM41SWADB	DEM24-32GM41SWADB	DEM24-64GM41SWADB

Contact us for more information
about the M.2 (S42) 3SE4.

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.

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