

Datasheet

# M.2 (S42) 3SE3 series

- SATA III solution for industrial field
- Innovative Firmware Algorithm
- DRAM-less, 100% data integrity
- Excellent random performance
- Wide Temperature: -40°C ~85 °C
- Supports TRIM/NCQ/SMART
- Built in iData Guard
- iSMART disk health monitoring
- Compatible with M.2 2242-D1-B-M



## Introduction

Innodisk M.2 (S42) 3SE3 is designed as the standard M.2 form factor with SATA interface, and supports SATA III standard (6.0Gb/s) with excellent performance. The form factor refers to the M.2(NGFF) specification which established by JEDEC. Regarding of mechanical interference, Innodisk M.2 (S42) 3SE3 absolutely replaces the traditional hard disk and makes personal computer, in any field, smaller and easier.

Innodisk M.2 (S42) 3SE3 effectively reduces the booting time of operation system and the power consumption is less than hard disk drive (HDD), and complies with ATA protocol, no additional drives are required, and can be configured as a boot device or data storage device.

Contact us for more information about the M2 (S42) 3SE3.

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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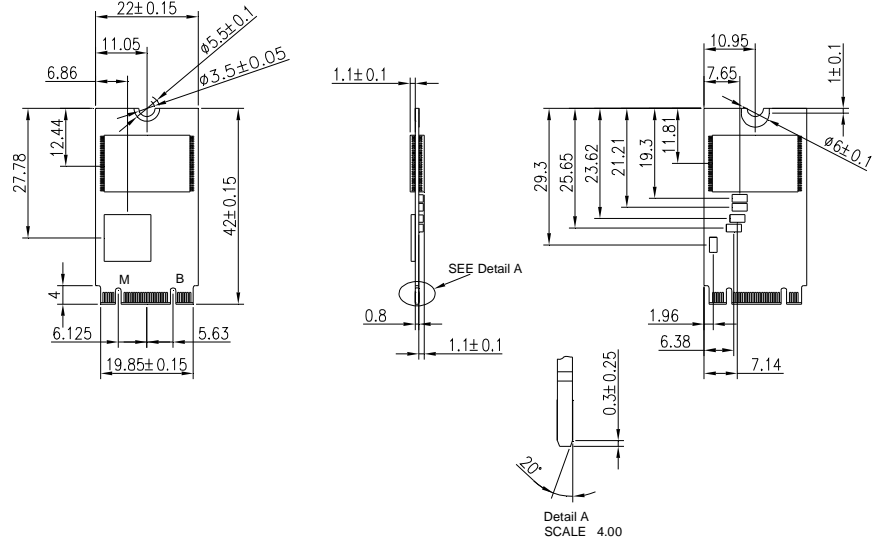
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## Diagram



## Specifications

Interface	SATA III
Flash Type	SLC
Capacity	4GB~32GB
Max. Channels	2
Sequential R/W (MB/sec, max.)	210 / 110
Max. Power Consumption	1.2 W (3.3V x 366 mA )
Thermal Sensor	ST- optional/ WT- default
External DRAM buffer	-
H/W Write Protect	-
ATA Security	√
S.M.A.R.T.	√
Dimension (WxLxH)	22.0 X 42.0 X 3.5 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

## Ordering Information

Operation Temp.	4GB	8GB	16GB	32GB
Standard Grade (0°C ~ +70°C)	DEM24-04GD09SCADB	DEM24-08GD09SCADB	DEM24-16GD09SCADB	DEM24-32GD09SCADB
Industrial Grade (-40°C ~ +85°C)	DEM24-04GD09SWADB	DEM24-08GD09SWADB	DEM24-16GD09SWADB	DEM24-32GD09SWADB

