

Datasheet

# M.2 (S42) 3TE7 series

- M.2 SATA III solution for industrial field
- Exclusive L<sup>3</sup> 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



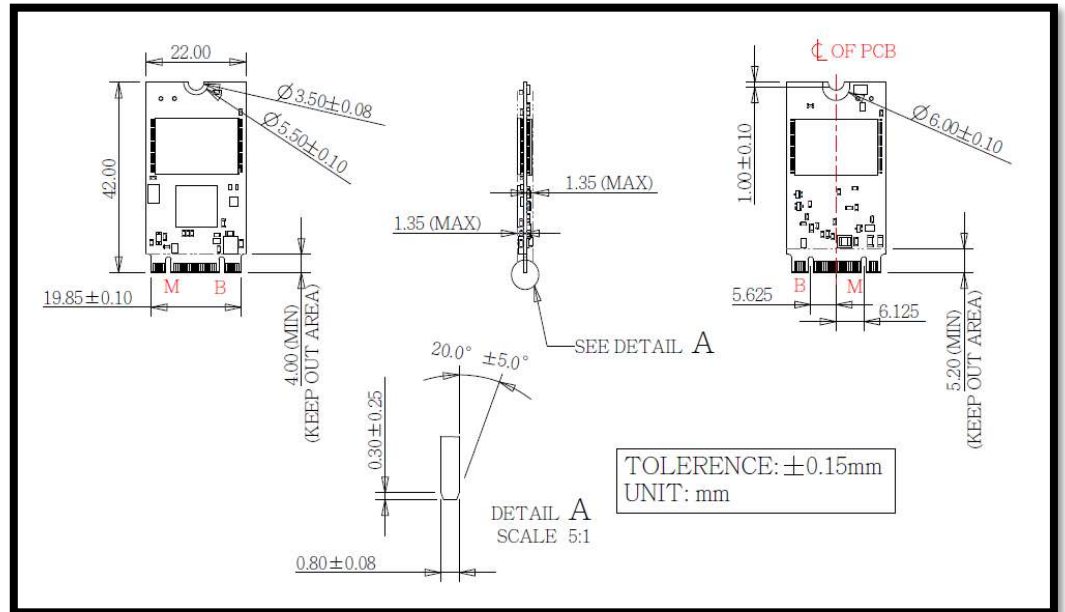
## Introduction

Innodisk M.2 (S42) 3TE7 SATA III Solid State Drive adopts latest SATA III NAND controller with Innodisk's exclusive L<sup>3</sup> FW architecture which incorporates powerful LDPC technology into Innodisk signature 4K mapping L<sup>2</sup> FW architecture. 3TE7 series have outstanding high IOPS, better data integrity and extended lifespan through implementation of Die-Raid protection. Built-in thermal sensor and iData Guard also ensure data integrity and reliability of 3TE7 for industrial applications.

Innodisk M.2 (S42) 3TE7 is designed for industrial field and supports several advanced features including TRIM, NCQ, and S.M.A.R.T. In addition, Innodisk's exclusive industrial-oriented firmware provides flexible customization service, making 3TE7 a perfect option for a variety of industrial applications.

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## Diagram



Contact us for more information about the M.2 (S42) 3TE7.

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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## Specifications

Interface	SATA III
Flash Type	3D TLC
P/E cycle	3,000
Capacity	32GB~1TB
Max. Channels	4
Sequential R/W (MB/sec, max.)	560/520
Max. Power Consumption	1.5W(470mA×3.3V)
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
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

## Ordering Information

Operation Temp.	32GB	64GB	128GB	256GB	512GB	1TB
Standard Grade (0°C ~ +70°C)	DEM24-32GDK1*C1SL	DEM24-64GDK1*C1SL	DEM24-A28DK1*C1DL	DEM24-B56DK1*C1DL	DEM24-C12DK1GCAQL	DEM24-01TDK1GCAQQ
Industrial Grade (-40°C ~ +85°C)	DEM24-32GDK1*W1SL	DEM24-64GDK1*W1SL	DEM24-A28DK1*W1DL	DEM24-B56DK1*W1DL	DEM24-C12DK1GWAQL	DEM24-01TDK1GWAQQ
Standard Grade (0°C ~ +70°C) 112 layers 3D TLC	NA	DEM24-64GDK1KCASL	DEM24-A28DK1KCADL	DEM24-B56DK1KCA&L	DEM24-C12DK1KCAQL	DEM24-01TDK1KCAQL

\*. E: 64 Layers 3D TLC; G: 96 Layers 3D TLC/ &. D=Dual channel; Q=4 channel

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