

Datasheet

M.2 (S42) 3TE7 series

- M.2 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) 3TE7 SATA III Solid State Drive adopts latest SATA III NAND controller with Innodisk's exclusive L³ FW architecture which incorporates powerful LDPC technology into Innodisk signature 4K mapping L² 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.

M.2 (S42) 3TE7 series 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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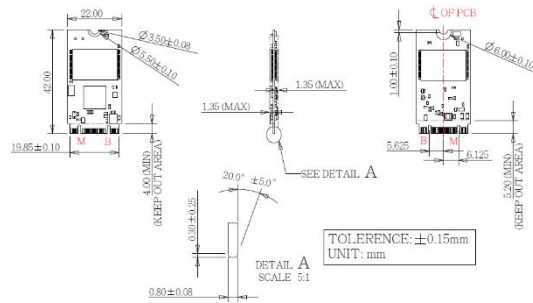
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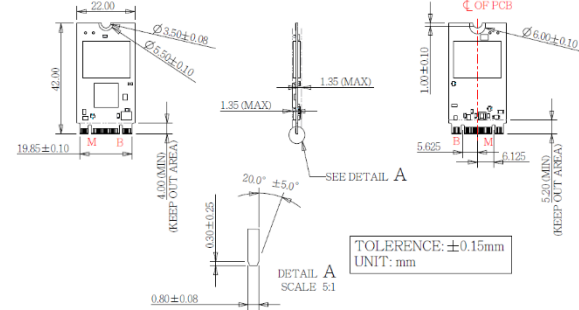
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TSOP



BGA



Specifications

Interface	SATA III
Flash Type	3D TLC
P/E cycle	3,000
Capacity	64GB~1TB
Max. Channels	4
Sequential R/W (MB/sec, max.)	560/520
Max. Power Consumption	1.5W(470mAx3.3V)
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: -40°C ~ +85°C MTBF: 3 million hours

Ordering Information

Operation Temp.	64GB	128GB	256GB	512GB	1TB
Standard Grade (0°C ~ +70°C)	DEM24-64GDK1%C*SL	DEM24-A28DK1%C*DL	DEM24-B56DK1%C*&L	DEM24-C12DK1%CAQL	DEM24-01TDK1%CAQ#
Industrial Grade (-40°C ~ +85°C)	DEM24-64GDK1GW1SL	DEM24-A28DK1GW1DL	DEM24-B56DK1GW1DL	DEM24-C12DK1GWAQL	DEM24-01TDK1GWAQQ

%. G: 96 Layers 3D TLC; K: 112 Layers 3D TLC/ *. PCB version control

&. D: 2 channels; Q: 4 channels/ #. L: Innodisk NAND; Q: Original NAND