Datasheet

M.2 (S42) 3TE7 series

- SATA III soultion for industrial field
- Exclusive L^3 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



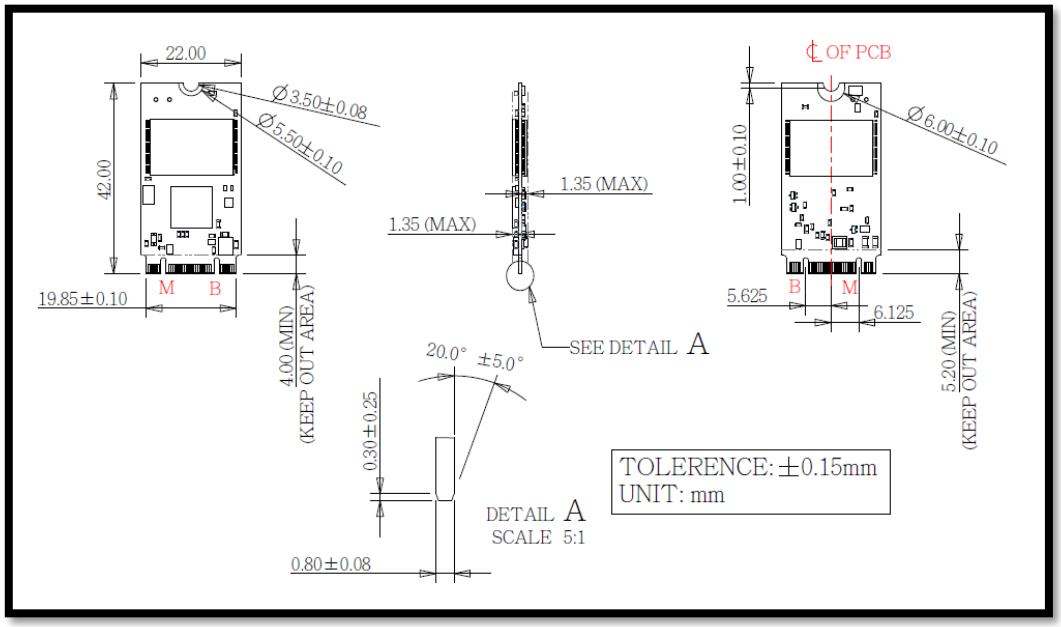
Introduction

Innodisk M.2 (S42) 3TE7 is SATA III 6.0 Gb/s flash based disk, which adopts latest SATA III NAND controller with Innodisk's exclusive L^3 FW architecture. The upgraded L^3 FW architecture, combining Innodik signature 4K mapping algorithm L^2 FW architecture with powerful LDPC technology, makes 3TE7 series have outstanding high IOPS, better data integrity and extended lifespan through reducing the bad block number happening. Built-in thermal sensor, and iData Guard ensure data integrity and reliability of 3TE7 for industrial applications.

Innodisk M.2 (S42) 3TE7 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.

M.2 (S42)
3TE7 series

Diagram



Specifications

Interface	SATA III
Flash Type	3D TLC
P/E cycle	3,000
Capacity	64GB~512GB
Max. Channels	4
Sequential R/W (MB/sec, max.)	560/520
Max. Power Consumption	1.7W(RMS)
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

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Operation Temp.	64GB	128GB	256GB	512GB
Standard Grade (0°C ~ +70°C)	DEM24-64GDK1GC1SL	DEM24-A28DK1GC1DL	DEM24-B56DK1GC1DL	DEM24-C12DK1GCAQL

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