

Datasheet

M.2 (S42)

3TEB series

- SATA III solution for industrial field
- High IOPS
- Low Power Consumption
- iSMART disk health monitoring
- iPower Guard for protecting unstable start up and shut down.
- iData Guard for abnormal power failure



Introduction

Innodisk M.2 (S42) 3TEB is SATA III 6.0 Gb/s flash based disk, which adopts latest SATA III NAND controller with Innodisk's exclusive L³ FW architecture. The upgraded L³ FW architecture, combining Innodisk signature 4K mapping algorithm L² FW architecture with powerful LDPC technology, makes 3TEB 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 M.2 (S42) 3TEB for industrial applications.

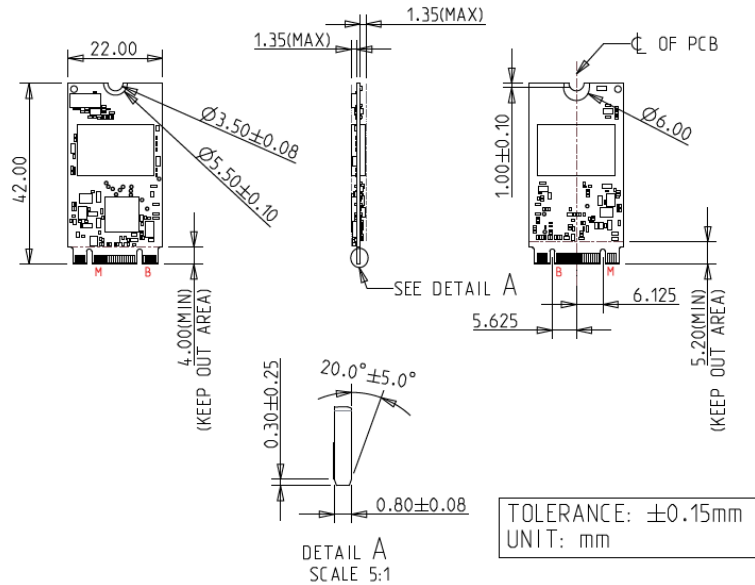
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3TEB series

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

Innodisk is a service-driven provider of industrial embedded flash and DRAM storage products and technologies, with a focus on the industrial/embedded, aerospace and defense, and cloud computing industries.

Diagram



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Specifications

Interface	SATA III
Flash Type	3D TLC
Capacity	128GB~1TB
Max. Channels	2
Sequential R/W (MB/sec, max.)*	550 / 480 MB/s
4KB Random (QD32) R/W (IOPS)	77,000/77,000
Max. Power Consumption	1.2W
Thermal Sensor	√
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: -40°C ~ +85°C MTBF: 3 million hours
* Performance based on CystalDiskMark 8.0.1 with file size 1000MB	

Ordering Information (Please refer to TPS for detail)

Operation Temp.	128GB	256GB	512GB	1TB
Standard Grade (0°C ~ +70°C)	DEM24-A28IC1KCADF	DEM24-B56IC1KCADF	DEM24-C12IC1KCADF	DEM24-01TIC1KCADF

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