

Datasheet

# mSATA mini

## 3TE7 series

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



## Introduction

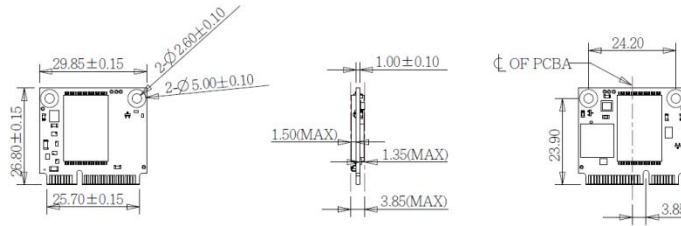
Innodisk mSATA mini 3TE7 is SATA III 6.0 Gb/s flash based disk, which adopts latest SATA III NAND controller with Innodisk's exclusive L<sup>3</sup> FW architecture. The upgraded L<sup>3</sup> FW architecture, combining Innodisk signature 4K mapping algorithm L<sup>2</sup> FW architecture with powerful 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 mSATA mini 3TE7 for industrial applications.

# mSATA mini 3TE7 series

## Diagram

Contact us for more information about the mSATA mini 3TE7.

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.



TOLERANCE:±0.15mm  
UNIT:mm

## Specifications

Interface	SATA III
Flash Type	3D TLC
Capacity	32GB~512GB
Max. Channels	4
Sequential R/W (MB/sec, max.)*	560 / 330 MB/s
4KB Random (QD32) R/W (IOPS)**	85,000/70,000
Max. Power Consumption	TBD
Thermal Sensor	√
External DRAM Buffer	-
H/W Write Protect	Optional
ATA Security	√
S.M.A.R.T.	√
DEVSLP Mode	√
Dimension (WxLxH)	29.85 X 26.8 X 3.85 mm
Environment	Vibration: 20G @ 7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours
* Performance based on CrystalDiskMark 5.1.2 with file size 1000MB	

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## Ordering Information (Please refer to TPS for detail)

Operation Temp.	32GB	64GB	128GB	256GB	512GB
Standard Grade (0°C ~ +70°C)	DEM SM-32GDK1EC1SF	DEM SM-64GDK1EC1DF	DEM SM-A28DK1EC1DF	DEM SM-B56DK1EC1DF	DEM SM-C12DK1ECAQF
Industrial Grade (-40°C ~ +85°C)	DEM SM-32GDK1EW1SF	DEM SM-64GDK1EW1DF	DEM SM-A28DK1EW1DF	DEM SM-B56DK1EW1DF	DEM SM-C12DK1EWAQF