Datasheet

mSATA mini 3TE7 series

- mSATA SATA III solution for industrial field
- High IOPS
- iSMART disk health monitoring
- AES-256 encryption
- iPower Guard for protecting unstable start up and shut down.
- iData Guard for abnormal power failure
- DEVSLP supported



Introduction

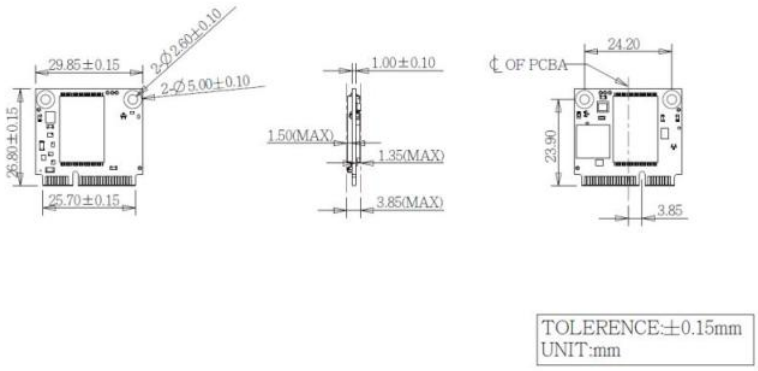
Innodisk mSATA mini 3TE7 is SATA III 6.0 Gb/s flash based disk, which adopts latest SATA III NAND controller with Innodisk's exclusive L^3 FW architecture. The upgraded L^3 FW architecture, combining Innodik signature 4K mapping algorithm L^2 FW architecture with powerful LDPC technology, makes 3TE7 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 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.



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
AES encryption	√
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 CystalDiskMark 5.1.2 with file size 1000MB

Ordering Information (Please refer to TPS for detail)

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

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