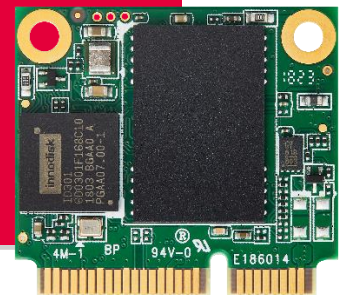


Datasheet

mSATA mini 3IE7 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



Introduction

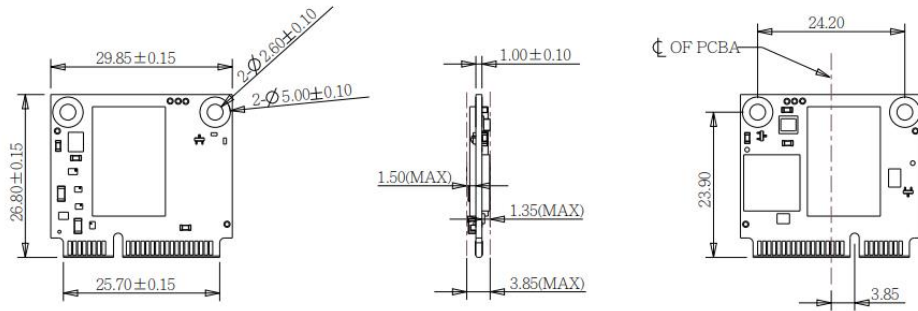
Innodisk mSATA mini 3IE7 is SATA III 6.0 Gb/s flash based disk, which adopts latest SATA III NAND controller with Innodisk's exclusive L³ FW architecture. The upgraded L³ FW architecture, combining Innodisk signature 4K mapping algorithm L² FW architecture with powerful LDPC technology, makes 3IE7 series 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 3IE7 for industrial applications.

mSATA mini 3IE7 series

Diagram

Contact us for more information about the mSATA mini 3IE7.

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: ± 0.15 mm
UNIT: mm

Specifications

Interface	SATA III
Flash Type	3D TLC
Capacity	20GB~320GB
Max. Channels	4
Sequential R/W (MB/sec, max.)*	550 / 490 MB/s
4KB Random (QD32) R/W (IOPS)**	88,000/76,000
Max. Power Consumption	1.7W
Thermal Sensor	✓
External DRAM Buffer	-
H/W Write Protect	-
ATA Security	✓
S.M.A.R.T.	✓
Dimension (W x L x H)	29.85 X 26.8 X 3.85 mm
Environment	Vibration: 20G @ 7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -40°C ~ +85°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.	20GB	40GB	80GB	160GB	320GB
Standard Grade (0°C ~ +70°C)	DHMSM-20GDK1KCA&%	DHMSM-40GDK1KCA&%	DHMSM-80GDK1KCA&%	DHMSM-A60DK1KCA&%	DHMSM-D2GDK1KCA&%
Industrial Grade (-40°C ~ +85°C)	DHMSM-20GDK1KWA&%	DHMSM-40GDK1KWA&%	DHMSM-80GDK1KWA&%	DHMSM-A60DK1KWA&%	DHMSM-D2GDK1KWA&%

&. S= single channel; D= Dual channel; Q=4 channel

%. L= innodisk NAND; F= Kioxia NAND

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