

Datasheet

# mSATA

## 3TG6-P series

- SATA III solution for industrial field
- High IOPS
- iSMART disk health monitoring
- AES-256 encryption
- End to end data path protection
- iData Guard for abnormal power failure
- DEVSLP supported



### Introduction

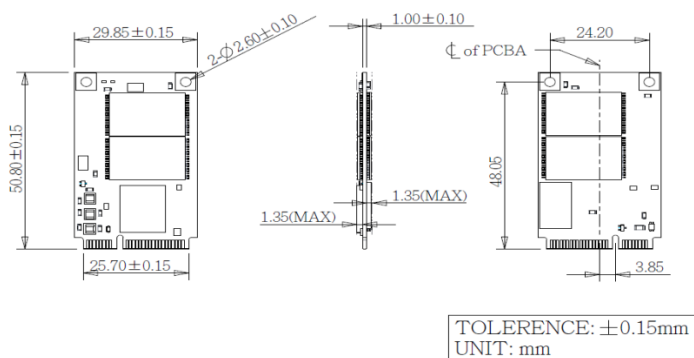
Innodisk mSATA 3TG6-P is SATA III 6Gb/s solid state disk, which delivers excellent performance, especially in random data transfer rate, and which offers reliability making it the ideal solution for a variety of applications, including embedded system, industrial computing, and enterprise field. 3TG6-P mSATA not only performs unmatched performance, but also designed with Innodisk owned technical knowhow to ensure the data integrity and highest levels of reliability.

# mSATA 3TG6-P series

Contact us for more information  
about the mSATA 3TG6-P

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.

## Drawing



## Specifications

Interface	SATA III
Flash Type	3D TLC
Capacity	128GB~1TB
Max. Channels	4
Sequential R/W (MB/sec, max.)*	560 / 520 MB/s
4KB Random (QD32) R/W (IOPS)*	67,000/67,000
Max. Power Consumption	TBD
Thermal Sensor	✓
External DRAM Buffer	✓
AES encryption	✓
ATA Security	✓
S.M.A.R.T.	✓
DEVSLP Mode	✓ (min. power consumption 3mW)
Dimension (WxLxH)	29.85 X 50.80 X 3.7 mm
Environment	Vibration: 20G @ 7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours
* Sequential performance based on CystalDiskMark 5.1.2 with file size 1000MB	

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are subject to change without  
prior notice.

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

Operation Temp.	128GB	256GB	512GB	1TB
Standard Grade (0°C ~ +70°C)	DGMSR-A28M71EC1QF	DGMSR-B56M71EC1QF	DGMSR-C12M71EC1QF	DGMSR-01TM71ECAQF
Industrial Grade (-40°C ~ +85°C)	DGMSR-A28M71EW1QF	DGMSR-B56M71EW1QF	DGMSR-C12M71EW1QF	DGMSR-01TM71EWAQF

Operation Temp.	128GB	256GB	512GB	1TB
Standard Grade (0°C ~ +70°C)	DGMSR-A28M71EC1QL*	DGMSR-B56M71EC1QL*	DGMSR-C12M71ECAQL*	TBD

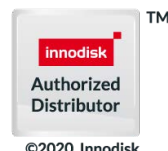
\*with 96 Layers Innodisk 3D TLC NAND flash

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