

Datasheet

mSATA

3MG5-P series

- SATA III solution for industrial field
- High IOPS with 3D NAND solution
- L³ architecture extends lifespan
- RAID Protection
- iData Guard for abnormal power failure
- Built-in thermal sensor
- iCell technology for data protection (optional)
- iSMART disk health monitoring



Introduction

3MG5-P is Innodisk's first product series supported 3D NAND flash. Innodisk mSATA 3MG5-P is characterized by L³ architecture and RAID engine with the latest SATA III (6.0GHz) ID204 controller. Innodisk's exclusive L³ architecture is L² architecture multiplied LDPC (Low Density Parity Check). L² (Long Life) architecture is a 4K mapping algorithm that reduces WAF and features a real-time wear leveling algorithm to provide high performance and prolong lifespan. Innodisk mSATA 3MG5-P is equipped RAID engine to offer additional level of data protection for exceptional reliability.

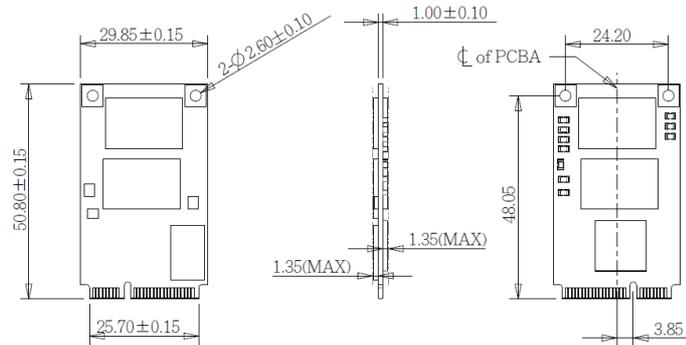
mSATA SSD

3MG5-P series

Drawing

Contact us for more information
about the mSATA 3MG5-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.



TOLERANCE: ±0.15mm
UNIT: mm

Specifications

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20171213

Interface	SATA III
Flash Type	3D MLC
Flash P/E Cycle Limit	3,000
Capacity	128GB/256GB
Max. Channels	4
Sequential R/W (MB/sec, max.)	560/520
Max. Power Consumption	2.2 W (3.3V x 674 mA)
Thermal Sensor	Supported
External DRAM Buffer	Supported
iCell	NA
ATA Security	Supported
S.M.A.R.T.	Supported
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

Ordering Information

Operation Temp.	128GB	256GB
Standard Grade (0°C ~ +70°C)	DGMSR- A28D21CCAQG	DGMSR- B56D21CCAQG

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