

Datasheet

M.2 (S80) 3MG2-P AES series

- SATA III solution for industrial field
- Hardware-based AES 256bits key
- Compliant with TCG OPAL 2.0
- Complaint with IEEE 1667
- Intelligent error recovery system
- Excellent data transfer speed
- iSMART disk health monitoring



Introduction

Innodisk M.2 (S80) 3MG2-P is designed as the standard M.2 form factor with SATA interface, and supports SATA III standard (6.0Gb/s) with excellent performance. The form factor refers to the M.2(NGFF) specification which established by JEDEC. Regarding of mechanical interference, Innodisk M.2 (S80) 3MG2-P absolutely replaces the traditional hard disk and makes personal computer, in any field, smaller and easier.

Innodisk M.2 (S80) 3MG2-P effectively reduces the booting time of operation system and the power consumption is less than hard disk drive (HDD), and complies with ATA protocol, no additional drives are required, and can be configured as a boot device or data storage device. Innodisk M.2 (S80) 3MG2-P is designed with AES engine, which is built-in the controller. When controller receives the data package from host, AES engine encrypts the data package and saves the encrypted data into NAND flash. Thus, unauthorized personal has no access to decrypt the data in NAND flash.

M.2 (S80) 3MG2-P series

**Contact us for more information
about the M2 (S80) 3MG2-P.**

Innodisk is a service-driven provider of industrial embedded flash and DRAM storage products and technologies, with a focus on the cloud computing, industrial/embedded, and aerospace and defense industries.

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Specifications

Interface	SATA III
Flash Type	MLC
P/E cycle	3,000
Capacity	32GB~1TB
Max. Channels	4
Sequential R/W (MB/sec, max.)	520 / 450
Max. Power Consumption	4.6 W (3.3V x 1.4 A)
Thermal Sensor	√
External DRAM buffer	√
H/W Write Protect	Optional, 1TB:N/A
ATA Security	√
S.M.A.R.T.	√
Dimension (WxLxH)	22.0 X 80.0 X 3.5 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3 million hours

Ordering Information

Operation Temp.	32GB	64GB	128GB	256GB	512GB	1TB
Standard Grade (0°C ~ +70°C)	DGM28- 32GD82BCBDC	DGM28- 64GD82BCBQC	DGM28- A28D82BCBQC	DGM28- B56D82BCBQC	DGM28- C12D82BCBQC	DGM28- 01TD82BCBQC
Industrial Grade (-40°C ~ +85°C)	DGM28- 32GD82BWBDC	DGM28- 64GD82BWBQC	DGM28- A28D82BWBQC	DGM28- B56D82BWBQC	DGM28- C12D82BWBQC	DGM28- 01TD82BWBQC



Diagram

