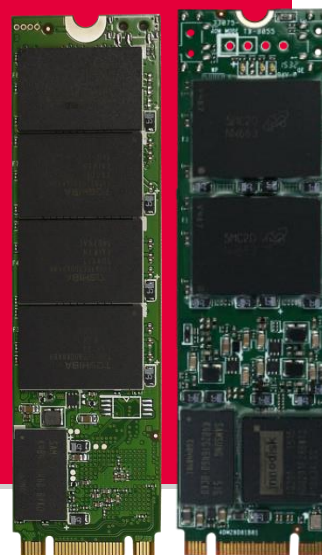


Datasheet

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.

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 |

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are subject to change without
prior notice.

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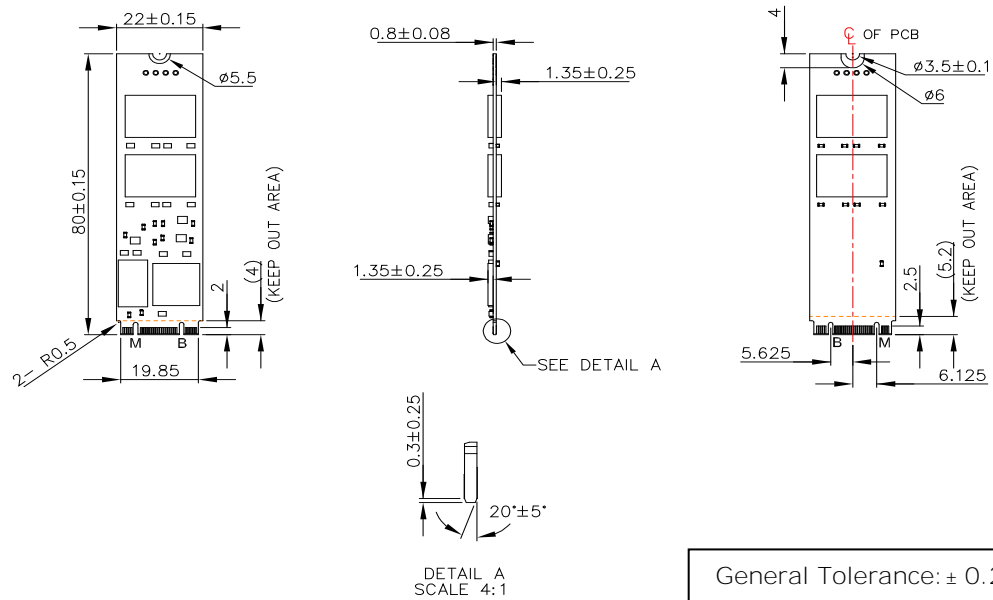
Ordering Information

| 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

152 ball BGA type



132 ball BGA type

