

Datasheet

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

- SATA III solution for industrial field
- iSMART disk health monitoring
- Intelligent error recovery system
- Excellent data transfer speed
- Zero mechanical interference
- Anti-vibration mechanical design



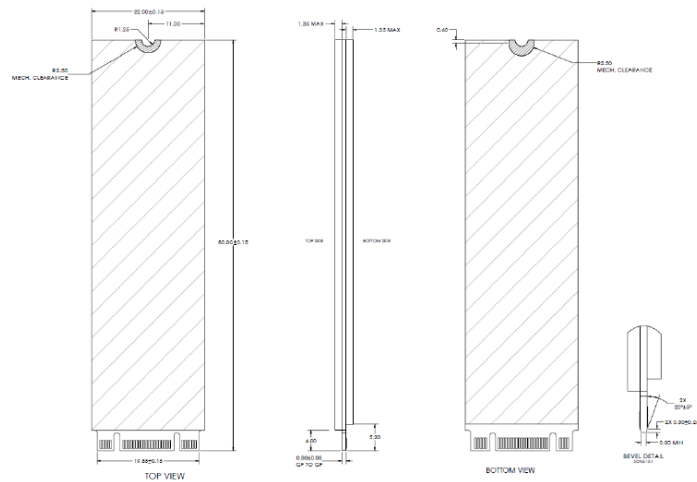
## Introduction

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

## Diagram

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                      | 16GB~512GB                                                                                                      |
| Max. Channels                 | 4                                                                                                               |
| Sequential R/W (MB/sec, max.) | 520 / 450                                                                                                       |
| Max. Power Consumption        | 3.07 W (3.3V x 0.93 A )                                                                                         |
| Thermal Sensor                | √                                                                                                               |
| External DRAM buffer          | √                                                                                                               |
| H/W Write Protect             | -                                                                                                               |
| ATA Security                  | √                                                                                                               |
| S.M.A.R.T.                    | √                                                                                                               |
| Dimension (WxLxH)             | 22.0 X 80.0 X 3.5 mm                                                                                            |
| Environment                   | Vibration: 20G @7~2000Hz<br>Shock: 1500G @ 0.5ms<br>Storage Temperature: -55°C ~ +95°C<br>MTBF: 3 million hours |

## Ordering Information

| Operation Temp.                     | 16GB              | 32GB              | 64GB              | 128GB                                 | 256GB                                 | 512GB                                 |
|-------------------------------------|-------------------|-------------------|-------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Standard Grade<br>(0°C ~ +70°C)     | DGM28-16GD81SCASN | DGM28-32GD81SCADN | DGM28-64GD81SCAQN | DGM28-A28D81SCAQ<br>DGM28-A28D81SCAQN | DGM28-B56D81SCAQ<br>DGM28-B56D81SCAQN | DGM28-C12D81SCAQ<br>DGM28-C12D81SCAQN |
| Industrial Grade<br>(-40°C ~ +85°C) | DGM28-16GD81SWASN | DGM28-32GD81SWADN | DGM28-64GD81SWAQN | DGM28-A28D81SWAQ<br>DGM28-A28D81SWAQN | DGM28-B56D81SWAQ<br>DGM28-B56D81SWAQN | DGM28-C12D81SCAQ<br>DGM28-C12D81SWAQN |

N: Micron MLC / C: Toshiba MLC