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Datasheet

# M.2 (P80) 4IG2-P series

- PCIe Gen. 4x4, NVMe SSD
- Innodisk 3D TLC NAND
- Support iSLC technology
- iPowerguard
- iDataguard
- Thermal throttling Management
- Support End-to-End Data Path Protection(ETEP)



## Introduction

Innodisk M.2 (P80) 4IG2-P is iSLC series which is designed to outdo the endurance, performance and reliability of 3D TLC-based solutions. Through the use of flash management algorithms, iSLC improves SSD endurance up to 100,000 times. In addition, iSLC improves the performance of solid state drives, with similar write performance of SLC-based solutions.

M.2 (P80) 4IG2-P supports PCIe Gen. 4x4, and it is compliant with NVMe 1.4 providing excellent performance. M.2 (P80) 4IG2-P with heat-spreading design dissipate heat generating from IC making SSD perform more steady. M.2 (P80) 4IG2-P have Die RAID protection to reduce bad blocks happening and optimize data integrity.

Innodisk M.2 (P80) 4IG2-P provides ultra-speed and high IOPS and offers maximum capacity up to 1.28TB, making the SSD optimal for server and heavy data workload applications.

# M.2 (P80) 4IG2-P series

Contact us for more information  
about the M.2 (P80) 4IG2-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.

## Diagram (ST)

### Headquarters (Taiwan)

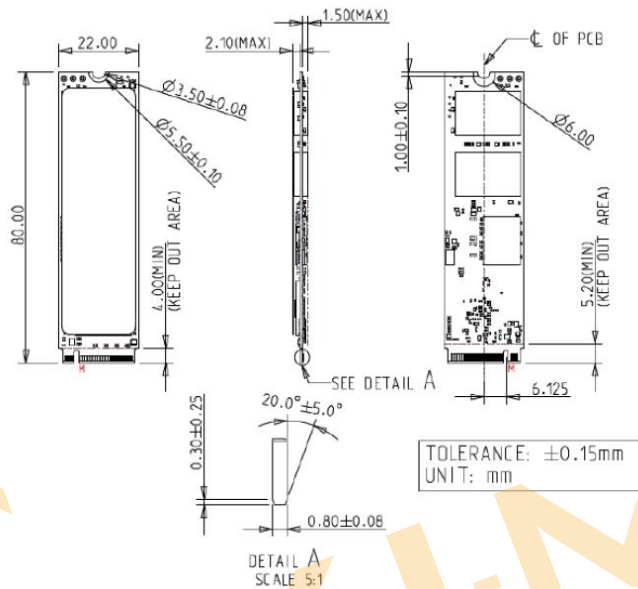
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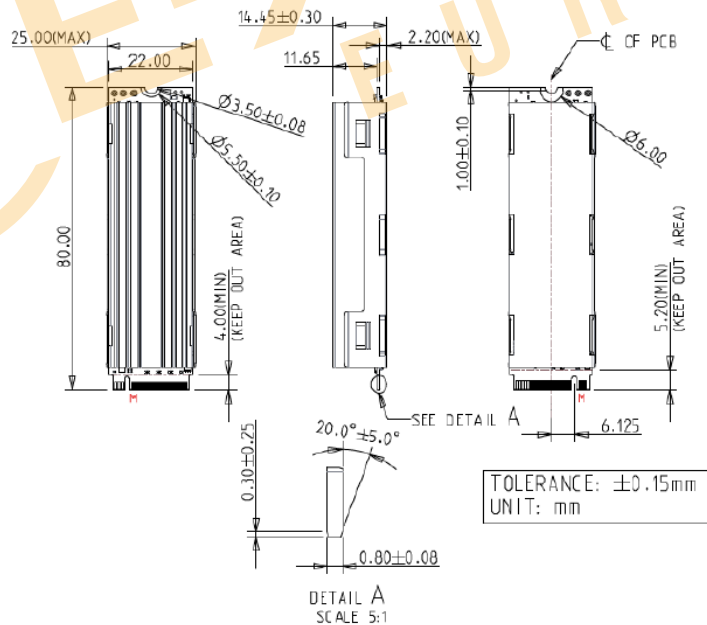
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## Diagram (WT)



## Specifications

**Contact us for more information about the M.2 (P80) 41G2-P.**

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|                               |                                                                                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Interface                     | PCIe Gen. 4x4                                                                                                                          |
| Flash Type                    | iSLC(3D TLC)                                                                                                                           |
| P/E cycle                     | 100,000                                                                                                                                |
| Capacity                      | 160GB~1.28TB                                                                                                                           |
| Max. Channels                 | 8                                                                                                                                      |
| Sequential R/W (MB/sec, max.) | 7,100/5,200                                                                                                                            |
| Max. Power Consumption        | 10.2W                                                                                                                                  |
| Thermal Sensor                | ✓                                                                                                                                      |
| External DRAM buffer          | ✓                                                                                                                                      |
| H/W Write Protect             | NA                                                                                                                                     |
| Dimension (WxLxH)             | ST with heat-spreading copper layer: 22.0 X 80.0 X 4.3 mm<br>WT with heatsink: 25 X 80.0 X 14.45 mm<br>(Pure M.2: 22.0 X 80.0 X 3.8mm) |
| Environment                   | Vibration: 20G @7~2000Hz<br>Shock: 1500G @ 0.5ms<br>Storage Temperature: -40°C ~ +85°C<br>MTBF: 3 million hours                        |

## Ordering Information

| Operation Temp.                     | 160GB              | 320GB              | 640GB              | 1.28TB             |
|-------------------------------------|--------------------|--------------------|--------------------|--------------------|
| Standard Grade<br>(0°C ~ +70°C)     | DHM28-A60DP1KCCEL  | DHM28-D2GDP1KCCEL  | DHM28-F4GDP1KCCEL  | DHM28-1T2DP1KCCEQ  |
| Industrial Grade<br>(-40°C ~ +85°C) | DHM28-A60DP1KWCELH | DHM28-D2GDP1KWCELH | DHM28-F4GDP1KWCELH | DHM28-1T2DP1KWCEQH |