

Datasheet

M.2 (P80) 4IG2-P series

- PCIe Gen. 4x4, NVMe SSD
- Kioxia 3D TLC NAND
- Support iSLC technology
- iPowerguard
- iDataguard
- Thermal throttling Management
- Support End-to-End Data Path Protection (ETEP)
- 256-bit AES hardware-based encryption
- Support TCG Opal Function (Optional)



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 30,000 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.

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20240306

Diagram (ST)

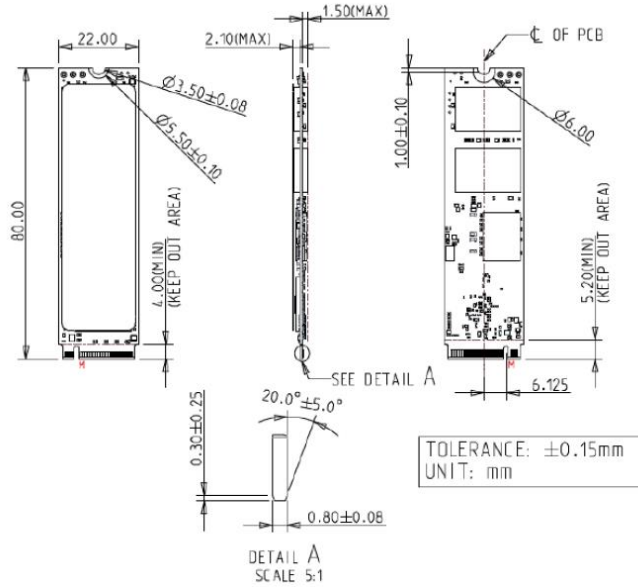
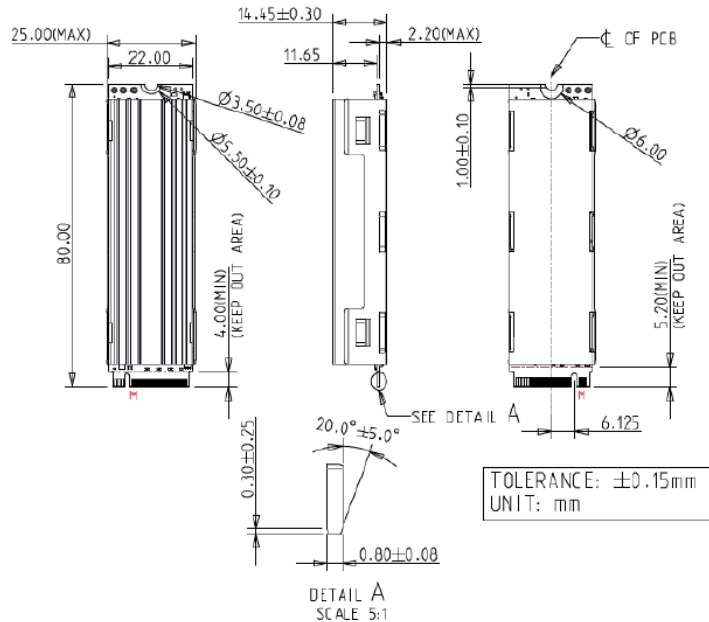


Diagram (WT)



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	30,000
Capacity	160GB~1.28TB
Max. Channels	8
Sequential R/W (MB/sec, max.)	6,950/4,700
Max. Power Consumption	8.5W
Thermal Sensor	√
External DRAM buffer	√
TCG Opal	√ (Optional)
H/W Write Protect	NA
Dimension (WxLxH)	ST with heat-spreading copper layer: 22.0 X 80.0 X 4.3 mm WT with heatsink: 25 X 80.0 X 14.45 mm (Pure M.2: 22.0 X 80.0 X 3.8mm)
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -40°C ~ +85°C MTBF: 3 million hours

Ordering Information

Operation Temp.	160GB	320GB	640GB	1.28TB
Standard Grade (0°C ~ +70°C)	DHM28-A60DP1KCCEF DHM28-A60DP2KCCEF	DHM28-D2GDP1KCCEF DHM28-D2GDP2KCCEF	DHM28-F4GDP1KCCEF DHM28-F4GDP2KCCEF	DHM28-1T2DP1KCCEF DHM28-1T2DP2KCCEF
Industrial Grade (-40°C ~ +85°C)	DHM28-A60DP1KWCFH DHM28-A60DP2KWCFH	DHM28-D2GDP1KWCFH DHM28-D2GDP2KWCFH	DHM28-F4GDP1KWCFH DHM28-F4GDP2KWCFH	DHM28-1T2DP1KWCFH DHM28-1T2DP2KWCFH

For TCG OPAL function, the PN Code 10th~12th will be DP2.