

Datasheet

M.2 (P80) 4IG2-P series

- PCIe Gen. 4x4, NVMe SSD
- Innodisk 3D TLC NAND
- Ultra 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. With 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)

5F., No. 237, Sec. 1, Datong Rd., Xizhi
Dist., New Taipei City 221, Taiwan
Tel: +886-2-7703-3000
Email: sales@innodisk.com

Branch Offices:

USA

usasales@innodisk.com

+1-510-770-9421

Europe

eusales@innodisk.com

+31-40-3045-400

Japan

jpsales@innodisk.com

+81-3-6667-0161

China

sales_cn@innodisk.com

+86-755-21673689

www.innodisk.com

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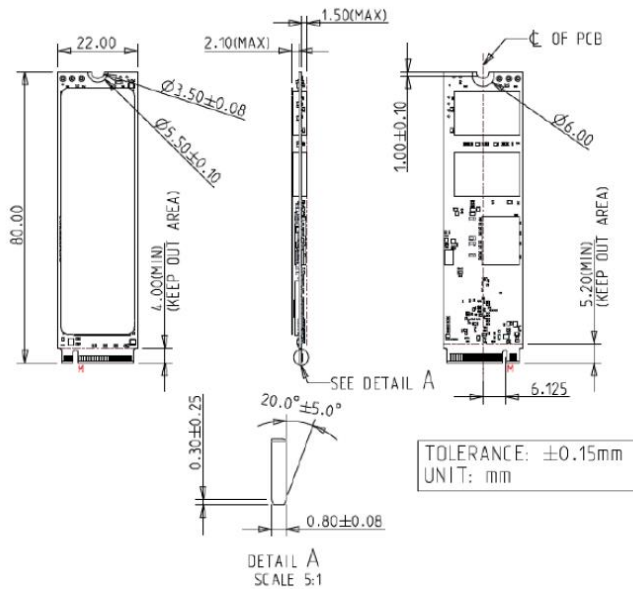
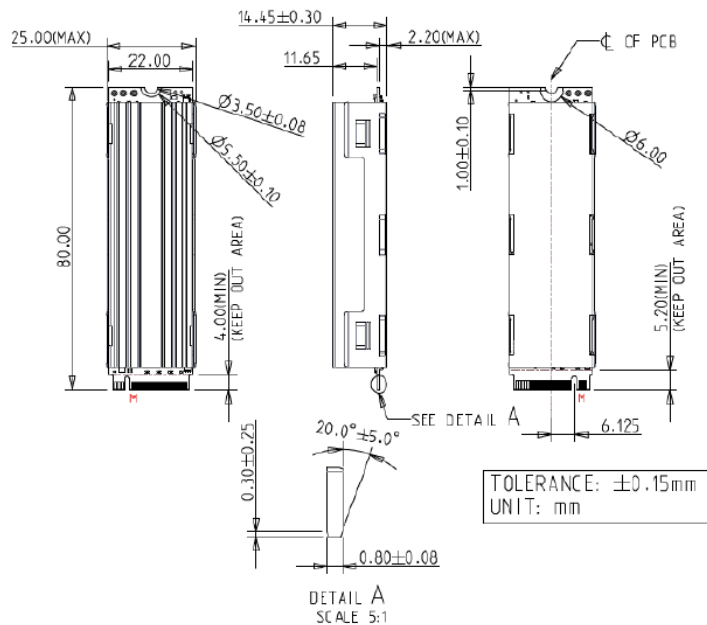


Diagram (WT)



Specifications

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

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Email: sales@innodisk.com

Branch Offices:

USA
usasales@innodisk.com
+1-510-770-9421
Europe
eusales@innodisk.com
+31-40-3045-400
Japan
jpsales@innodisk.com
+81-3-6667-0161
China
sales_cn@innodisk.com
+86-755-21673689
www.innodisk.com

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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.)	6,900/4,350
Max. Power Consumption	10.2W
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-A60DP1KCCEL DHM28-A60DP2KCCEL	DHM28-D2GDP1KCCEL DHM28-D2GDP2KCCEL	DHM28-F4GDP1KCCEL DHM28-F4GDP2KCCEL	DHM28-1T2DP1KCCEQ DHM28-1T2DP2KCCEQ
Industrial Grade (-40°C ~ +85°C)	DHM28-A60DP1KWCELH DHM28-A60DP2KWCELH	DHM28-D2GDP1KWCELH DHM28-D2GDP2KWCELH	DHM28-F4GDP1KWCELH DHM28-F4GDP2KWCELH	DHM28-1T2DP1KWCEQH DHM28-1T2DP2KWCEQH

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

