

Datasheet

M.2 (P80) 4TG2-P series

- PCIe Gen. 4x4, NVMe 1.4
- Excellent data transfer speed
- Stable sustained performance
- Heat-spreading design
- LDPC ECC engine supported.
- Thermal Throttling management
- 256-bit AES hardware-based encryption
- iCell technology
- Support TCG Opal Function (Optional)



Introduction

Innodisk M.2 (P80) 4TG2-P is an NVM Express SSD designed as the standard M.2 form factor with PCIe interface and 3D TLC NAND Flash. M.2 (P80) 4TG2-P supports PCIe Gen. 4x4, and it is compliant with NVMe 1.4 providing excellent performance. M.2 (P80) 4TG2-P with heat-spreading design dissipate heat generating from IC making SSD perform more steady. M.2 (P80) 4TG2-P has Die RAID protection to reduce bad blocks happening and optimize data integrity.

Innodisk M.2 (P80) 4TG2-P provides ultra-speed and high IOPS and offers maximum capacity up to 2TB, making the SSD optimal for server and heavy data workload applications.

Innodisk M.2 (P80) 4TG2-P is designed with AES engine, which is a built in 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 (P80) 4TG2-P series

Contact us for more information
about the M.2 (P80) 4TG2-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.

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

© 2022 Innodisk Corporation.
All right reserved. Specifications are
subject to change without
prior notice.

20240123

Diagram (ST)

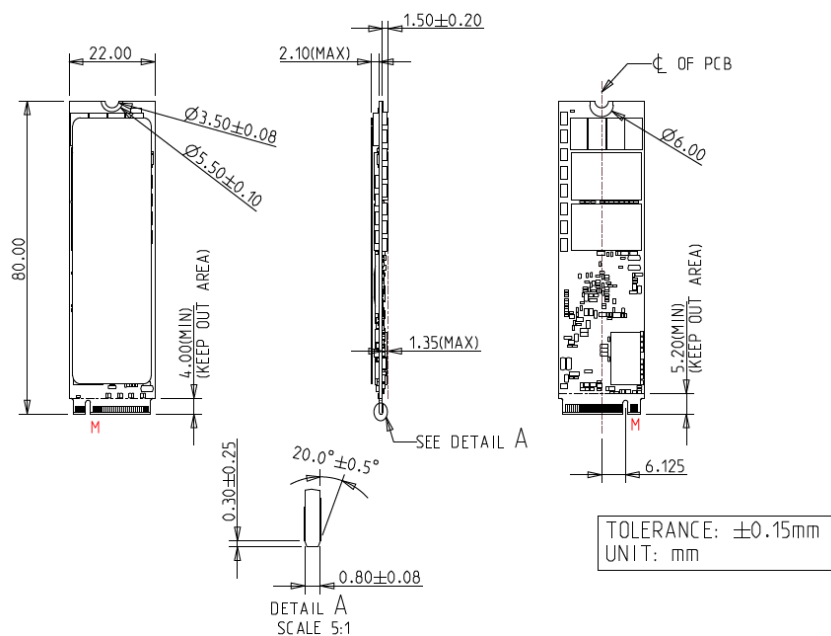
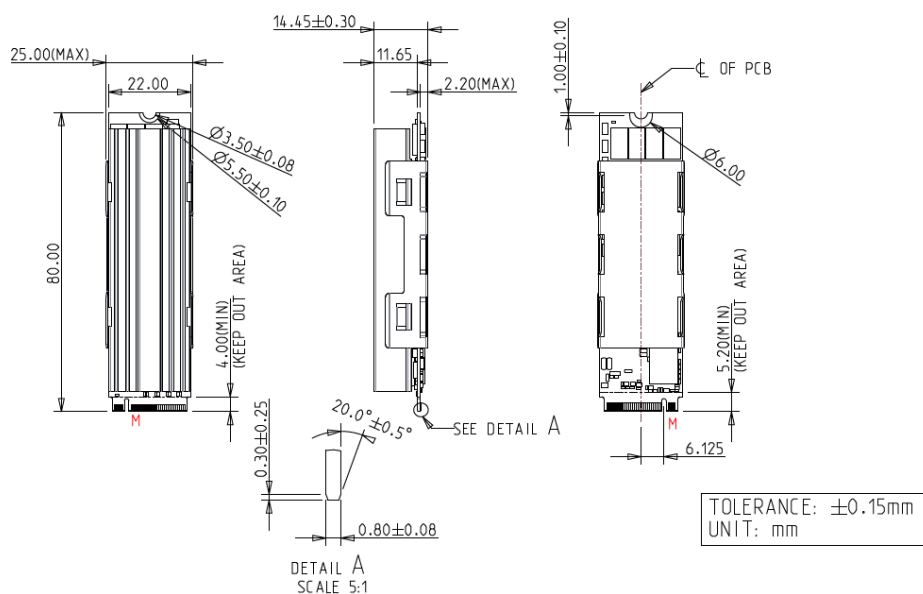


Diagram (WT)



Specifications

Contact us for more information about the M.2 (P80) 4TG2-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.

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

© 2022 Innodisk Corporation.
All right reserved. Specifications are subject to change without prior notice.

20240123

Interface	PCIe Gen. 4x4
Flash Type	3D TLC
P/E cycle	3,000
Capacity	512GB~2TB
Max. Channels	8
Sequential R/W (MB/sec, max.)	6,950/4,700
Max. Power Consumption	9.9W
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 4.5 mm WT with heatsink: 25 X 80.0 X 14.45 mm (Pure M.2: 22.0 X 80.0 X 4 mm)
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -40°C ~ +85°C MTBF: 3 million hours

Ordering Information

Operation Temp.	512GB	1TB	2TB
Standard Grade (0°C ~ +70°C)	DGM28-C12DP1KCDEFPP DGM28-C12DP2KCDEFPP	DGM28-01TDP1KCDEFPP DGM28-01TDP2KCDEFPP	DGM28-02TDP1KCDEFPP DGM28-01TDP2KCDEFPP
Industrial Grade (-40°C ~ +85°C)	DGM28-C12DP1KWDEFPPH DGM28-C12DP2KWDEFPPH	DGM28-01TDP1KWDEFPPH DGM28-01TDP2KWDEFPPH	DGM28-02TDP1KWDEFPPH DGM28-02TDP2KWDEFPPH

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

