

Datasheet

M.2 (P42) 4IE2 series

- PCIe Gen 4 x4, NVMe 1.4
- Ultra iSLC technology
- Excellent data transfer speed
- Heat-spreading design
- Thermal Throttling management
- Support iPower Guard & iData Guard
- 256 bit AES hardware based encryption
- Support TCG OPAL function (optional)



Introduction

Innodisk M.2 (P42) 4IE2 is a NVM Express DRAM-less SSD designed with PCIe interface and industrial 3D TLC NAND Flash. M.2 (P42) 4IE2 supports PCIe Gen 4 x4 and it is compliant with NVMe 1.4 providing excellent top and sustained performance. With sophisticated error detection and correction (ECC) functions, the module can provide full End-to-end Data Path Protection that secures the data transmission between the host system and NAND Flash.

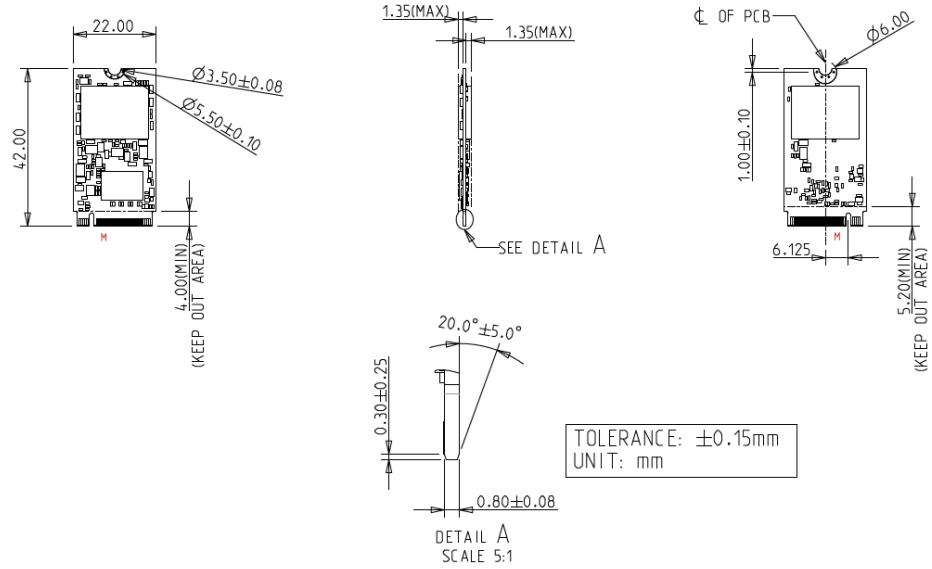
M.2 (P42)

4IE2 series

Contact us for more information about the M.2 (P42) 4IE2.

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)



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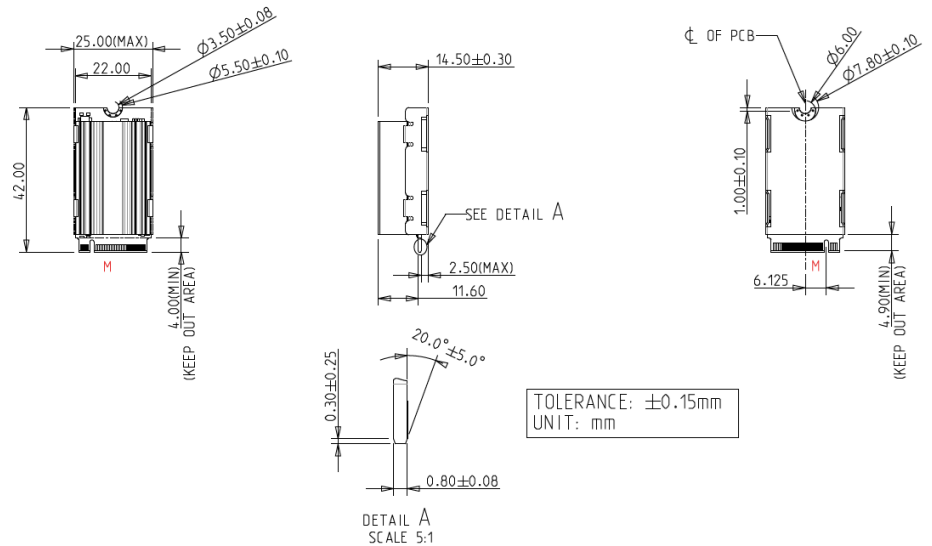
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Diagram (WT)



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Specification

Interface	PCIe Gen4 x4
Flash Type	iSLC (3D TLC)
P/E cycle	100,000
Capacity	40GB~320GB
Max. Channels	4
Sequential R/W (MB/s, Max)	3,550/2,950
Max. Power Consumption (RMS)	4.7W
Thermal Sensor	√
External DRAM buffer	N/A
H/W Write Protect	N/A
S.M.A.R.T	√
Dimension (WxLxH)	22.0 x 42.0 x 3.5 mm (ST) 25.0 x 42.0 x 14.5 mm (WT with heatsink)
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -40°C ~ +85°C MTBF: 3 million hours

Ordering Information

Operation Temp.	40GB	80GB	160GB	320GB
Standard Grade (0°C ~ +70°C)	DHM24-40GDF1KCADF	DHM24-80GDF1KCAQF	DHM24-A60DF1KCAQF	DHM24-D2GDF1KCAQF
Industrial Grade (-40°C ~ +85°C)	DHM24-40GDF1KWADFH	DHM24-80GDF1KWAQFH	DHM24-A60DF1KWAQFH	DHM24-D2GDF1KWAQFH

For TCG OPAL function, the PN Code 10th~12th will be DF2.

