

Datasheet

M.2 (P42) 4TE2 series

- PCIe Gen 4 x4, NVMe 1.4
- 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) 4TE2 is a NVM Express DRAM-less SSD designed with PCIe interface and industrial 3D TLC NAND Flash. M.2 (P42) 4TE2 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)

4TE2 series

Contact us for more information
about the M.2 (P42) 4TE2.

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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202408

Diagram (ST)

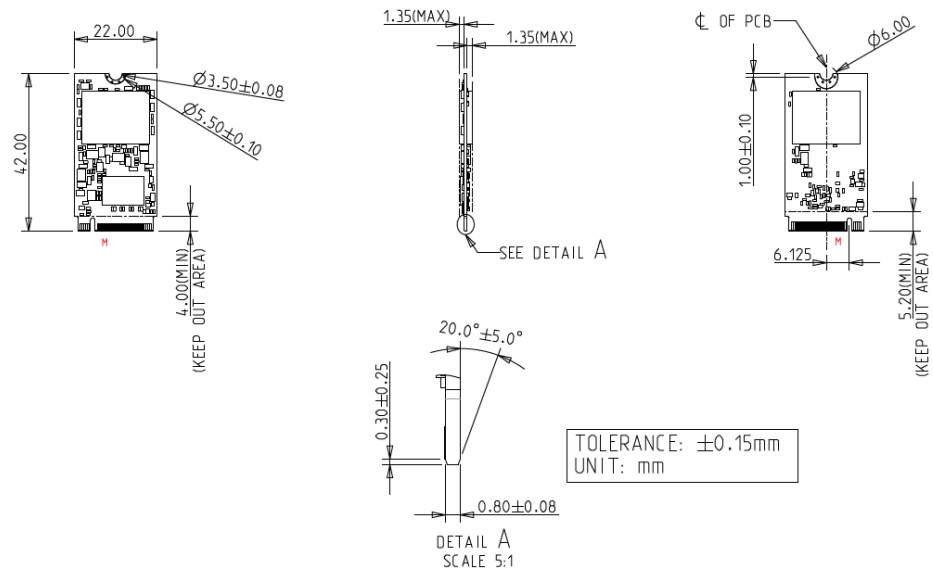
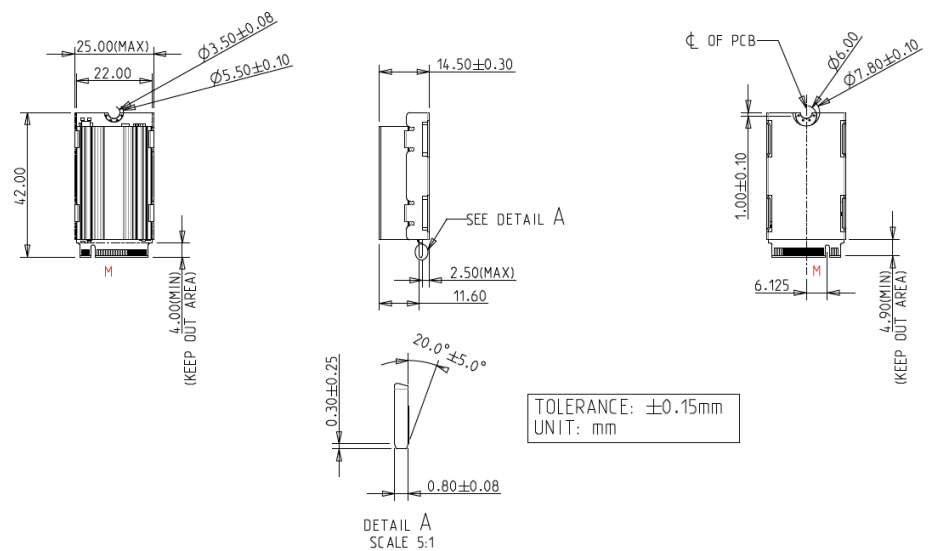


Diagram (WT)



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Specification

Interface	PCIe Gen4 x4
Flash Type	3D TLC
P/E cycle	3,000
Capacity	128GB~2TB
Max. Channels	4
Sequential R/W (MB/s, Max)	3,550/2,950
Max. Power Consumption (RMS)	5.0W
Thermal Sensor	√
External DRAM buffer	N/A
H/W Write Protect	N/A
AES	√
TCG OPAL	√ (optional)
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.	128GB	256GB	512GB	1TB	2TB
Standard Grade (0°C ~ +70°C)	DEM24-A28DF1KCADF	DEM24-B56DF1KCAQF	DEM24-C12DF1KCAQF	DEM24-01TDF1KCAQF	DEM24-02TDF1KCAQF
Industrial Grade (-40°C ~ +85°C)	DEM24-A28DF1KWADFH	DEM24-B56DF1KWAQFH	DEM24-C12DF1KWAQFH	DEM24-01TDF1KWAQFH	DEM24-02TDF1KWAQFH

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