

Datasheet

# M.2 (P80) 4TE2 series

- PCIe Gen 4 x4, NVMe 1.4
- Excellent data transfer speed
- Heat-spreading design
- iPower Guard / iData Guard
- Thermal Throttling Management
- iCell technology for power loss protection



## Introduction

Innodisk M.2 (P80) 4TE2 is a NVM Express DRAM-less SSD designed with PCIe interface and industrial 3D TLC NAND Flash. M.2 (P80) 4TE2 supports PCIe Gen4 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 (P80) 4TE2 series

Contact us for more information  
about the M.2 (P80) 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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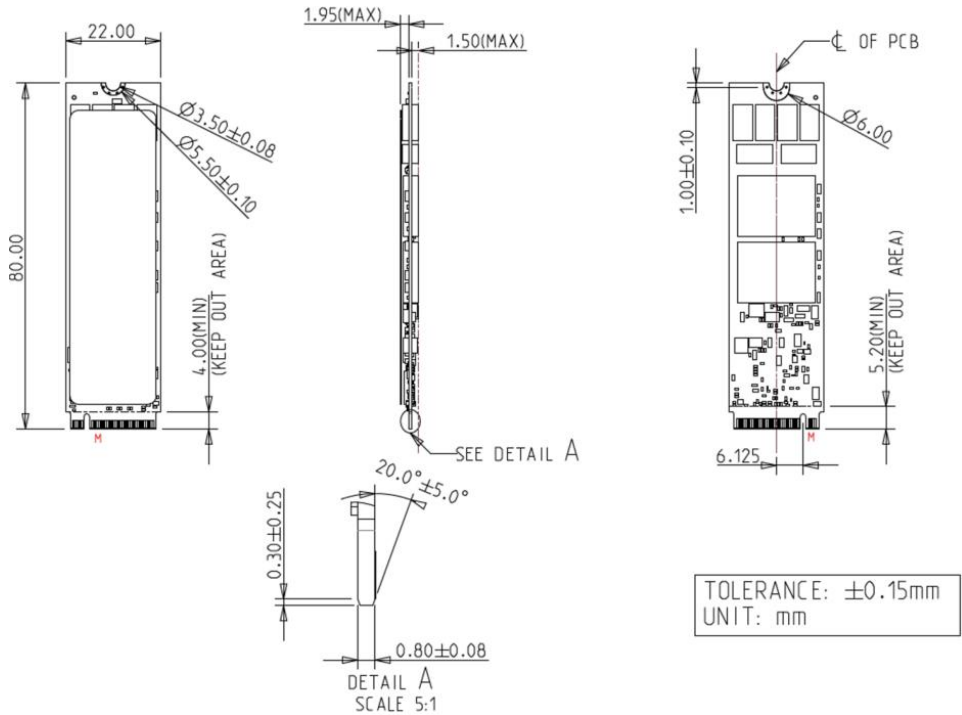
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## Diagram (ST)



# Specifications

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Interface	PCIe Gen 4 x4
Flash Type	3D TLC
P/E cycle	3,000
Capacity	128GB~2TB
Max. Channels	4
Sequential R/W (MB/sec, max.)	3,550/2,900
Max. Power Consumption	5.4W
Thermal Sensor	√
External DRAM buffer	N/A
H/W Write Protect	N/A
S.M.A.R.T.	√
PLP (iCell)	√ (Optional)
Dimension (WxLxH)	22.0 x 80.0 x 4.25 mm (ST with heat-spreading copper layer)
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)	DEM28-A28DF1KCADL(P)	DEM28-B56DF1KCAQL(P)	DEM28-C12DF1KCAQL(P)	DEM28-01TDF1KCAQL(P)	DEM28-02TDF1KCAQL(P)

(P): PLP (iCell) (optional)

