

Datasheet

M.2 (P42) 3TE6 B+M Key series

- PCIe Gen. III x2, NVMe 1.3
- DRAM-less Solution
- Less Controller Heat
- Anti-Vibration mechanical design
- Hybrid Write Mode
- LDPC ECC engine supported.
- iPowerGuard Protection



Introduction

Innodisk M.2 (P42) 3TE6 is a NVM Express DRAM-less SSD designed with PCIe interface and industrial 3D TLC NAND Flash. M.2 (P42) 3TE6 supports PCIe Gen III x2 and it is compliant with NVMe 1.3 providing excellent top and also outstanding sustained performance. With sophisticated error detection and correction (ECC) functions, the module can ensure full End-to-End data path protection that secures the data transmission between host system and NAND Flash. In addition, with embedded AES-256 bit engine, your data can be further secured.

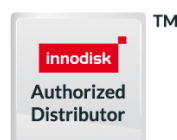
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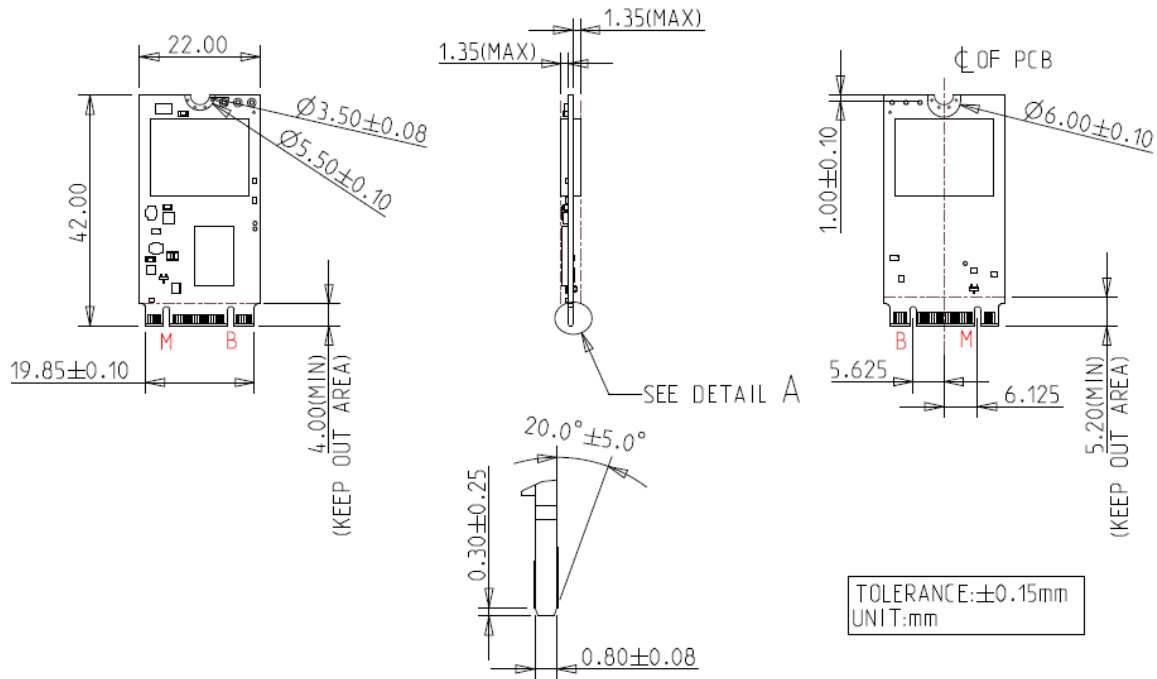
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M.2 (P42)

3TE6 B+M Key series



Interface	PCIe Gen. III x2
Flash Type	3D TLC
P/E cycle	3,000
Capacity	64GB~1TB
Max. Channels	4
Sequential R/W (MB/s, Max)	1,650/1,480
Sustained Sequential Write (MB/s, Max, Room Temperature)	600
Max. Power Consumption (RMS)	3.5W
Thermal Sensor	√
External DRAM buffer	NA
H/W Write Protect	NA
iCell	NA
Dimension (WxLxH)	22.0 X 42.0 X 1.35 mm (Top side without Heat-Dissipating Copper Foil) 22.0 X 42.0 X 1.95 mm (Top side with Heat-Dissipating Copper Foil. Default setting for Industrial Grade PNs.)
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Working Temperature: -40°C ~ +85°C MTBF: 3 million hours

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Ordering Information

Operation Temp.	64GB	128GB	256GB	512GB	1TB
Standard Grade (0°C ~ +70°C)	DEM24- 64GDD1ECCDF	DEM24- A28DD1ECCQF	DEM24- B56DD1ECCQF	DEM24- C12DD1ECCQF	DEM24- 01TDD1ECCQF
Industrial Grade (-40°C ~ +85°C)	DEM24- 64GDD1EWCDF	DEM24- A28DD1EWCQF	DEM24- B56DD1EWCQF	DEM24- C12DD1EWCQF	DEM24- 01TDD1EWCQF

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