Datasheet

M.2 (P42) 3TE6 series

- PCIe Gen. III x4, NVMe 1.3
- DRAM-less Solution
- Less Controller Heat
- Anti-Vibration mechanical design
- Hybrid Write Mode
- LDPC ECC engine supported.
- iPowerGuard Protection



Introduction

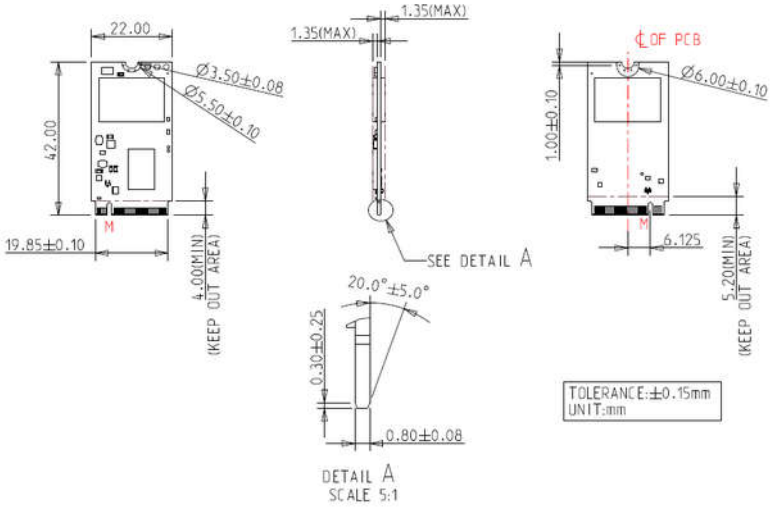
Innodisk M.2 (P42) 3TE6 is a NVM Express DRAM-less SSD designed with PCIe interface and industrial 3D TLC NAND Flash. M.2 (P42) 3TE6 supports PCIe Gen III x 4 and it is compliant with NVMe 1.3 providing excellent top and also outstanding sustained performance. With sophisticated error detection and correction (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 a customized embedded AES-256 bit engine, your data can be further secured.

M.2 (P42)

3TE6 series

Contact us for more information about the M2 (P42) 3TE6.

Innodisk is a service-driven provider of industrial embedded flash and DRAM storage products and technologies, wit a focus on the cloud computing, industrial/embedded, and aerospace and defense industries.



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Interface	PCIe Gen. III x4
Flash Type	3D TLC
P/E cycle	3,000
Capacity	64GB~1TB
Max. Channels	4
Sequential R/W (MB/s, Max)	2,000/1,850
Sustained Sequential Write (MB/s, Max)	650
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

Ordering Information

Operation Temp.	64GB	128GB	256GB	512GB	1TB
Standard Grade (0°C ~ +70°C)	DEM24-64GDD1ECADF	DEM24-A28DD1ECAQF	DEM24-B56DD1ECAQF	DEM24-C12DD1ECAQF	DEM24-01TDD1ECAQF
Industrial Grade (-40°C ~ +85°C)	DEM24-64GDD1EWADF	DEM24-A28DD1EWAQF	DEM24-B56DD1EWAQF	DEM24-C12DD1EWAQF	DEM24-01TDD1EWAQF

E: 64 layers 3D TLC

Operation Temp.	128GB	256GB	512GB	1TB
Standard Grade (0°C ~ +70°C)	DEM24-A28DD1%CADF	DEM24-B56DD1%CAQF	DEM24-C12DD1%CAQF	DEM24-01TDD1%CAQF
Industrial Grade (-40°C ~ +85°C)	DEM24-A28DD1%WADF	DEM24-B56DD1%WAQF	DEM24-C12DD1%WAQF	DEM24-01TDD1%WAQF

%. G: 96 layers 3D TLC; K: 112 layers 3D TLC