

Datasheet

M.2 (P80) 3ME2 series

- PCIe Gen. III x2, NVMe 1.3
- Excellent data transfer speed
- Zero mechanical interference
- Anti-vibration mechanical design
- LDPC ECC engine supported.
- End-to-end Data Path Protection
- iCell supported



Introduction

Innodisk M.2 (P80) 3ME2 is an NVM Express DRAM-less SSD designed as the standard M.2 form factor with PCIe interface and MLC NAND Flash. M.2 (P80)3ME2 supports PCIe Gen III x2, and it is compliant with NVMe 1.3 providing excellent performance. Moreover, it adopts MLC NAND Flash providing high endurance and reliability. 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.

Innodisk M.2 (P80) 3ME2 is integrated with Marvell controller which provide both low power consumption and efficient heat dissipation, making the SSD optimal for space-constrained IPCs and server boot-up applications.

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Distributore Autorizzato per l'Italia:

Contradata Milano S.r.l.

Via Solferino 12, 20900 Monza (MB) - Italy

Tel: (+39) 039-230.14.92 | Email: info@contradata.it



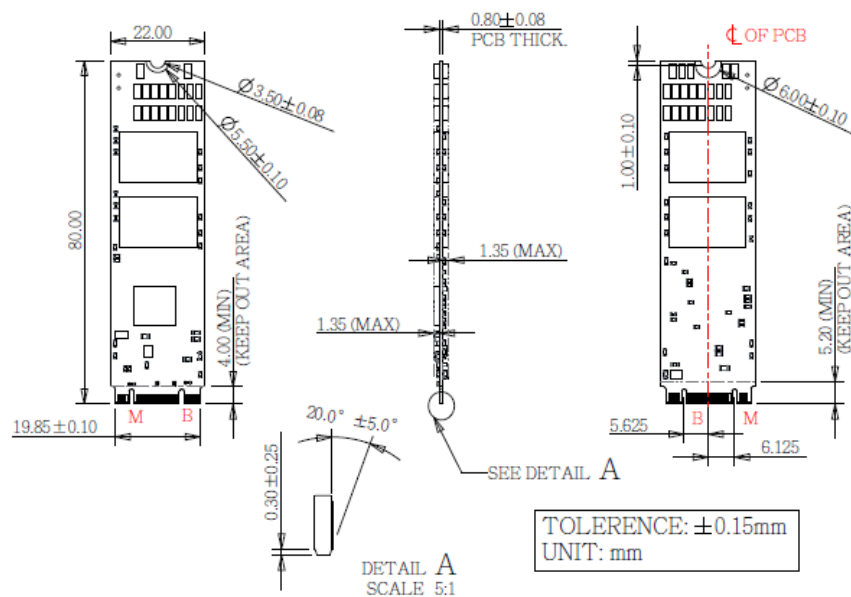
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M.2 (P80)

3ME2 series

Diagram



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Interface	PCIe Gen. III x2
Flash Type	MLC
P/E cycle	3,000
Capacity	32GB~512GB
Max. Channels	4
Sequential R/W (MB/sec, max.)	1300/480
Max. Power Consumption	3.72W(3.3x1130mA)
Thermal Sensor	✓
External DRAM buffer	-
H/W Write Protect	Optional
iCell	Optional
Dimension (WxLxH)	22.0 X 80.0 X 3.5 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -55°C ~ +95°C MTBF: 3,000,000

Ordering Information

Operation Temp.	32GB	64GB	128GB	256GB	512GB
Standard Grade (0°C ~ +70°C)	DEM28- 32GM61BCADC(P)	DEM28- 64GM61BCAQC(P)	DEM28- A28M61BCAQC(P)	DEM28- B56M61BCAQC(P)	DEM28- C12M61BCAQC(P)
Industrial Grade (-40°C ~ +85°C)	DEM28- 32GM61BWADC(P)	DEM28- 64GM61BWAQC(P)	DEM28- A28M61BWAQC(P)	DEM28- B56M61BWAQC(P)	DEM28- C12M61BWAQC(P)

*(P) for model with iCell function



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