

MEMXPRO M.2 2242 SATA ET30 Series

10K P/E Cycles, Industrial Design



Features

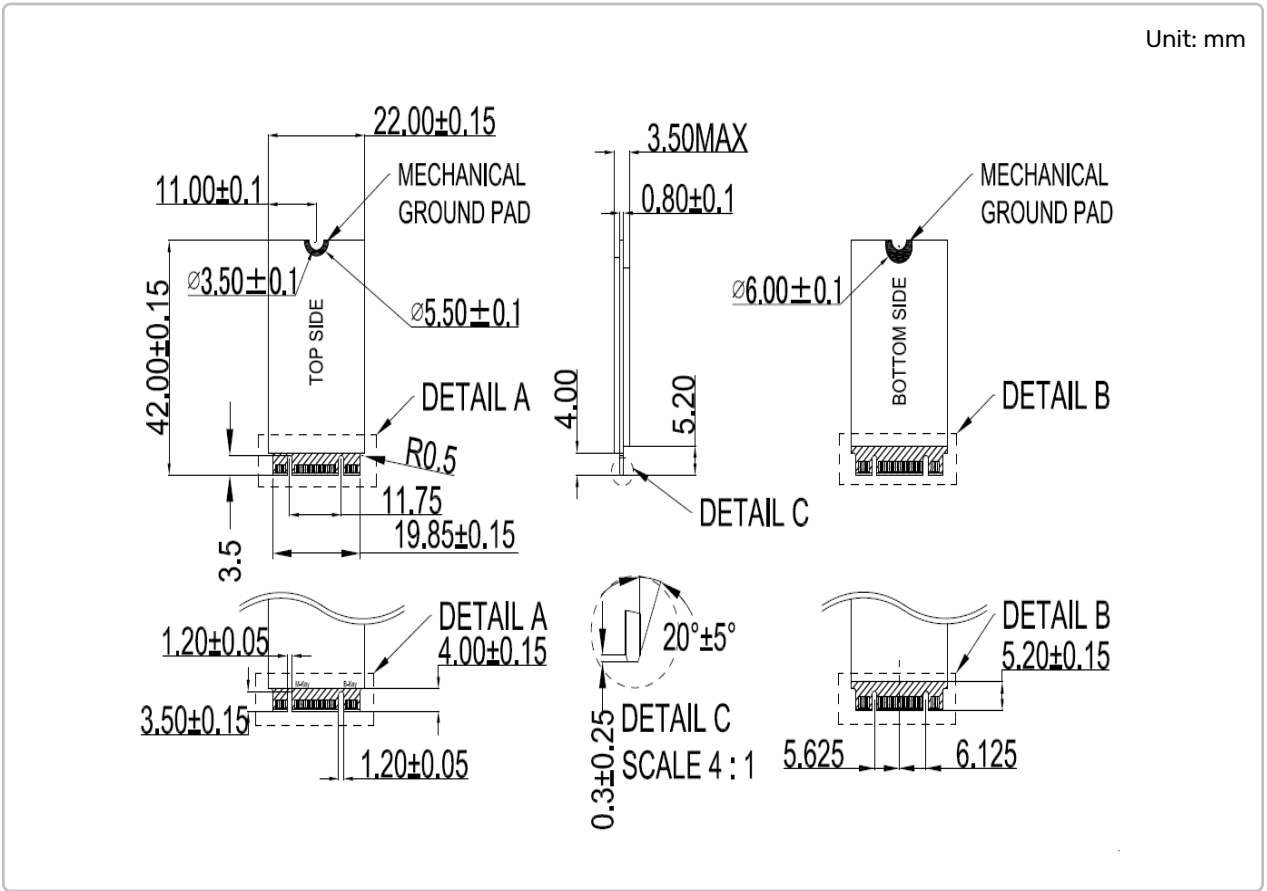
- M.2 (NGFF) standard of 22mm wide, 42mm long
- Micron B17A 3D TLC, 10K P/E Cycles
- 560/515 MB/s of Read/Write speeds
- DRAM-less, up to 512GB capacity
- Commercial/extended/wide temp. solutions
- Built-in LDPC, RAID engine data protection
- Built-in OCP/OVP
- mSMART storage device monitoring

Specification

Product Model	M.2 2242 SATA ET30
Interface	SATA III
Form Factor	M.2 SATA (2242)
Controller	SMI SM2258XT
Flash Type	3D TLC (Original Micron B17A)
P/E Cycle	10,000 times
Max. Channel	4
Density	64GB-512GB
Sequential R/W (MB/sec, max.)	560/515
Operating Temperature	0°C~+70°C/-25°C~+85°C/-40°C~+85°C
Max. Power Consumption	1.82W (3.3Vx551mA)
Dimension (L x W x H/mm)	22x42x3.5
Operating Voltage	3.3V±5%
Storage Temperature	-55°C~+95°C
External DRAM Buffer	N/A
Thermal Sensor	✓
DEVSLP Mode	Optional
Vibration	20G (7-2KHz)
Shock Resistance	1500G@0.5ms
MTBF	>3 million hours

Dimensions

Unit: mm



Total Bytes Written & Ordering Information

Capacity	TBW*	Commercial (0°C~70°C)	Extended (-25°C~85°C)	Industrial (-40°C~+85°C)
64GB	340TB	FE24S-64GMTS5J1C1	FE24S-64GMTS5J1E1	FE24S-64GMTS5J1W1
128GB	687TB	FE24S-A2GMTS5J2C1	FE24S-A2GMTS5J2E1	FE24S-A2GMTS5J2W1
256GB	1,375TB	FE24S-B5GMTS5J2C1	FE24S-B5GMTS5J2E1	FE24S-B5GMTS5J2W1
512GB	2,750TB	FE24S-E1GMTS5J4C1	FE24S-E1GMTS5J4E1	FE24S-E1GMTS5J4W1

Note:* TBW calculation is tested upon JEDEC JESD218A & 219A standards.