

# MEMXPRO mSATA ET30 Series

10K P/E Cycles, Budget-Friendly, Industrial Design



## Features

- SATA III, compliant with JEDEC M0-300A
- Industrial Micron B17a 3D TLC, 10K P/E Cycles
- 560/515 MB/s of Read/Write speeds
- DRAM-less, up to 1TB capacity
- Built-in LDPC, ECC RAID engine, and OCP/OVP
- mSMART storage device monitoring

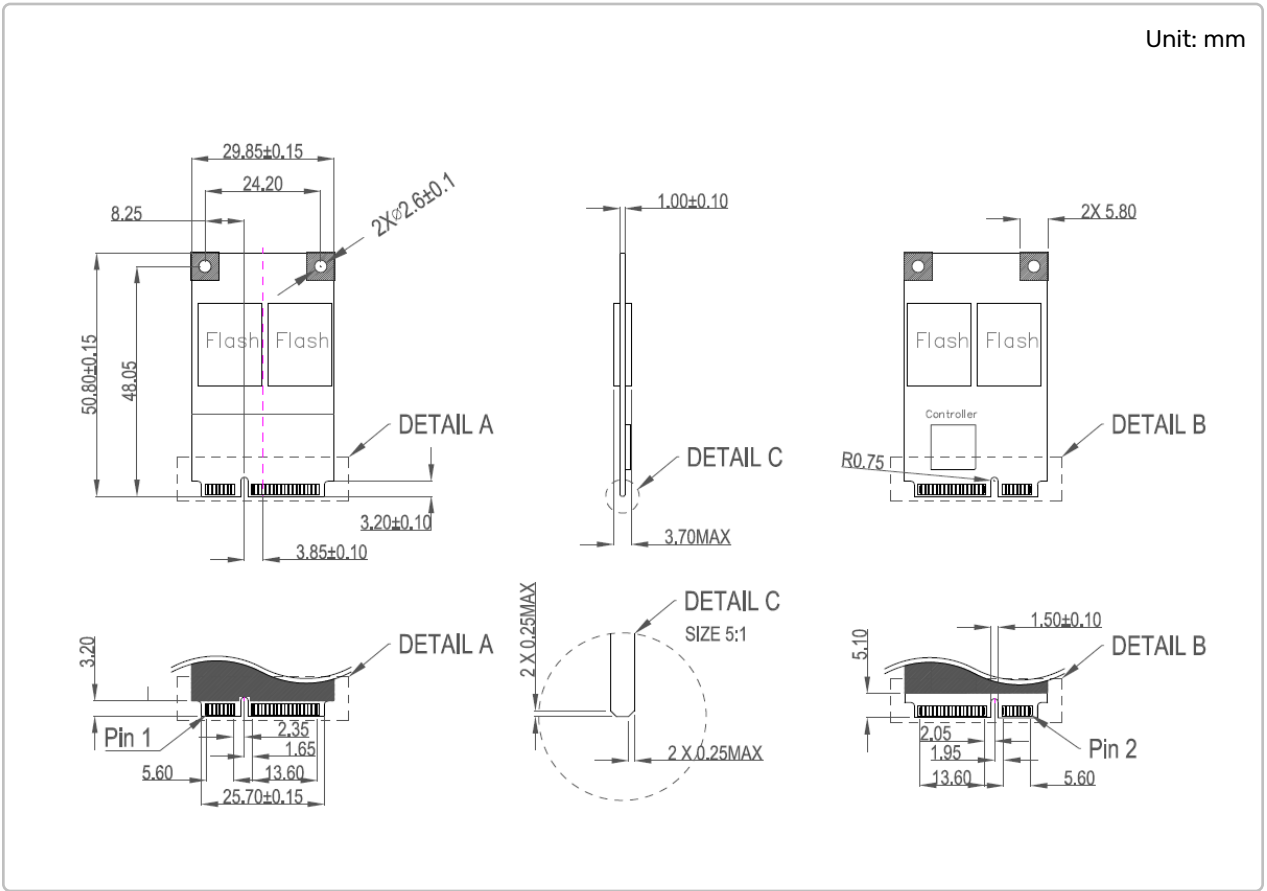
## Specification

Product Model	mSATA ET30
Interface	SATA III
Form Factor	mSATA (M0300A)
Controller	SMI SM2258XT
Flash Type	3D TLC (Original Micron B17A flash chip)
P/E Cycle	10,000 times
Max. Channel	4
Density	64GB~1TB
Sequential R/W (MB/sec, max.)	560/515
Operating Temperature	0°C~+70°C
Max. Power Consumption	1.92W (3.3V x 580mA)
Dimension (L x W x H/mm)	50.8x29.85x3.75
Operating Voltage	3.3V±5%
Storage Temperature	-55°C~+95°C
Security*	AES 128/256 Encryption Built-in H/W SHA256 and TRNG
External DRAM Buffer	N/A
Thermal Sensor	✓
DEVSLP Mode	<5mW
Vibration	20G (7~2KHz)
Shock Resistance	1500G@0.5ms
MTBF	>3 million hours

\*: The functions will be activated by specific firmware versions.

# 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	FEMSS-64GMTS5J1C1	FEMSS-64GMTS5J1E1	FEMSS-64GMTS5J1W1
128GB	687TB	FEMSS-A2GMTS5J2C1	FEMSS-A2GMTS5J2E1	FEMSS-A2GMTS5J2W1
256GB	1,375TB	FEMSS-B5GMTS5J4C1	FEMSS-B5GMTS5J4E1	FEMSS-B5GMTS5J4W1
512GB	2,750TB	FEMSS-E1GMTS5J4C1	FEMSS-E1GMTS5J4E1	FEMSS-E1GMTS5J4W1
1TB	5,506TB	FEMSS-010MTS5J4C1	FEMSS-010MTS5J4E1	FEMSS-010MTS5J4W1

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