

MEMXPRO mSATA EM31 Series

Industrial design, OCP & CVP Protect



Features

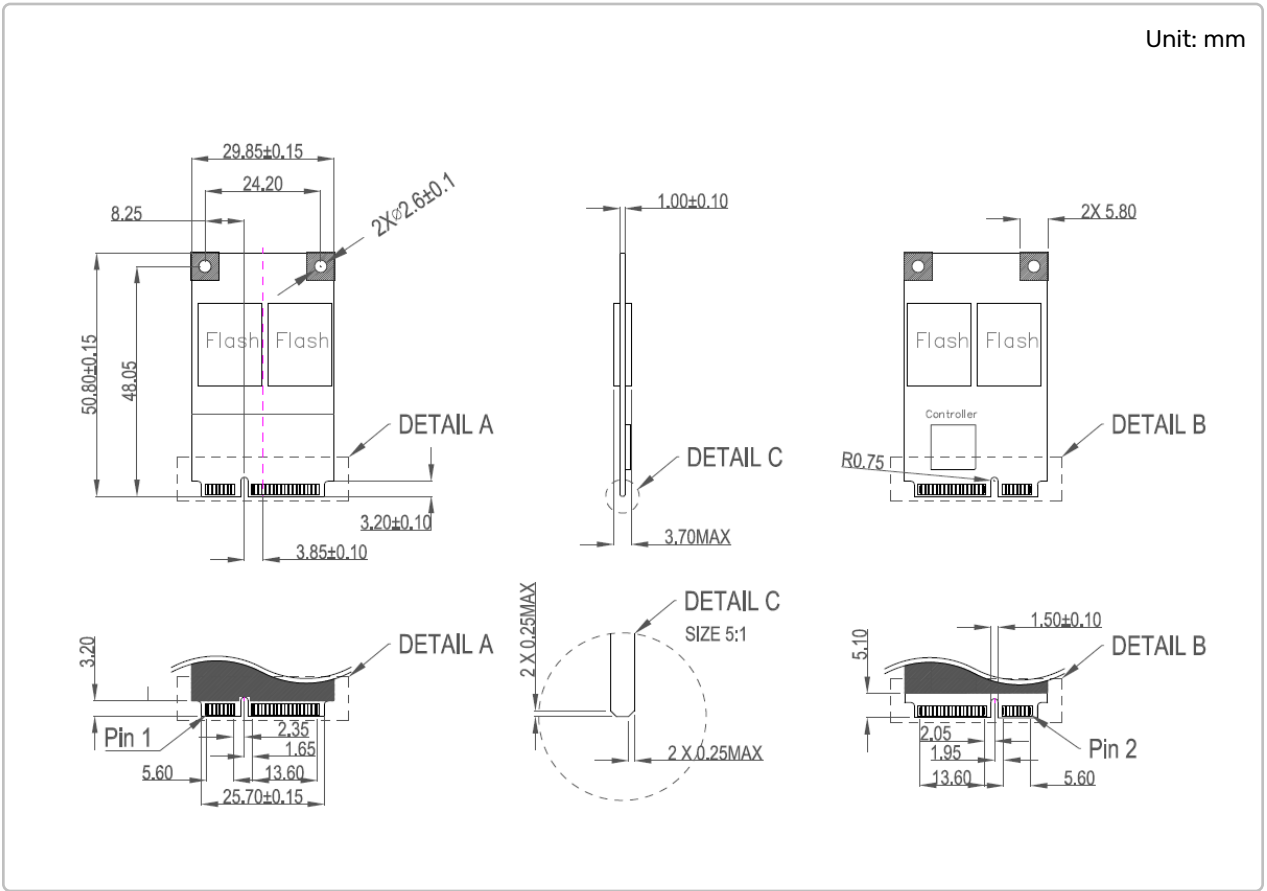
- SATA III, compliant with JEDEC MO-300A
- Original TOSHIBA MLC chip, 3K P/E cycles
- DRAM-less, up to 256GB capacity
- Commercial/extended/wide temp. solutions
- Built-in ECC and OCP/OVP
- NCQ/TRIM/SMART support
- mSMART storage device monitoring

Specification

Product Model	mSATA EM31
Interface	SATA III
Form Factor	mSATA (M0300A)
Flash Type	MLC (TOSHIBA 2D MLC, 3K P/E cycles)
P/E Cycle	3,000 times
Max. Channel	4
Density	16GB-256GB
Sequential R/W (MB/sec, max.)	505/331
Operating Temperature	0°C~+70°C/-25°C~+85°C/-40°C~+85°C
Max. Power Consumption	2.9W (3.3Vx880mA)
Dimension (L x W x H/mm)	50.8x29.85x3.75
Operating Voltage	3.3V±5%
Storage Temperature	-55°C~+95°C
External DRAM Buffer	N/A
Thermal Sensor	✓
DEVSLP Mode	<5mW
ATA Security	✓
S.M.A.R.T.	✓
TRIM	✓
Vibration	20G (7-2KHz)
Shock Resistance	1500G@0.5ms
MTBF	>3 million hours

Dimensions

Unit: mm



Ordering Information

Brand	Capacity	Commercial (0°C-70°C)	Extended (-25°C-85°C)	Industrial (-40°C-+85°C)
Micron	16GB	FEMSS-16GMMS4X1C1	FEMSS-16GMMS4X1E1	FEMSS-16GMMS4X1W1
	32GB	FEMSS-32GMMS4X2C1	FEMSS-32GMMS4X2E1	FEMSS-32GMMS4X2W1
	64GB	FEMSS-64GMMS4X4C1	FEMSS-64GMMS4X4E1	FEMSS-64GMMS4X4W1
Toshiba	64GB	FEMSS-64GTMS4X2C1	FEMSS-64GTMS4X2E1	FEMSS-64GTMS4X2W1
	128GB	FEMSS-A2GTMS4X4C1	FEMSS-A2GTMS4X4E1	FEMSS-A2GTMS4X4W1
	256GB	FEMSS-B5GTMS4X4C1	FEMSS-B5GTMS4X4E1	FEMSS-B5GTMS4X4W1