MEMXPRO mSATA RT30 (Power Plus) Series

10K P/E Cycles, Power Plus Supported



Features

- SATA III, compliant with JEDEC MO-300A
- Industrial Micron B17A 3D TLC, 10K P/E Cycles
- 560/515 MB/s of Read/Write speeds
- DRAM-less, up to 1TB capacity
- Power Plus for data protection
- Commercial/extended/wide temp. solutions
- Built-in LDPC, ECC RAID engine, and OCP/OVP
- mSMART storage device monitoring

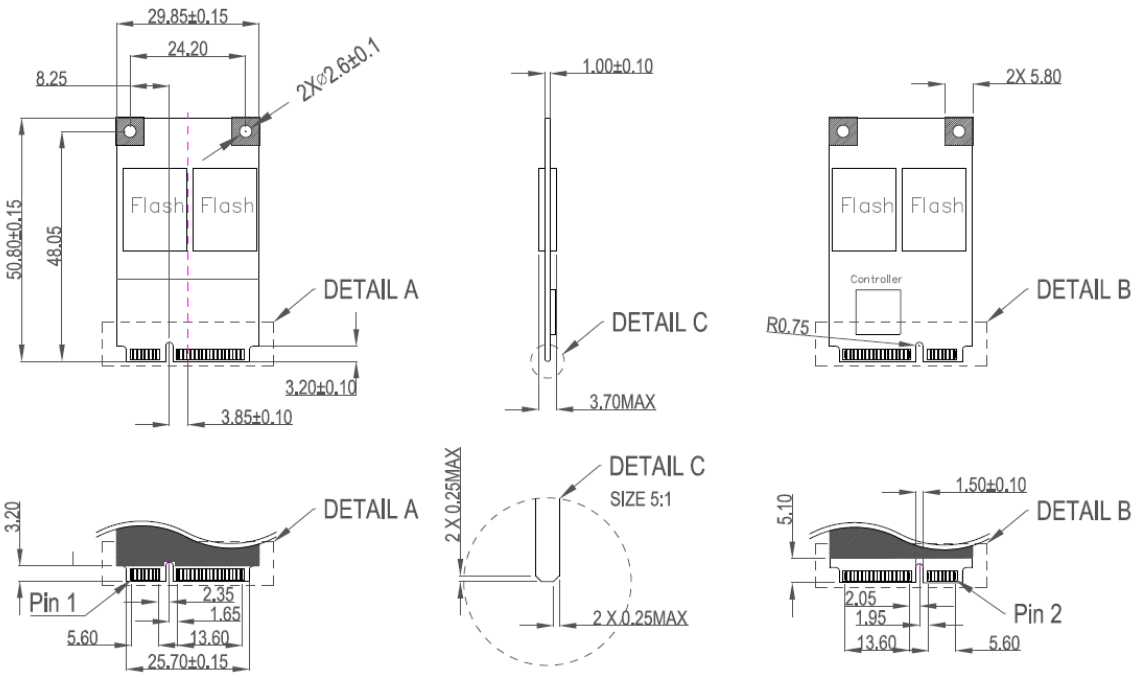
Specification

Product Model	mSATA RT30 (Power Plus)
Interface	SATA III
Form Factor	mSATA (MO300A)
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/-25°C~+85°C/-40°C~+85°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
External DRAM Buffer	N/A
Thermal Sensor	✓
DEVSLP Mode	Optional
Vibration	20G (7~2KHz)
Shock Resistance	1500G@0.5ms
MTBF	>3 million hours

All product specifications are subject to change without notice 2022/9/7

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	FRMSS-64GMTS5J1C1P	FRMSS-64GMTS5J1E1P	FRMSS-64GMTS5J1W1P
128GB	687TB	FRMSS-A2GMTS5J2C1P	FRMSS-A2GMTS5J2E1P	FRMSS-A2GMTS5J2W1P
256GB	1,375TB	FRMSS-B5GMTS5J4C1P	FRMSS-B5GMTS5J4E1P	FRMSS-B5GMTS5J4W1P
512GB	2,750TB	FRMSS-E1GMTS5J4C1P	FRMSS-E1GMTS5J4E1P	FRMSS-E1GMTS5J4W1P
1TB	5,506TB	FRMSS-010MTS5J4C1P	FRMSS-010MTS5J4E1P	FRMSS-010MTS5J4W1P

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

MEMXPRO Make it Possible

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