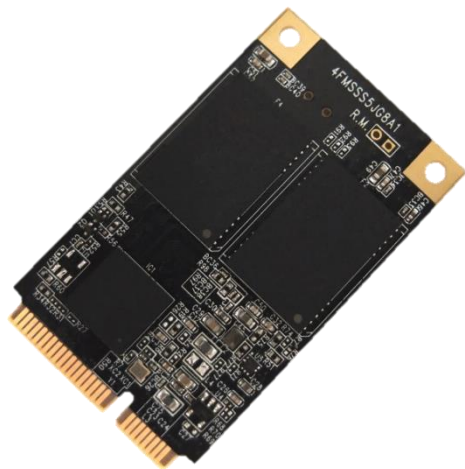# mSATA RT30 (Power Plus) Series
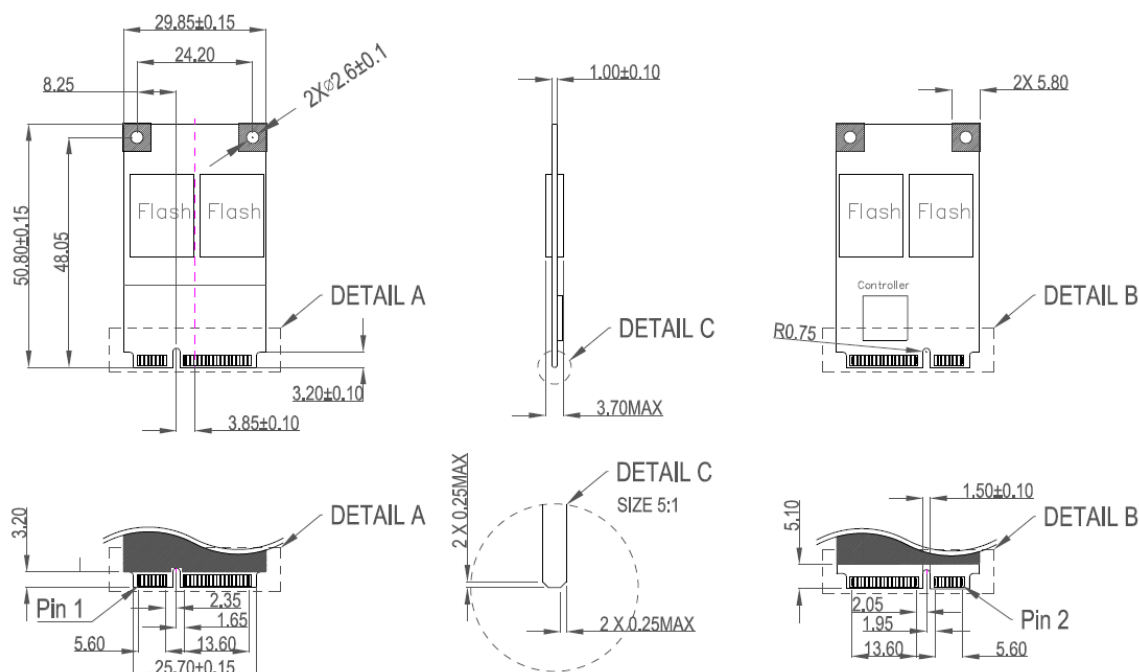
10K P/E Cycles, Power Plus Supported

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 (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	-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

Dimensions

Unit: mm

Total Bytes Written & Ordering Information

Capacity	Industrial (-40°C~+85°C)
64GB mSATA SATA SSD, TLC, 24/7, -40°C to 85°C	Z1-SP-TM0-064-001
128GB mSATA SATA SSD, TLC, 24/7, -40°C to 85°C	Z1-SP-TM0-128-001
256GB mSATA SATA SSD, TLC, 24/7, -40°C to 85°C	Z1-SP-TM0-256-001
512GB mSATA SATA SSD, TLC, 24/7, -40°C to 85°C	Z1-SP-TM0-512-001
1024GB mSATA SATA SSD, TLC, 24/7, -40°C to 85°C	Z1-SP-TM1-000-001

MEMXPRO
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