

# 2.5" SSD RT31 (Power Plus)

10K endurance , Power Plus supported

Industrial 3D TLC  
10K P/E cycle



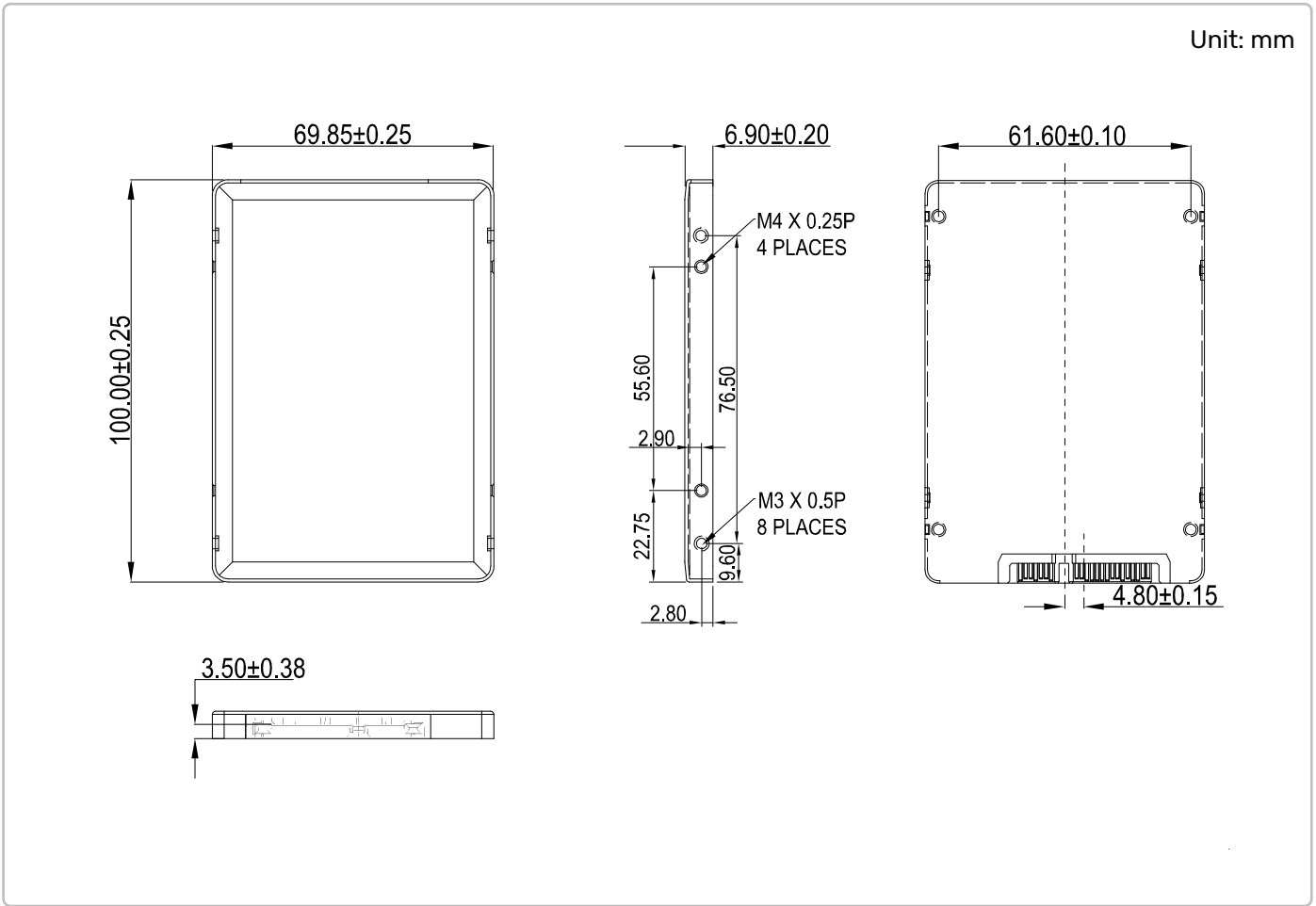
## Features

- Industrial SATA III 2.5" SSD, DRAM cache
- Power Plus for data protection
- Industrial Micron 3D TLC, up to 10K P/E Cycles
- Sustained write performance, no speed dropping
- Up to 2TB capacity
- Support commercial/extended/wide temp.
- Built-in LDPC ECC, RAID engine and OCP/OVP
- mSMART storage device monitoring

## Specification

Product Model	2.5" SSD RT31 (Power Plus)
Interface	SATA III
Form Factor	2.5" SSD (SFF-8201)
Controller	SMI SM2259
Flash Type	3D TLC (Original Micron B17A)
P/E Cycle	10,000 (Pure TLC mode)
Max. Channel	4
Density	128GB-2TB
Sequential R/W (MB/sec, max.)	560/525
Operating Temperature	-40°C~+85°C
Max. Power Consumption	6W (5V x 1200mA)
Dimension (L x W x H/mm)	100x69.85x7
Operating Voltage	5V±5%
Storage Temperature	-55°C~+95°C
External DRAM Buffer	✓
Thermal Sensor	✓
DEVSLP Mode	Optional
Vibration	20G (7-2KHz)
Shock Resistance	1500G@0.5ms
MTBF	>3 million hours

# Dimensions



# Ordering Information

Capacity	Industrial (-40°C~+85°C)
128GB 2.5" SATA SSD, TLC, 24/7, -40°C to 85°C	Z1-SP-T00-128-001
256GB 2.5" SATA SSD, TLC, 24/7, -40°C to 85°C	Z1-SP-T00-256-001
512GB 2.5" SATA SSD, TLC, 24/7, -40°C to 85°C	Z1-SP-T00-512-001
1024GB 2.5" SATA SSD, TLC, 24/7, -40°C to 85°C	Z1-SP-T01-000-001
2048GB 2.5" SATA SSD, TLC, 24/7, -40°C to 85°C	Z1-SP-T02-000-001

## Power Plus

To ensure the safety of data from an unexpected power failure, Power Plus with POSCAP design can provide power backup, which is long enough for all data in the DRAM buffers to be totally written back to mitigate catastrophic power failure.

