

M.2 2280 SATA PT31 Series

10K endurance , sustained high speed, no speed dropping

Industrial 3D TLC
10K P/E cycle



Features

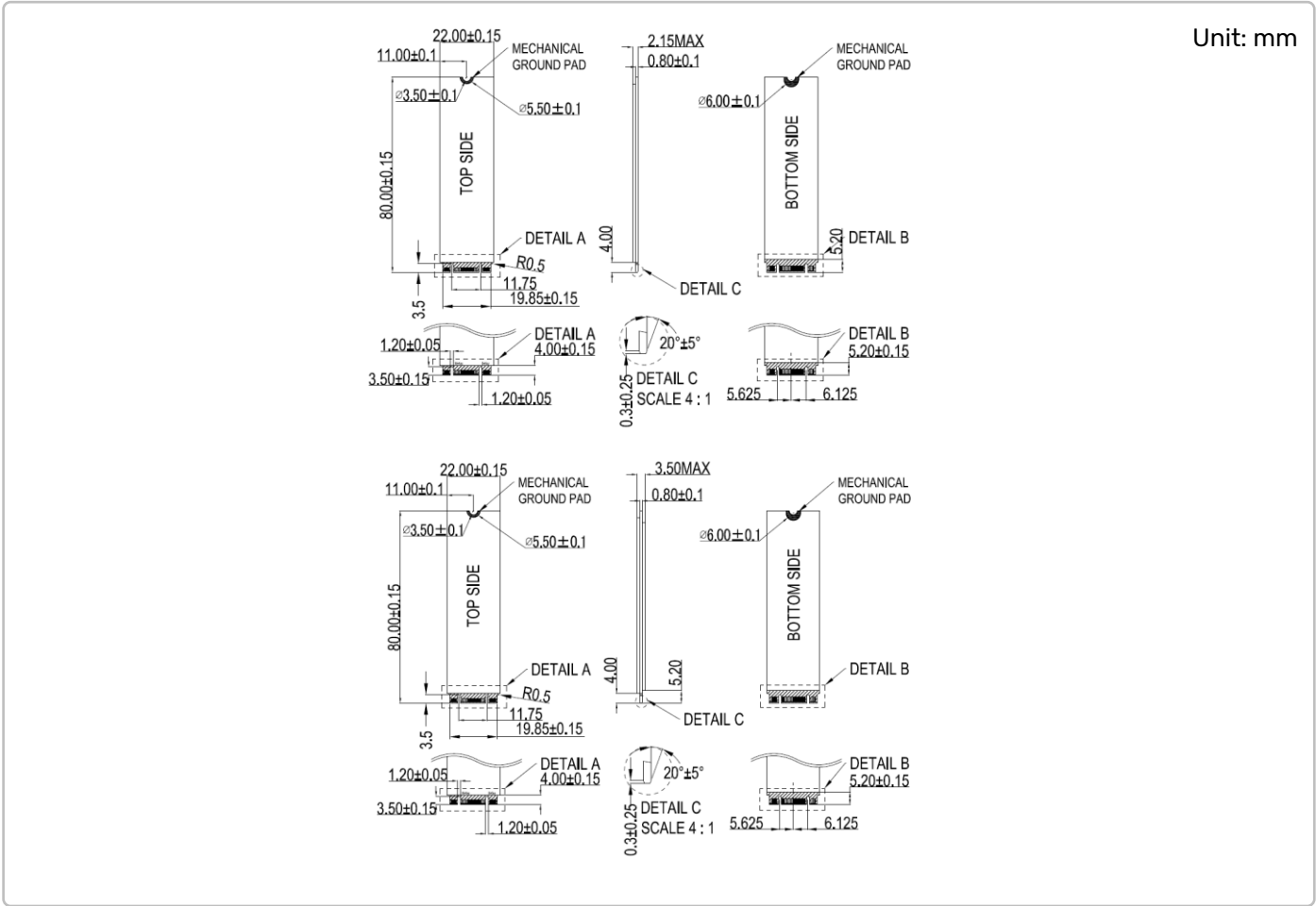
- M.2 (NGFF) standard of 22mm wide, 80 mm long
- Industrial Micron 3D TLC, up to 10K P/E Cycles
- Sustained write performance in direct TLC mode
- Up to 1TB capacity with DRAM buffer
- Support commercial/extended/wide temp.
- Built-in LDPC ECC, RAID engine and OCP/OVP
- mSMART storage device monitoring

Specification

Product Model	M.2 2280 SATA PT31
Interface	SATA III
Form Factor	M.2 SATA (2280/S2/D2)
Controller	SMI SM2259
NAND	3D TLC (Original Micron B17A)
P/E Cycle	10,000 (Pure TLC Mode)
Max. Channel	4
Capacity	128GB~1TB
Sequential R/W (MB/sec, max.)	560/520
Operating Temperature	-40°C~+85°C
Max. Power Consumption	3.3W (3.3Vx1000mA)
Dimension (L x W x H/mm)	22x80x2.15 / 22x80x3.5
Operating Voltage	3.3V±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

Unit: mm



Ordering Information

Capacity	Industrial (-40°C~+85°C)
128GB M.2 2280 SATA SSD, TLC, 24/7, -40°C to 85°C	Z1-SP-TS0-128-280
256GB M.2 2280 SATA SSD, TLC, 24/7, -40°C to 85°C	Z1-SP-TS0-256-280
512GB M.2 2280 SATA SSD, TLC, 24/7, -40°C to 85°C	Z1-SP-TS0-512-280
1024GB M.2 2280 SATA SSD, TLC, 24/7, -40°C to 85°C	Z1-SP-TS1-000-280