MEMXPRO M.2 2280 PCIe PC32 Series
40K endurance SLC mode, sustained high speed PCIe Gen3 x4
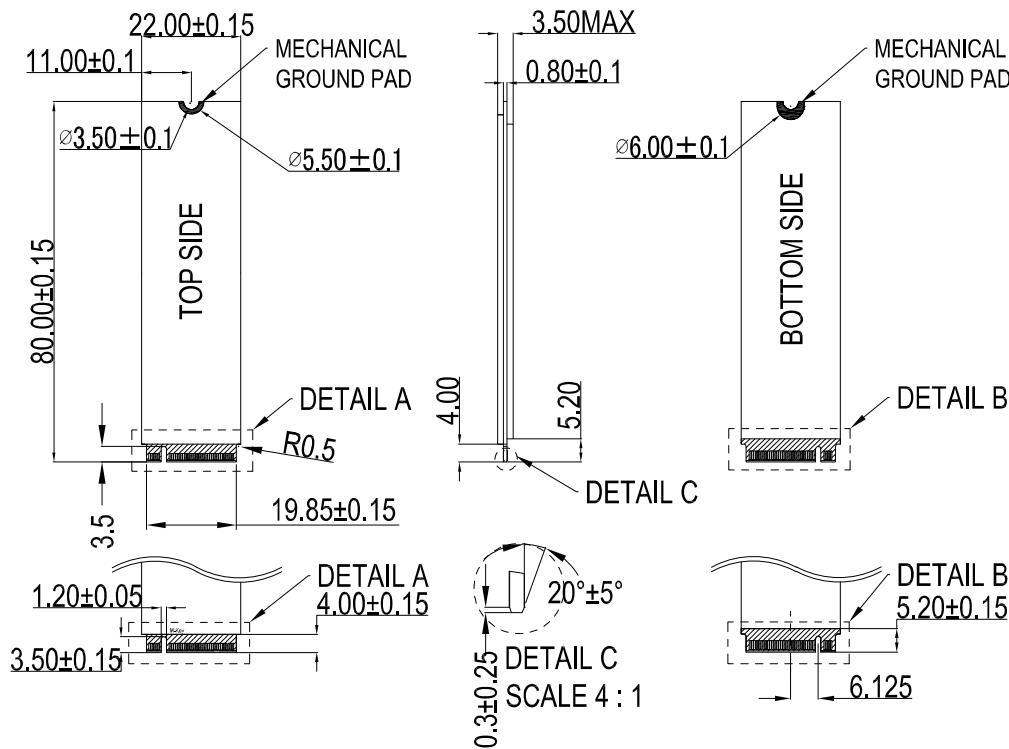
Industrial 3D TLC 40K P/E cycle

Features

- PCIe Gen3x4 M.2 2280 with NVMe 1.3 supported
- Read/Write speeds of up to 3257/2981 MB/s
- Random Performance of up to 215K/186K IOPS
- Industrial Micron 3D TLC, up to 40K P/E Cycles
- Sustained write performance, no speed dropping
- LDPC ECC for improved data integrity
- End-to-end data path protection
- Support thermal throttling

Specification

Product Model	M.2 2280 PCIe PC32
Interface	PCIe Gen 3 X 4
Form Factor	M.2 2280
Controller	SMI SM2262EN
Flash Type	3D TLC (Original Micron B17)
P/E Cycle	40,000 (SLC mode)
Max. Channel	8
Density	80GB ~320GB
Sequential R/W (Q32T1) (MB/sec, max.)	3250/2980
Operating Temperature	0°C~+70°C/-25°C~+85°C/-40°C~+85°C
Max. Power Consumption	TBD
Dimension (L x W x H/mm)	80x22x3.5
Operating Voltage	3.3V±5%
Storage Temperature	-55°C~+95°C
Security*	AES 256-bit Encryption TCG Opal 2.0 compliant Built-in H/W SHA256 and TRNG
External DRAM Buffer	✓
Thermal Sensor	✓
NVMe 1.3	✓
Vibration	20G (7~2KHz)
Shock Resistance	1500G@0.5ms
MTBF	>3 million hours

*: The functions will be activated by specific firmware versions.

Dimensions

Unit: mm

Ordering Information

Capacity	Commercial (0°C~70°C)	Extended (-25°C~+85°C)	Industrial (-40°C~+85°C)
80GB	FP28P-80GMCS624C1	FP28P-80GMCS624E1	FP28P-80GMCS624W1
160GB	FP28P-A6GMCS624C1	FP28P-A6GMCS624E1	FP28P-A6GMCS624W1
320GB	FP28P-C2GMCS628C1	FP28P-C2GMCS628E1	FP28P-C2GMCS628W1