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
- End-to-end data path protection with CRC parity, better safe and data guard features
- LDPC ECC for improved data integrity
- Support thermal throttling
- Built-in OCP/OVP Protection
- 30u" thickness Gold finger

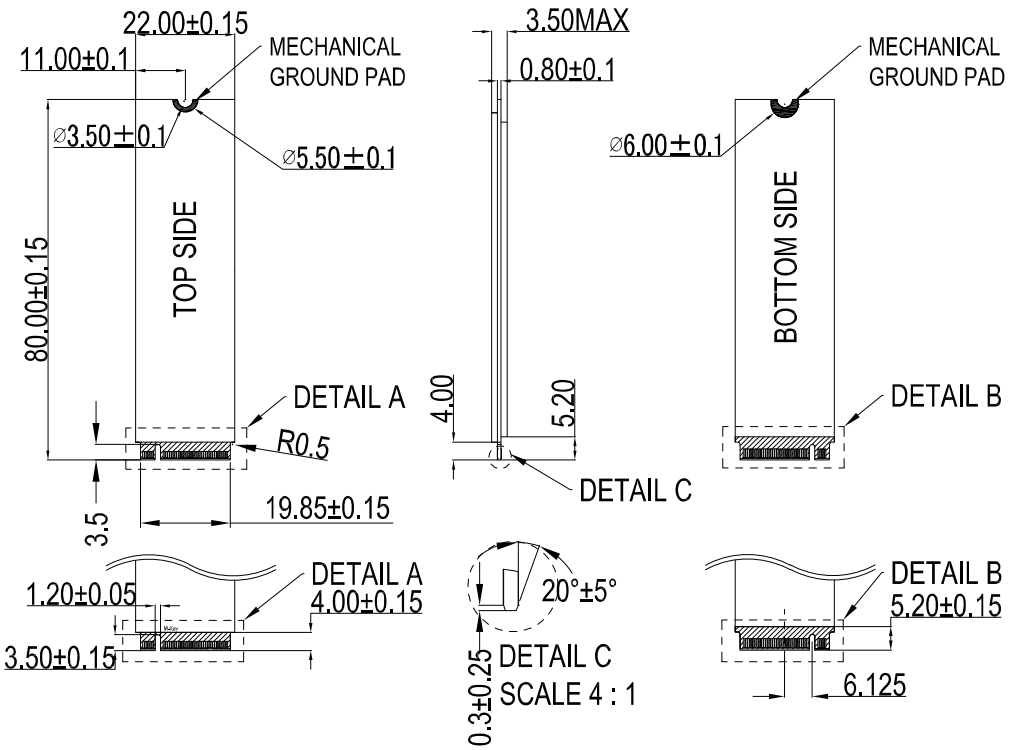
Specification

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 Option*	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



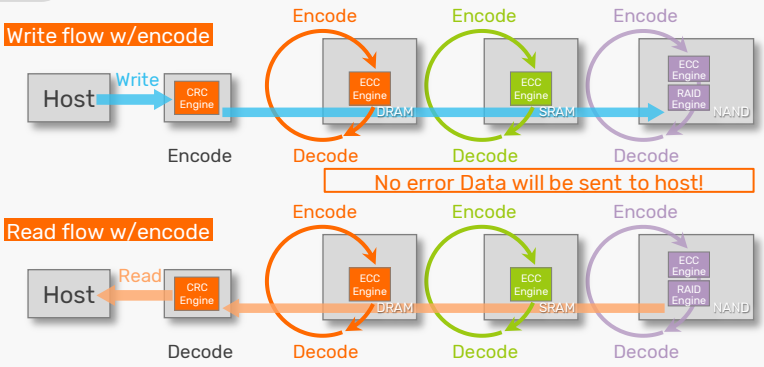
Ordering Information

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

Tip: End-to-end data path protection

MEMXPRO SSD controller solutions incorporate full data error detection with recovery engines to provide enhanced data integrity throughout the entire Host-to-NAND-to-Host data path.

The data recovery algorithm can effectively detect any error in the SSD data path, including hardware (i.e. ASIC) errors, firmware errors and memory errors arising in SRAM, DRAM or NAND.



MEMXPRO Make it Possible

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