

Apacer

The Most **Reliable**
Storage For Industries

PM610-M280



PM610-M280

Overview

Apacer PM610-M280 is designed as M.2 2280 mechanical dimensions, providing full compliance with PCIe Gen3 x2 interface and NVMe 1.2 specifications. Aside from PCIe compliance, PM610-M280 delivers outstanding performance in data transfer, reaching up to 112,000/118,000 and 1,350/1,005 MB/s in IOPS and sequential read/write. This exceptional throughput indicates massive amounts of data can be processed at high speeds, proving that PM610-M280 is more suitable for high performance compact computers and embedded computing systems.

This high-speed disk module uses two PCIe lanes, which greatly saves on power consumption compared with four lanes and delivers much higher performance than SATA SSDs. Moreover, by adopting MLC NAND Flash, PM610-M280 provides trustable endurance and reliability.



Feature

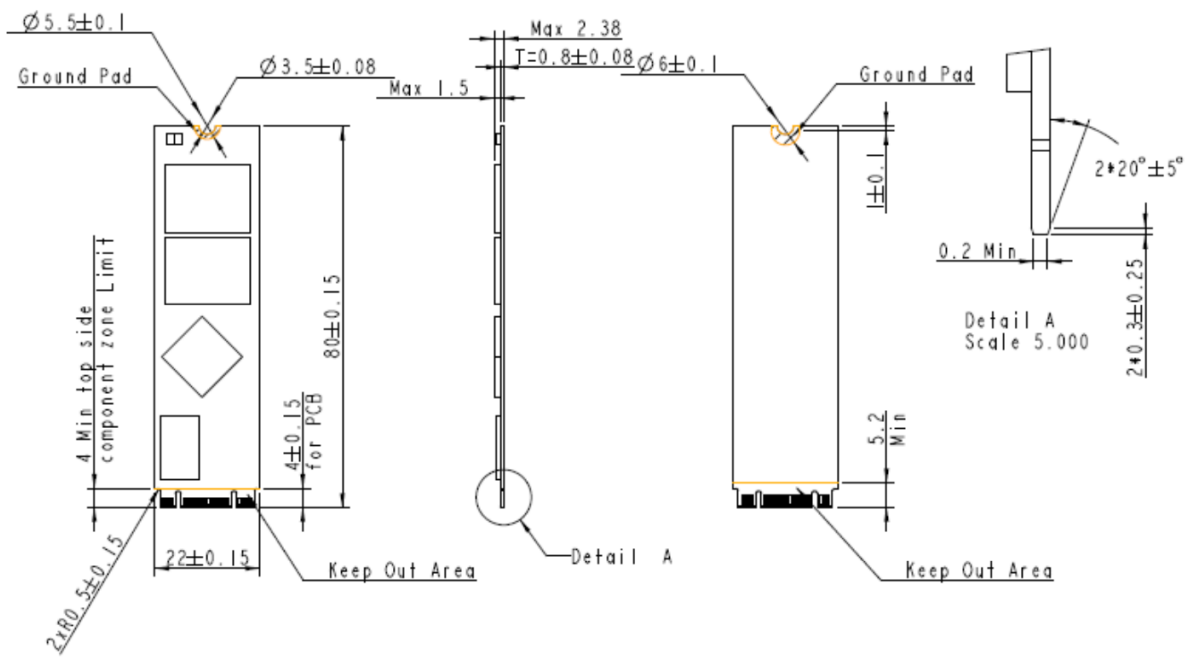
- Superb performance and low latency
- Global Wear Leveling
- Flash bad-block management
- Hyper Cache Technology
- Power Failure Management
- Thermal Management Technique
- End-to-End Data Protection
- TRIM Support
- Supports SSDWidget S.M.A.R.T function

Specifications

Model	PM610-M280
Interface	PCIe NVMe Gen3x2
Connector	M.2 B & M key
Form Factor	M.2 2280-S3-B-M: 64, 128 GB M.2 2280-D5-B-M: 256, 512 GB
NAND Flash Type	MLC
Capacity	64GB~512GB
External DRAM	Yes
Sustained Read Performance (MB/sec)	Up to 1,350
Sustained Write Performance (MB/sec)	Up to 1,005
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	118K
Standard Operating Temperature (°C)	0 ~ + 70
Storage Temperature (°C)	-40 ~ + 100
Thermal Sensor	Yes
Shock	Operation: 50G, 11ms Non-operation: 1500G, 0.5ms
Vibration	Operation: 7.69 Grms, 20~2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 4.02 Grms, 15 ~ 2000 Hz/sine (compliant with MIL-STD-810G)
Operating Voltage	3.3V ±5%
Power Consumption	Active mode: 1310 mA / Idle mode: 145 mA
Dimension (L x W x H)	Single side: 80.00 mm x 22.00mm x 2.38mm Double side: 80.00 mm x 22.00mm x 3.88mm
MTBF (hours)	>1,000,000

Mechanical Specification

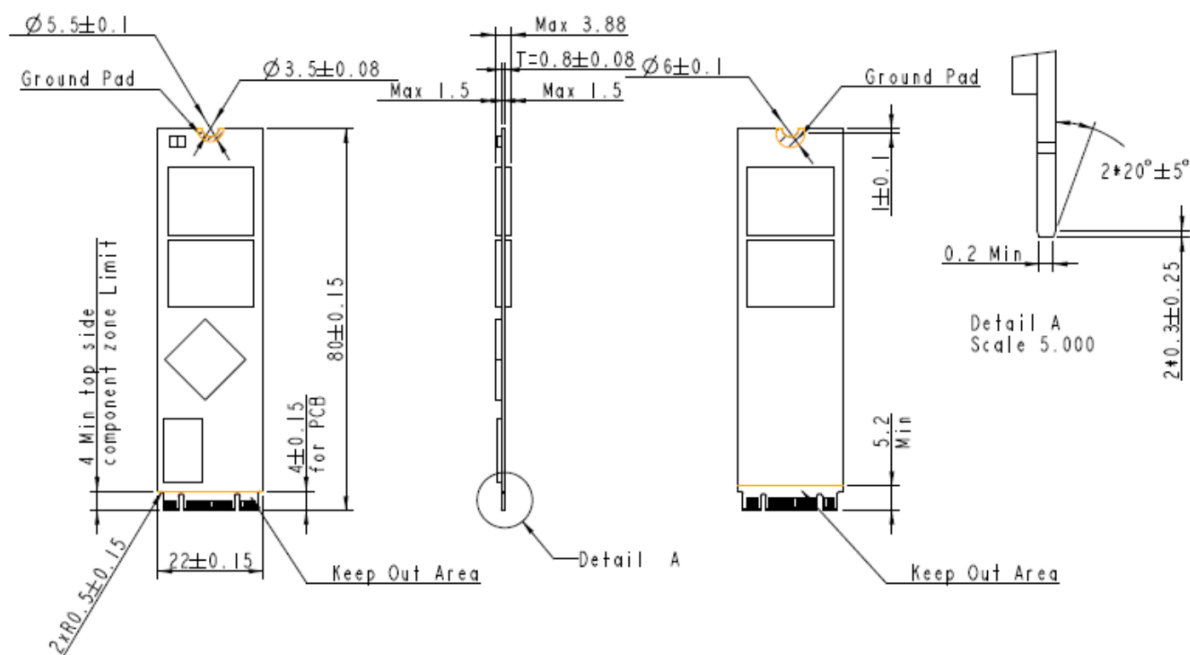
Single Side



Unit: mm

Mechanical Specification

Double Side



Unit: mm

For more information,
contact your Apacer representative

Global Presence

Taiwan (Headquarters)
Apacer Technology Inc.
Tel: +886-2-2267-8000
Fax: +886-2-2267-2261

Europe
Apacer Technology B.V.
Tel: +31-40-267-0000
Fax: +31-40-290-0686

U.S.A.
Apacer Memory America, Inc.
Tel: +1-408-518-8699
Fax: 1-510-249-9551

China
Apacer Electronic(Shanghai)
Co., Ltd.
Tel: +86-21-6228-9939

Japan
Apacer Technology Corp.
Tel: +81-3-5419-2668
Fax: +81-3-5419-0018

India
Apacer Technologies Pvt. Ltd.
Tel: +91-80-41529061~3
Fax: +91-80-41700215