

Apacer

The Most **Reliable**
Storage For Industries

PT220-M280



PT220-M280

Overview

Apacer PT220-M280 is the fastest SSD designed as M.2 2280 mechanical dimensions, providing full compliance with PCIe Gen3 x4 interface and NVMe 1.3 specifications.

Built with a powerful PCIe controller, PT220-M280 delivers outstanding performance in data transfer, reaching up to 222,000/280,000 and 2,470/1,785 MB/s in IOPS and sequential read/write. The extreme thin and light form factor makes PT220-M280 the ideal choice for mobile computing systems, which appears to be the trend in near future.

In terms of security, data integrity can be assured at multiple points in the path to enable reliable delivery of data transfers with End-to-End Data Protection. Regarding reliability, PT220-M280 is built with a powerful PCIe controller that supports on-the-module ECC as well as efficient wear leveling scheme. In terms of power efficiency, PT220-M280 is compliant with PCIe Gen3 x4 interface standard so that it can operate on power management modes, which greatly save on power consumption.



Feature

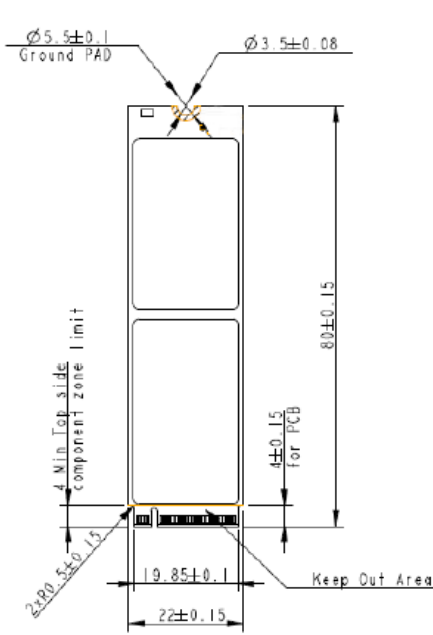
- Adopts advanced LDPC ECC engine with 3D NAND flash memory to improve reliability
- Global Wear Leveling
- Flash bad-block management
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- DataRAID™
- DataDefender™
- TRIM support
- Hyper Cache Technology
- NVMe Secure Erase

Specifications

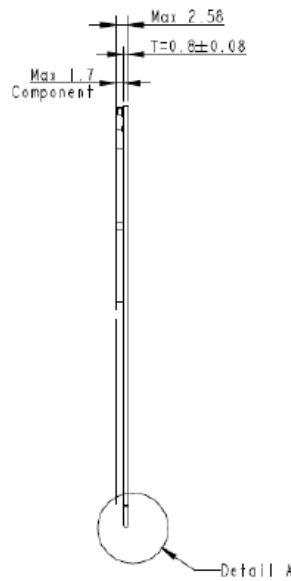
Model	PT220-M280
Interface	PCIe Gen3 x4
Connector	M.2 M Key
Form Factor	M.2 2280 single side, M Key: 128GB M.2 2280 double side, M Key: 256GB, 512GB, 1TB
NAND Flash Type	3D TLC
Capacity	128GB ~ 1TB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 2470
Sustained Write Performance (MB/sec)	Up to 1785
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	222K
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-
Storage Temperature (°C)	-55 ~ + 100
Thermal Sensor	Yes
Shock	Operation: 50G/11ms (compliant with MIL-STD-202G) Non-operation: 1500G/0.5ms (compliant with MIL-STD-883K)
Vibration	Operation: 7.69 Grms, 20~2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 4.02 Grms, 15~2000 Hz/random (compliant with MIL-STD-810G)
Operating Voltage	3.3V ±5%
Power Consumption	Active mode: 1230 mA / Idle mode: 240 mA
Dimension (L x W x H)	Single side: 22.00 x 80.00 x 2.58 mm (max) Double side: 22.00 x 80.00 x 4.08 mm (max)
MTBF (hours)	>3,000,000

Mechanical Specification

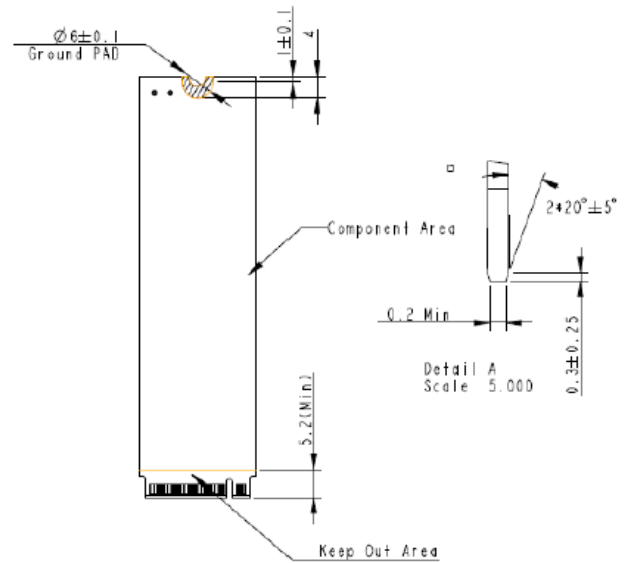
Single Side



Top side

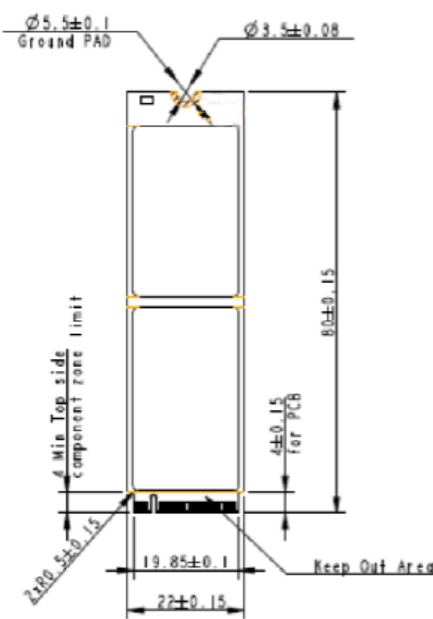


Detail A

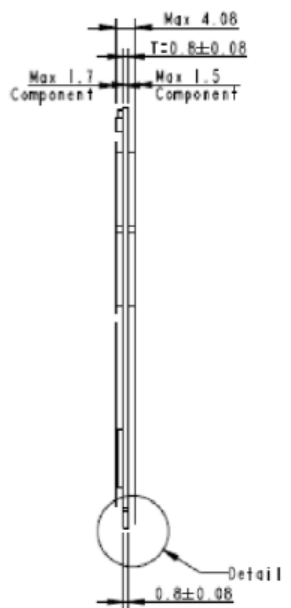


Bottom side

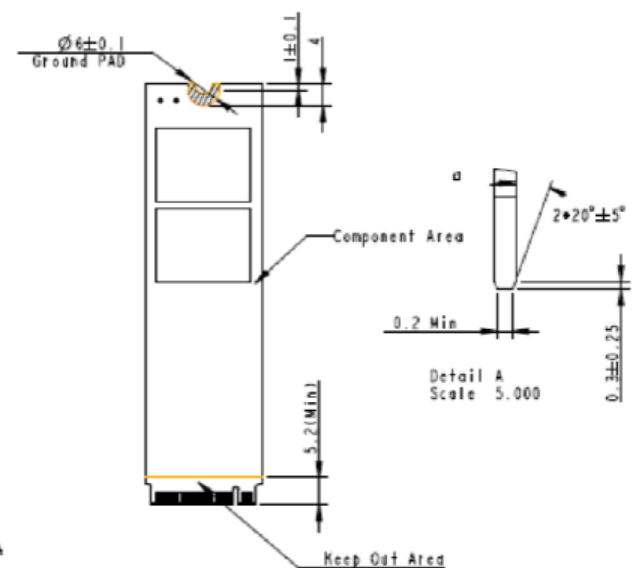
Double Side



Top side



Detail A



Bottom side

**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

Shanghai
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