

Apacer

The Most **Reliable**
Storage For Industries

PV210-M280



PV210-M280

Overview

Apacer PV210-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, PV210-M280 delivers outstanding performance in data transfer, reaching up to 565,000/521,000 and 3,130/2,620 MB/s in IOPS and sequential read/write. The extreme thin and light form factor makes PV210-M280 the ideal choice for mobile computing systems, which appears to be the trend in near future.

In terms of security, Advanced Encryption Standard (AES) and Trusted Computing Group (TCG) Opal (optional) ensure data security and provide users with a peace of mind knowing their data is safeguarded against unauthorized use at all times. Furthermore, with End-to-End Data Protection, data integrity can be assured at multiple points in the path to enable reliable delivery of data transfers. Regarding reliability, PV210-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, PV210-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

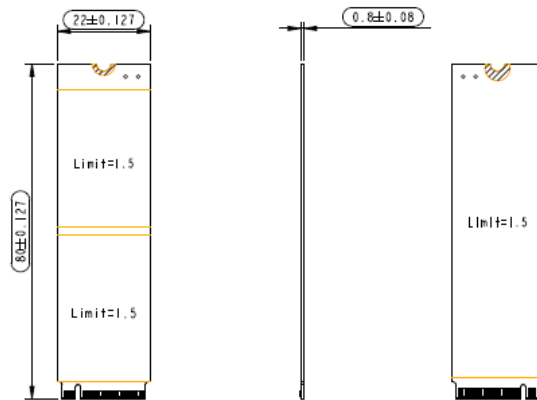
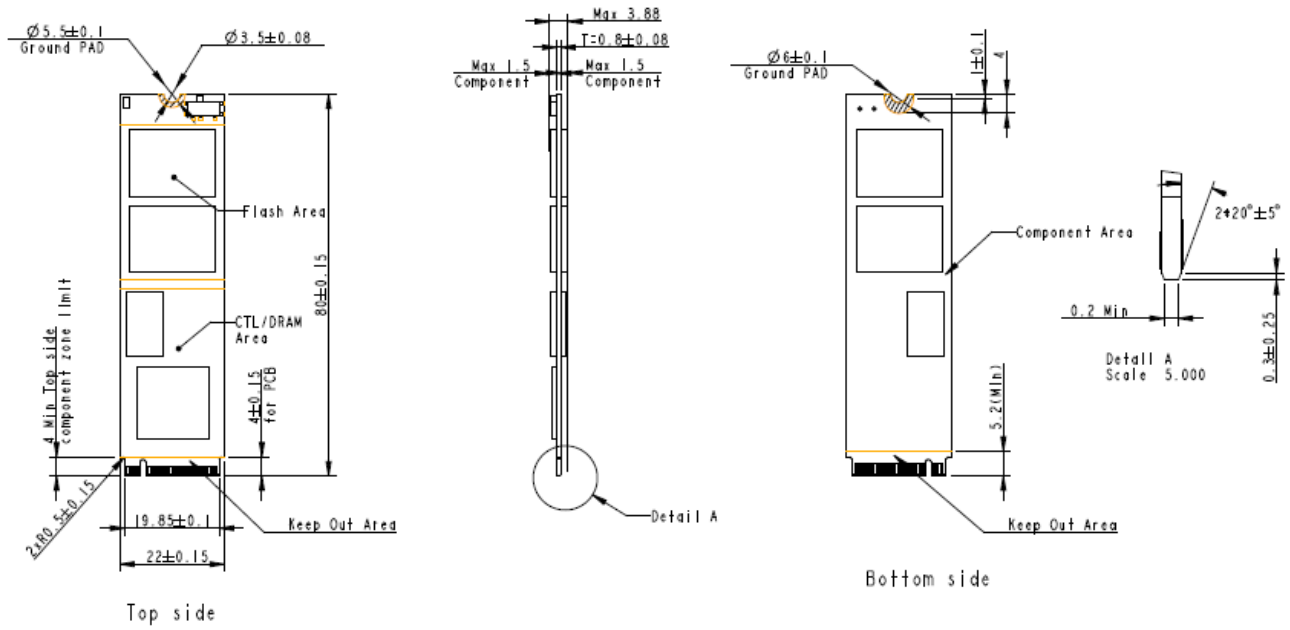
- Adopts advanced LDPC ECC engine with 3D NAND flash memory to improve reliability
- CoreGlacier™ heatsink technology
- Global Wear Leveling
- Flash bad-block management
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- Power Failure Management
- TRIM support
- Hyper Cache Technology
- Over-Provisioning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

Specifications

Model	PV210-M280
Interface	PCIe Gen3 x4
Connector	M.2 M Key
Form Factor	M.2 2280 Double side, M key: 240/480/960/1920GB
NAND Flash Type	3D TLC
Capacity	240GB~1920GB
External DRAM	Yes
Sustained Read Performance (MB/sec)	Up to 3130
Sustained Write Performance (MB/sec)	Up to 2620
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	521K
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 100
Thermal Sensor	Yes
Shock	Operation: Acceleration, 50(G)/11(ms)/half sine (compliant with MIL-STD-202G) Non-operation: Acceleration, 1,500(G)/0.5(ms)/half sine (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: 1850 mA / Idle mode: 255 mA
Dimension (L x W x H)	Double side: 22.00 x 80.00 x 3.88 (mm) CoreGlacier: 22.00 x 80.00 x 4.08 (max) (mm)
MTBF (hours)	>3,000,000

Mechanical Specification

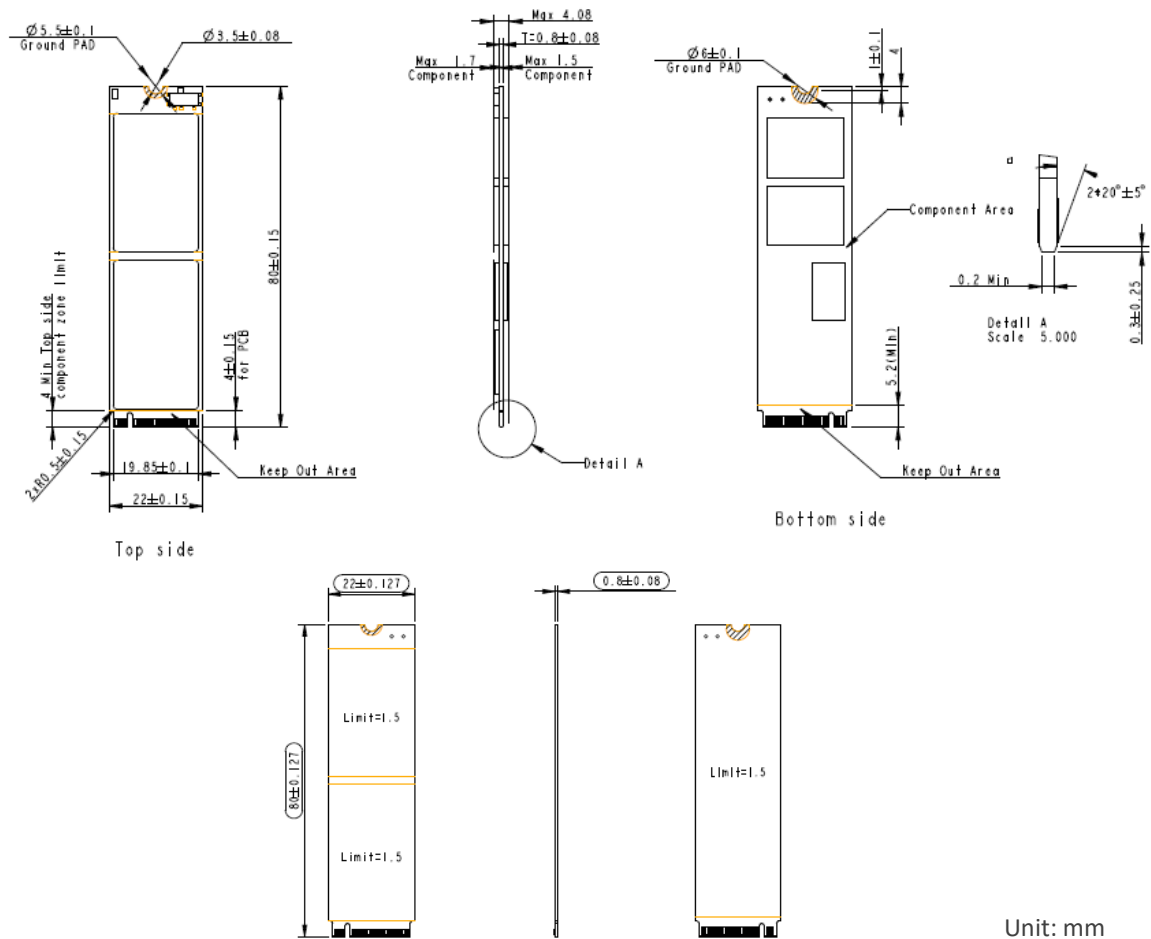
Double Side



Unit: mm

Mechanical Specification

CoreGlacier™



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