

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 553,000/543,000 and 3,540/2,675 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

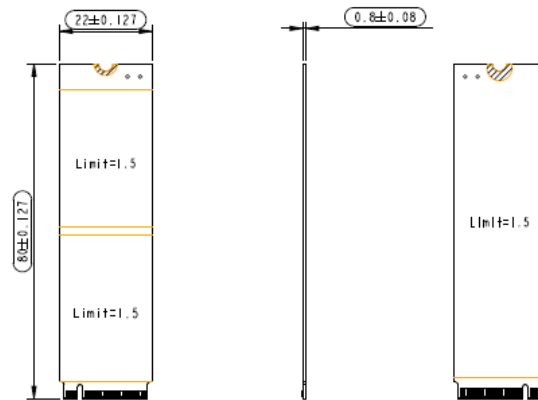
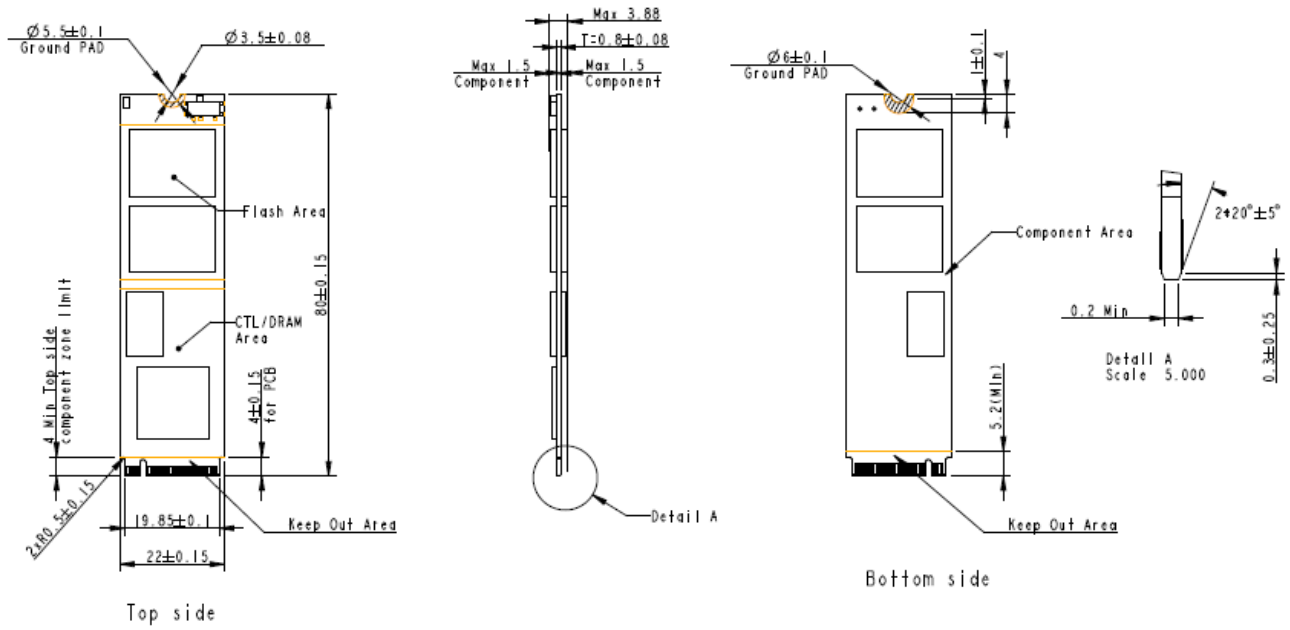
- Adopts advanced LDPC ECC engine with 3D NAND flash memory to improve reliability
- CoreGlacier™ heatsink technology
- Global Wear Leveling
- Flash bad-block management
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- Power Failure Management
- TRIM support
- Hyper Cache Technology
- Over-Provisioning
- 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: 480/960/1920GB |
| NAND Flash Type | 3D TLC |
| Capacity | 480GB~1920GB |
| External DRAM | Yes |
| Sustained Read Performance (MB/sec) | Up to 3540 |
| Sustained Write Performance (MB/sec) | Up to 2675 |
| ECC Engine | Low-Density Parity-Check (LDPC) Code |
| IOPS (4K Random Write) | 543K |
| 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: 1895 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

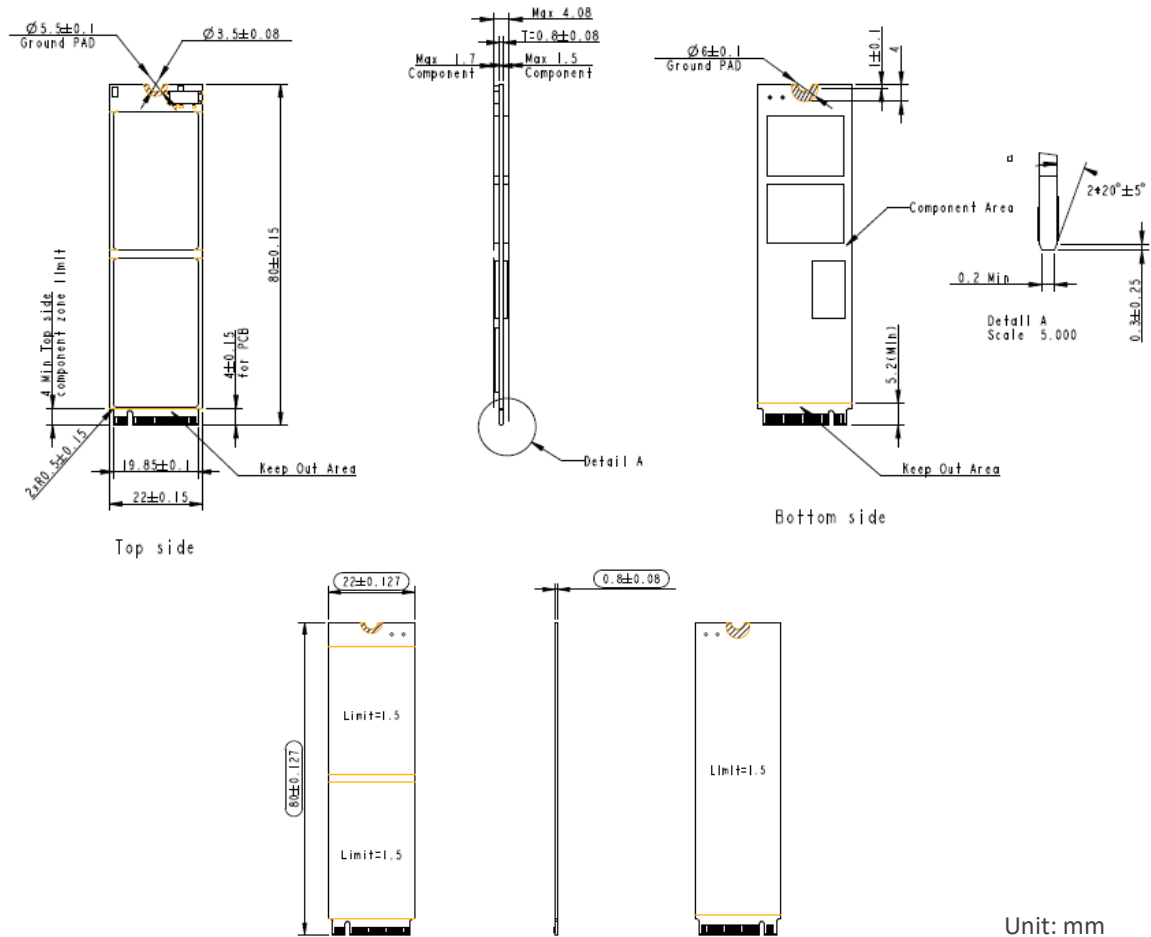
Double Side



Unit: mm

Mechanical Specification

CoreGlacier™



For more information,
contact your Apacer representative

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