

# Apacer

The Most **Reliable**  
Storage For Industries

**PV310-M280**



## PV310-M280

### Overview

Apacer PV310-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, PV310-M280 delivers outstanding performance in data transfer, reaching up to 345,000/172,000 and 2,660/2,260 MB/s in IOPS and sequential read/write. Even for highly intensive applications, with End-to-End Data Protection technology, it ensures integrity and correctness of data transmission between the host and the NAND storage area, and greatly improves data reliability.



### Feature

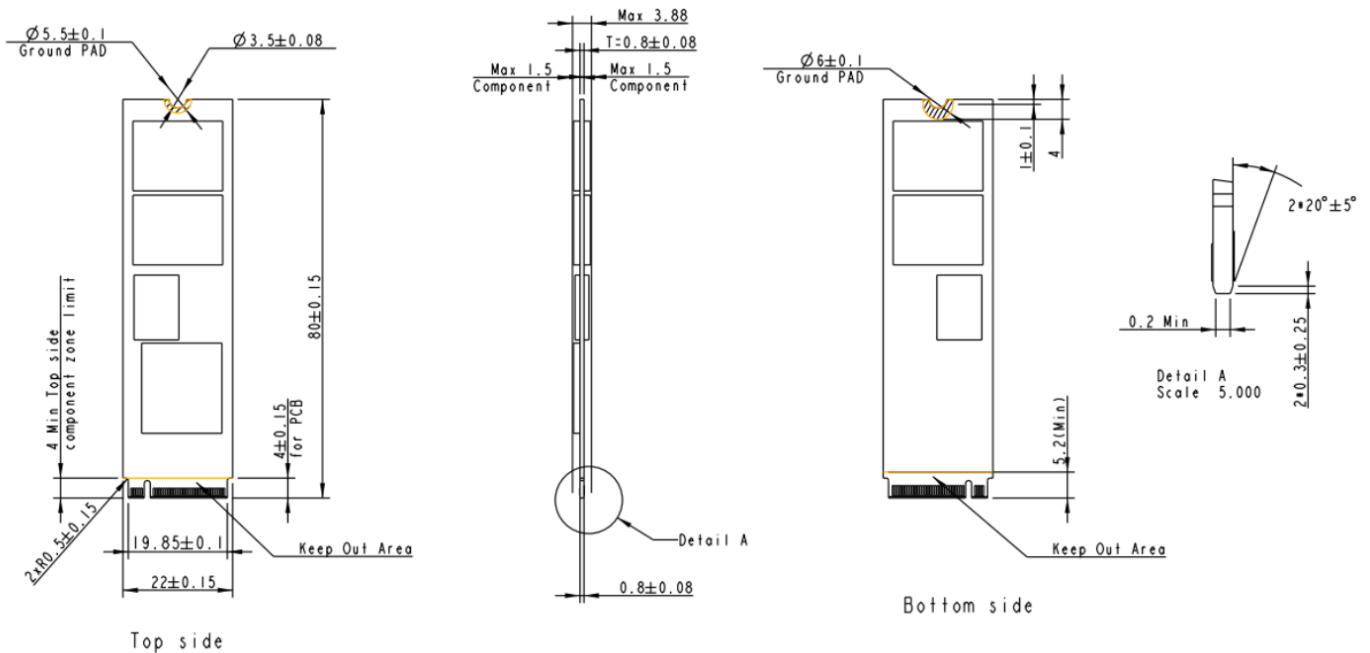
- Superb performance and low latency
- Support LDPC ECC
- DataRAID™
- Global Wear Leveling
- Flash bad-block management
- Hyper Cache Technology
- Thermal Management
- End-to-End Data Protection
- Over-Provisioning
- Supports SSDWidget S.M.A.R.T function

## Specifications

<b>Model</b>	PV310-M280
<b>Interface</b>	PCIe Gen3 x4
<b>Connector</b>	M.2 M key
<b>Form Factor</b>	M.2 2280-D5-M
<b>NAND Flash Type</b>	3D TLC
<b>Capacity</b>	240GB~960GB
<b>External DRAM</b>	Yes
<b>Sustained Read Performance (MB/sec)</b>	Up to 2660
<b>Sustained Write Performance (MB/sec)</b>	Up to 2260
<b>ECC Engine</b>	Low-Density Parity-Check (LDPC) Code
<b>IOPS (4K Random Write)</b>	172K
<b>Standard Operating Temperature ( °C )</b>	0 ~ + 70
<b>Extended Operating Temperature ( °C )</b>	-40 ~ + 85
<b>Storage Temperature ( °C )</b>	-40 to 100
<b>Thermal Sensor</b>	Yes
<b>Shock</b>	Operation: 50G, 11ms Non-operation: 1500G, 0.5ms
<b>Vibration</b>	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)
<b>Operating Voltage</b>	3.3V ±5%
<b>Power Consumption</b>	Active mode: 1,725 mA / Idle mode: 250 mA
<b>Dimension (L x W x H )</b>	Double side: 80.00 mm x 22.00 mm x 3.88 mm
<b>MTBF (hours)</b>	>1,000,000

## Mechanical Specification

### Double Side



Unit: mm

For more information,  
contact your Apacer representative

### Global Presence

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