

Apacer

The Most **Reliable** Storage For Industries

PV910-M280



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PV910-M280

Overview

Apacer PV910-M280 (M.2 2280) is the next generation modularized Solid State Drive (SSD) with the shape of all new M.2 form factor, aimed to be the more suitable for mobile and compact computers with standard width at only 22.00 mm. PV910-M280 appears in M.2 2280 mechanical dimensions and is believed to be the leading add-in storage solution for future host computing systems.

The M.2 SSD is designed with PCIe-based connector pinouts, providing full compliance with the latest PCIe Gen3 x2 interface specifications. Aside from PCIe compliance, PV910-M280 delivers exceptional performance and power efficiency. On the other hand, the extreme thin and light form factor makes PV910-M280 the ideal choice for mobile computing systems, which appears to be the trend in near future.

Regarding reliability, PV910-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, PV910-M280 is compliant with PCIe Gen3 x2 interface standard so that it can operate on power management modes, which greatly save on power consumption.

Feature

- Low-Density Parity-Check (LDPC) Code
- Global Wear Leveling
- Flash bad-block management
- Flash Translation Layer: Page Mapping
- Power Failure Management
- S.M.A.R.T.
- TRIM
- Hyper Cache Technology
- Over-Provisioning
- SMART Read Refresh™
- NVMe Secure Erase



Specifications

Model	PV910-M280
Interface	PCIe Gen3 x2
Connector	M.2 B & M key
Form Factor	M.2 2280
NAND Flash Type	3D TLC
Capacity	120GB~960GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 1775
Sustained Write Performance (MB/sec)	Up to 1295
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	130K
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 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/sine (compliant with MIL-STD-810G)
Operating Voltage	3.3 V ± 5%
Power Consumption	Active mode: 755 mA / Idle mode: 145 mA
Dimension (L x W x H)	Single side: 22.00 x 80.00 x 2.38 (mm) Double side: 22.00 x 80.00 x 3.88 (mm)
MTBF (hours)	>3,000,000

Mechanical Specification

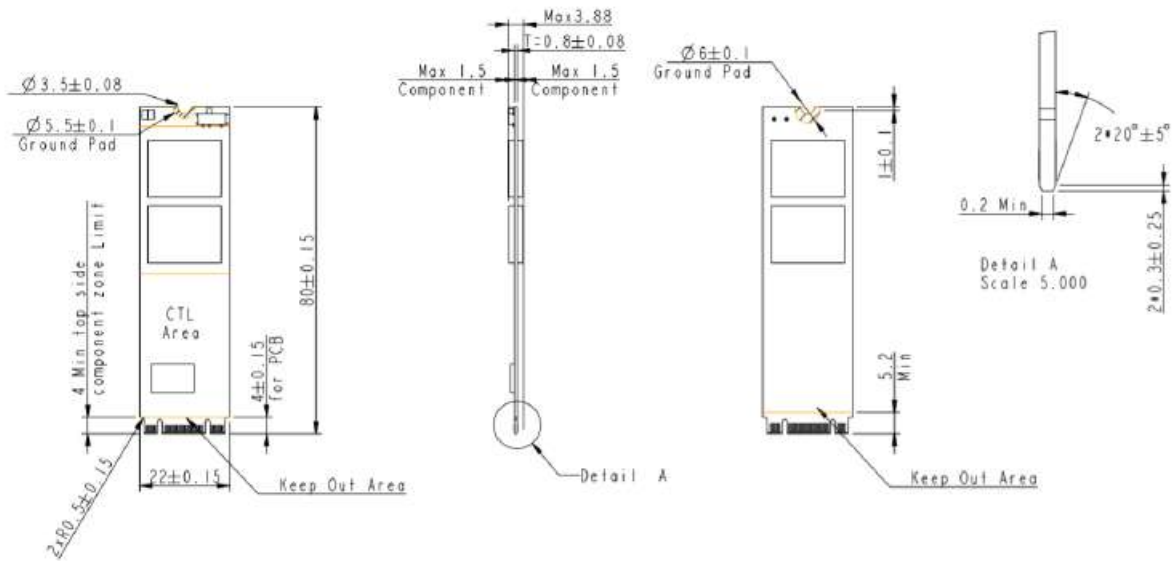


Figure 10-2 Dimensions – Double Side

Unit: mm

For more information,
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