Apacer

The Most **Reliable**
Storage For Industries

PV930-M280

PV930-M280

Overview

Apacer PV930-M280 is the fastest SSD designed to M.2 2280 mechanical dimensions, providing full compliance with PCIe Gen4 x4 interface and NVMe 1.4 specifications.

Built with a powerful PCIe controller, PV930-M280 delivers outstanding performance in data transfer, reaching up to 1,062,000/914,000 and 7,130/6,105 MB/s in IOPS and sequential read/write. The extreme thin and light form factor makes PV930-M280 the ideal choice for mobile computing systems, which appears to be the trend in the near future.

Regarding reliability, PV930-M280 supports on-the-module ECC as well as an efficient Wear Leveling scheme. Furthermore, End-to-End Data Protection guarantees data integrity at multiple points in the path to enable reliable delivery of data transfers. Security-wise, Advanced Encryption Standard (AES) ensures data security and provides users with a peace of mind knowing their data is safeguarded. PV930-M280 is compliant with the PCIe Gen4 x4 interface standard so that it can operate in power management modes, which greatly saves on power consumption.
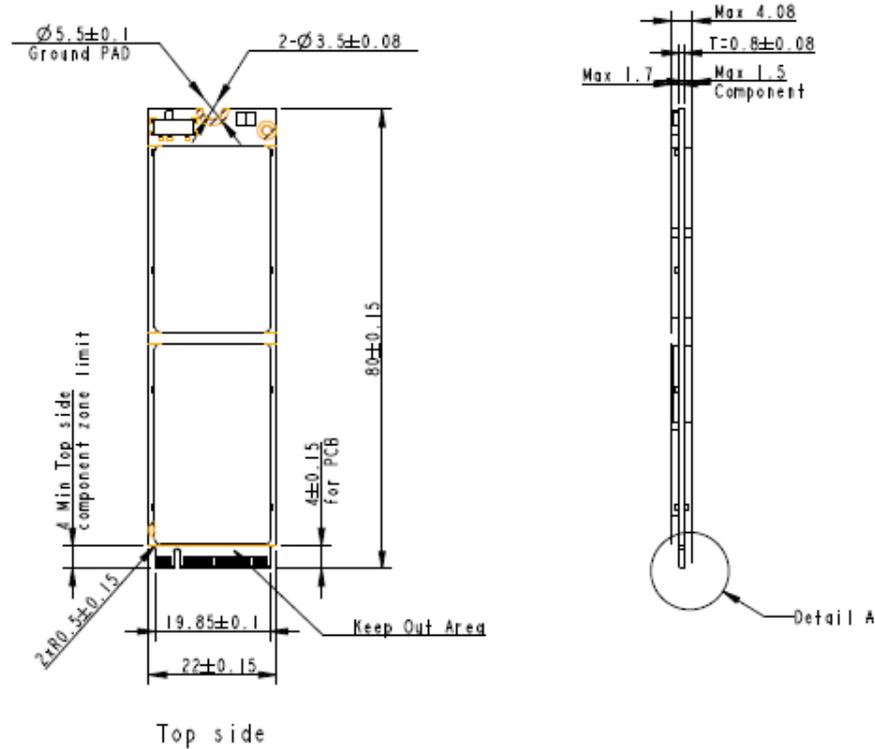
Feature

· Low-Density Parity-Check (LDPC) Code

· Global Wear Leveling

· Flash bad-block management

· Flash Translation Layer: Page Mapping

· DataDefender™

· S.M.A.R.T.

· TRIM

· Hyper Cache Technology

· Over-Provisioning

· Smart Read Refresh™

· Signed Firmware

Specifications

Model	PV930-M280
Interface	PCIe Gen4 x4
Connector	M.2 M Key
Form Factor	M.2 2280
NAND Flash Type	3D TLC
Capacity	480GB~1920GB
External DRAM	Yes
Sustained Read Performance (MB/sec)	Up to 7130
Sustained Write Performance (MB/sec)	Up to 6105
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	914K
Standard Operating Temperature (°C)	0 ~ + 70
Storage Temperature (°C)	-40 ~ + 100
H/W Write Protect	Yes
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: 2785 mA / Idle mode: 565 mA
Dimension (L x W x H)	22.00 x 80.00 x 4.08 (max) (mm)
MTBF (hours)	>3,000,000

Mechanical Specification

Unit: mm

For more information,
contact your Apacer representative