

The Most **Reliable** Storage For Industries

PV920-μSSD



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Overview

Apacer PCIe BGA SSD PV920-μSSD (M.2 1620) presents a revolutionary breakthrough of NAND Flash storage technology. This micro sized SSD delivers all the technological benefits in NAND based storage solution with ultra speed PCIe Gen3 x4 interface in an embedded BGA form factor, compatible with JEDEC PCIe M.2 1620. Formed in a size of an IC chip, the performance level can reach up to 1400 MB/s for read and 1200 MB/s for write.

Apacer PCIe BGA SSD - PV920-μSSD boasts micro size, high-speed performance, low power consumption, shock resistance, high stability and reliability. PV920-μSSD will be adopted by many high-end industrial and 5G high-speed applications, including the Industrial IoT, cloud computing, servers and networking, defense, gaming, and high-performance computing.



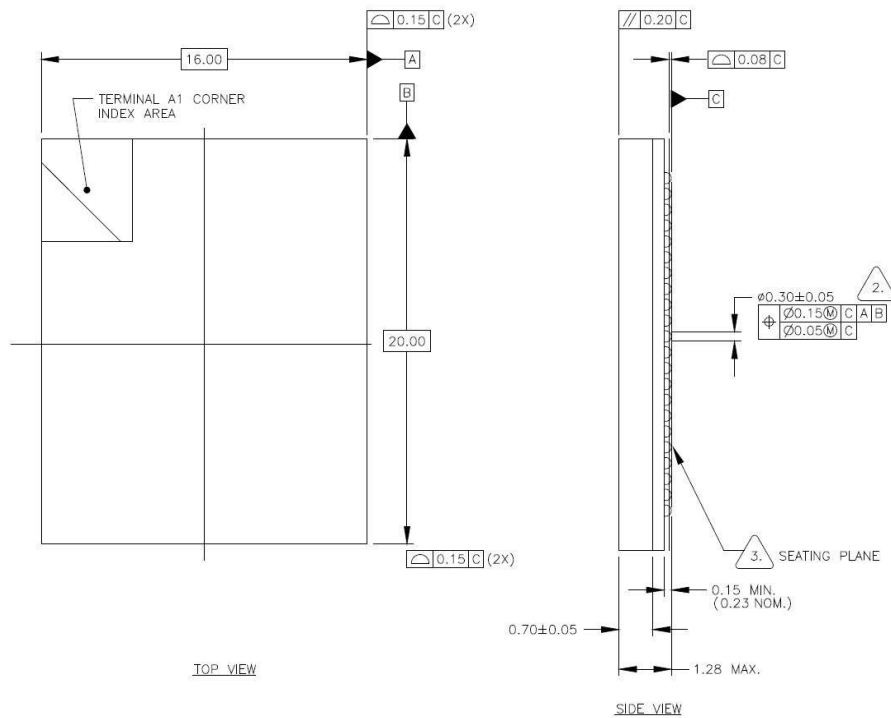
Feature

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

Specifications

Model	PV920-μSSD
Interface	PCIe Gen3 x4
Connector	BGA 291 Balls
Form Factor	PCIe M.2 1620
NAND Flash Type	3D TLC
Capacity	120GB~960GB
Sustained Read Performance (MB/sec)	Up to 1400
Sustained Write Performance (MB/sec)	Up to 1200
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	177K
Standard Operating Temperature (°C)	-25 ~ + 85
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 85
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: 4.02Grms, 15~2000 Hz/sine (compliant with MIL-STD-810G)
Operating Voltage	3.3V ± 5% 1.8V ± 5% 1.2V ± 5%
Power Consumption	Active mode: 570 mA & Idle mode: 145 mA
Dimension (L x W x H)	16 x 20 x 1.28 (mm)
MTBF (hours)	>3,000,000

Mechanical Specification



Unit: mm

For more information,
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