

Apacer

The Most **Reliable**
Storage For Industries

SV24P-M280



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Overview

Apacer's SV24P-M280 is a well-balanced solid-state disk (SSD) drive with standard form factor and great performance. Designed in SATA 6 Gb/s interface, the SSD is able to deliver exceptional read/write speed, making it the ideal companion for heavy-loading industrial or server operations.

SV24P-M280 utilizes 3D NAND for higher capacity up to 1920GB and provides more power efficiency than 2D NAND. Appearing in M.2 2280 mechanical dimensions, SV24P-M280 is believed to be the leading add-in storage solution for future host computing systems.

Regarding reliability, SV24P-M280 is implemented with LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and increase data reliability. In addition, the drive comes with various implementations including powerful hardware ECC engine, power saving modes, Wear Leveling, flash block management, S.M.A.R.T., TRIM and CorePower.

In terms of security, Advanced Encryption Standard (AES) ensures data security and provides users with a peace of mind knowing their data is safeguarded. 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.



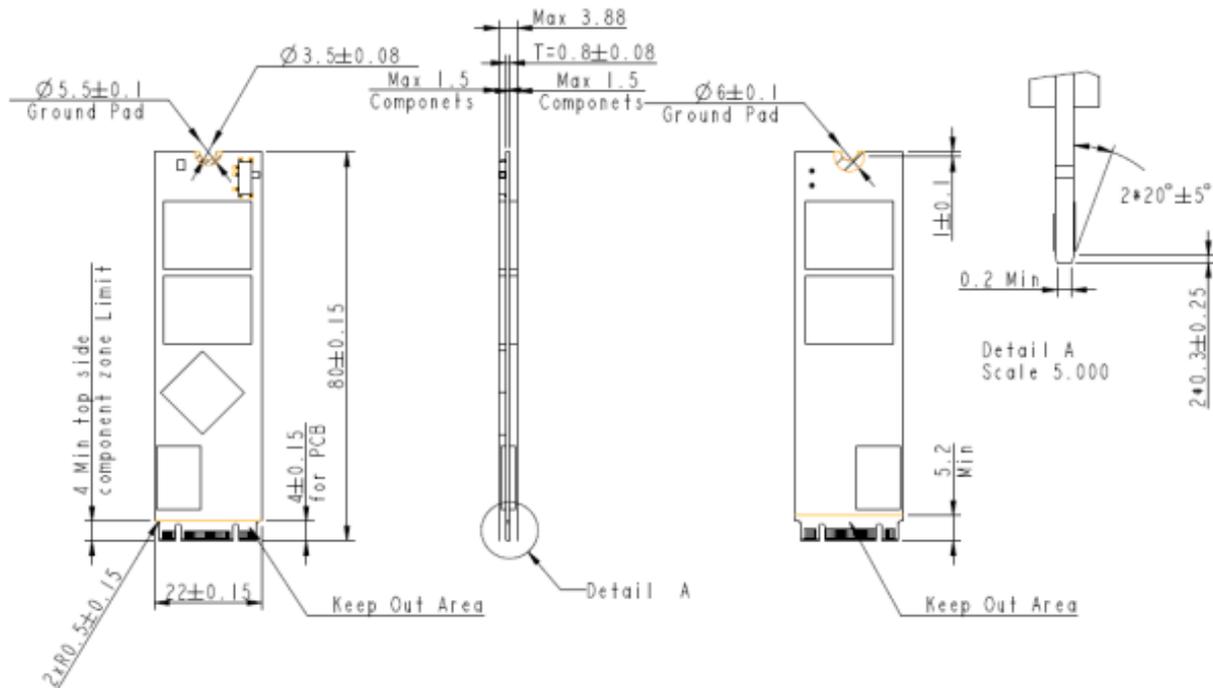
Feature

- 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
- Built-in ATA Secure Erase and S.M.A.R.T. Functions
- DEVSLP
- TRIM
- Hyper Cache Technology
- Over-Provisioning
- DataRAID™
- SMART Read Refresh™
- CorePower

Specifications

| | |
|--|--|
| Model | SV24P-M280 |
| Interface | SATA 3.2 (6Gb/s) |
| Connector | M.2 B & M key |
| Form Factor | M.2 2280-D5-B-M |
| NAND Flash Type | 3D TLC |
| Capacity | 120GB~1920GB |
| External DRAM | Yes |
| Sustained Read Performance (MB/sec) | Up to 560 |
| Sustained Write Performance (MB/sec) | Up to 495 |
| ECC Engine | Low-Density Parity-Check (LDPC) Code |
| IOPS (4K Random Write) | 84K |
| Standard Operating Temperature (°C) | 0 ~ + 70 |
| Extended Operating Temperature (°C) | -40 ~ + 85 |
| Storage Temperature (°C) | -55 ~ + 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: 640 mA / Idle mode: 90mA |
| Dimension (L x W x H) | 22.00 x 80.00 x 3.88 (mm) |
| MTBF (hours) | >3,000,000 |

Mechanical Specification



Unit: mm

For more information,
contact your Apacer representative

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