

# Apacer

The Most **Reliable**  
Storage For Industries

SV25C-M280



## SV25C-M280

### Overview

Apacer's SV25C-M280 is a well-balanced solid-state disk (SSD) drive with standard form factor and great performance. Designed in SATA 6.0 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.



SV25C-M280 utilizes 3D NAND for higher capacity up to 960GB and provides more power efficiency than 2D NAND. Appearing in M.2 2280 mechanical dimensions, SV25C-M280 is believed to be the leading add-in storage solution for future host computing systems.

Regarding reliability, SV25C-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 DataDefender™.

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

## SV25C-M280

### Ensures Highly Efficient System Operation with DBS Cloud Edition

Apacer SV25C cloud series SSDs are equipped with Double-barreled Solution: Cloud Edition. Double-barreled Solution: Cloud Edition is a solution designed to monitor the typical pain points of an IoT edge device network. DBS Cloud Edition automatically collects data related to SSD temperatures, unexpected power outages, remaining lifespan, and operating status, and instantly transmits the data to the back-end management platform. Users can then observe this data as it comes in, thanks to the intuitive dashboard interface.



In the event of an abnormality, the system can also send messages to network administrators through Email, LINE, WeChat, and other communication platforms, so that admins can react to critical events in real-time even if they aren't on location. The alerts can even be color-coded to allow admins to determine the severity of a problem at a glance.

### Existing Integrated Remote Device Management Systems

Apacer has also collaborated with Advantech and Allxon to develop the DBS Cloud Edition. It offers customers greater choice in deploying and remote device management system and adds flexibility while retaining seamless integration to significantly reduce customer deployment time and costs.

## Supports CoreSnapshot technology, data recovery is completed in one second

In addition to convenient remote management functions, the Apacer SV25C cloud series starts from the Disaster Recovery level and integrates Apacer CoreSnapshot technology, which can provide an SSD backup and recovery mechanism in real time when key data is lost or system crashes occur. Only one second is required for the system to return to normal operation, greatly reducing the waiting time for troubleshooting and system downtime.

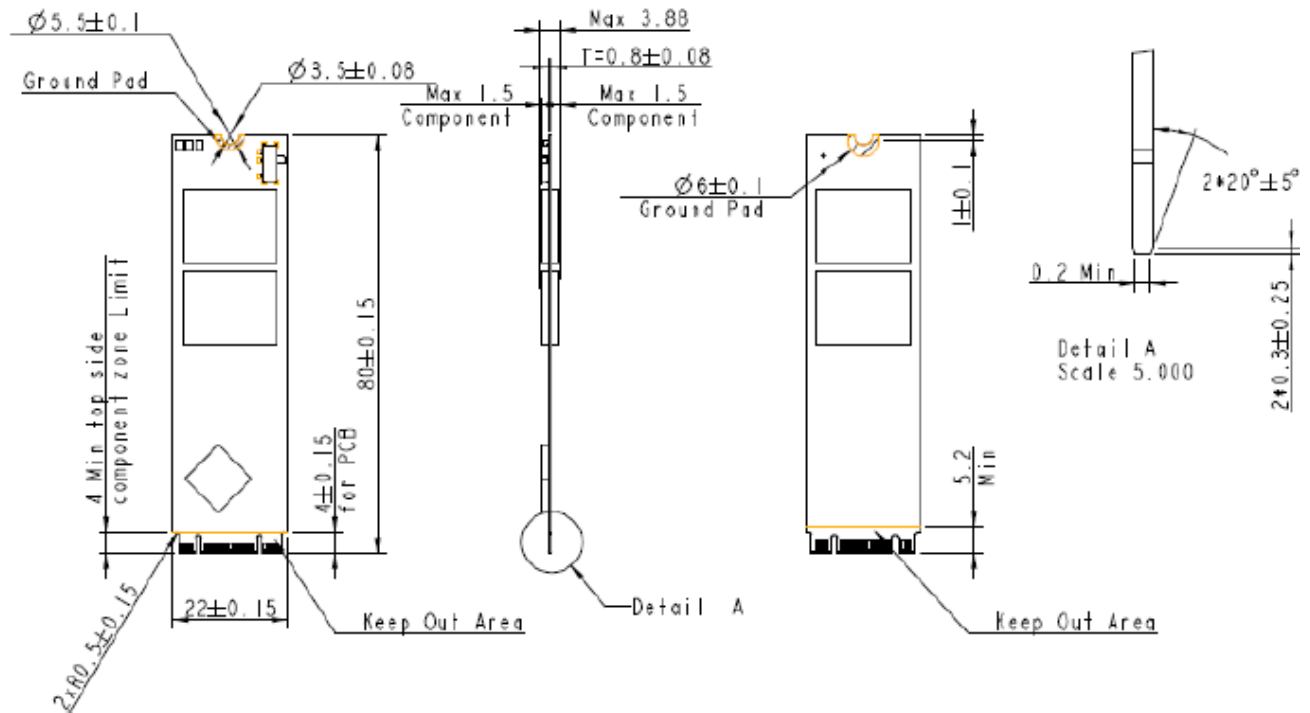
### Feature

- 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.
- DataDefender™
- Device Sleep
- ATA Secure Erase
- TRIM
- Hyper Cache Technology
- Over-Provisioning
- DataRAID™
- SMART Read Refresh™
- Double-barreled Solution Cloud Edition

## Specifications

<b>Model</b>	SV25C-M280
<b>Interface</b>	SATA 3.2 (6Gb/s)
<b>Connector</b>	M.2 B & M key
<b>Form Factor</b>	M.2 2280-D5-B-M
<b>NAND Flash Type</b>	3D TLC
<b>Capacity</b>	30GB~960GB
<b>External DRAM</b>	No
<b>Sustained Read Performance (MB/sec)</b>	Up to 560
<b>Sustained Write Performance (MB/sec)</b>	Up to 520
<b>ECC Engine</b>	Low-Density Parity-Check (LDPC) Code
<b>IOPs (4K Random Write)</b>	73K
<b>Standard Operating Temperature ( °C )</b>	0 ~ + 70
<b>Extended Operating Temperature ( °C )</b>	-40 ~ + 85
<b>Storage Temperature ( °C )</b>	-40 ~ + 100
<b>Thermal Sensor</b>	Yes
<b>Shock</b>	Operation: 50G/11ms Non-operation: 1500G/0.5ms (compliant with MIL-STD-883K)
<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>	3.3 V ± 5%
<b>Power Consumption</b>	Active mode:455 mA / Idle mode: 80 mA
<b>Dimension (L x W x H)</b>	Single side: 80.00 x 22.00 x 2.38 (mm) Double side: 80.00 x 22.00 x 3.88 (mm)
<b>MTBF (hours)</b>	>3,000,000

## Mechanical Specification



Unit: mm

For more information,  
contact your Apacer representative

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