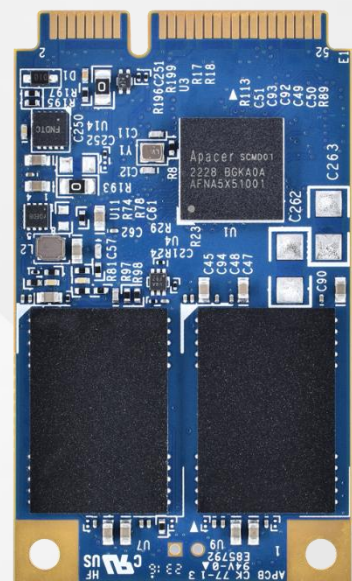


## The Most **Reliable** Storage For Industries

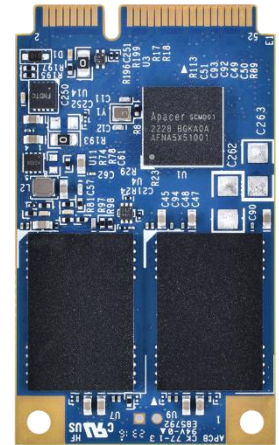
SV25P-300



### Overview

Apacer's SV25P-300 is a well-balanced solid-state disk (SSD) drive with a standard form factor and great performance. Designed with a SATA 6 Gb/s interface, SV25P-300 fully complies with the latest SATA Revision 3.2 interface specifications and delivers exceptional performance, making it the ideal companion for heavy-loading industrial or server operations.

Utilizing 3D NAND for higher capacities up to 1920GB and providing superior power efficiency compared to 2D NAND, SV25P-300 is equipped with a robust SATA controller supporting on-the-module ECC and an efficient wear-leveling scheme. It also incorporates an LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and enhance data reliability. With CorePower technology, SV25P-300 ensures data integrity and transmission stability even during unexpected power losses, thanks to a backup power supply featuring tantalum capacitors that allow ample time to transfer all cached data to NAND flash. Moreover, SV25P-300 includes a built-in thermal sensor to monitor SSD temperature via S.M.A.R.T commands, effectively preventing overheating issues.



For demanding applications, End-to-End Data Protection guarantees data integrity at multiple points along the transfer path, enabling reliable data delivery.

Security-wise, Advanced Encryption Standard (AES) ensures data security and provides users with peace of mind knowing their data is safeguarded against unauthorized use at all times. SV25P-300 also adopts the latest page mapping file translation layer and comes with various implementations including flash block management, TRIM, ATA secure erase, device sleep, Hyper Cache technology, over-provisioning, power saving modes, DataRAID, and SMART Read Refresh.

With exceptional performance, trustable reliability, and enhanced data protection, SV25P-300 is definitely the ideal storage or cache solution for a variety of applications ranging from industrial, imaging, computing to enterprise markets.

## Feature

- Low-Density Parity-Check (LDPC) Code
- Global Wear Leveling
- Flash bad-block management
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- Device Sleep
- ATA Secure Erase
- TRIM
- Hyper Cache Technology
- Over-provisioning
- SATA Power Management
- DataRAID
- SMART Read Refresh

## Specifications

<b>Model</b>	SV25P-300
<b>Interface</b>	SATA 3.2 (6Gb/s)
<b>Connector</b>	52-pin mSATA connector
<b>Form Factor</b>	JEDEC MO-300
<b>NAND Flash Type</b>	3D TLC
<b>Capacity</b>	120~1920GB
<b>External DRAM</b>	No
<b>Sustained Read Performance (MB/sec)</b>	Up to 560
<b>Sustained Write Performance (MB/sec)</b>	Up to 515
<b>ECC Engine</b>	Low-Density Parity-Check (LDPC) Code
<b>IOPs (4K Random Write)</b>	71K
<b>Standard Operating Temperature ( °C )</b>	0 ~ + 70
<b>Extended Operating Temperature ( °C )</b>	-40 ~ + 85
<b>Storage Temperature ( °C )</b>	-55 ~ + 100
<b>Thermal sensor</b>	Yes
<b>Shock</b>	Operation: 50G/11ms (compliant with MIL-STD-202G) 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/random (compliant with MIL-STD-810G)
<b>Operating Voltage</b>	3.3 V ± 5%
<b>Power Consumption</b>	Active mode: 395 mA / Idle mode: 70 mA
<b>Dimension (L x W x H )</b>	50.80 x 29.85 x 4.85, unit: mm
<b>MTBF (hours)</b>	>3,000,000

## Mechanical Specification

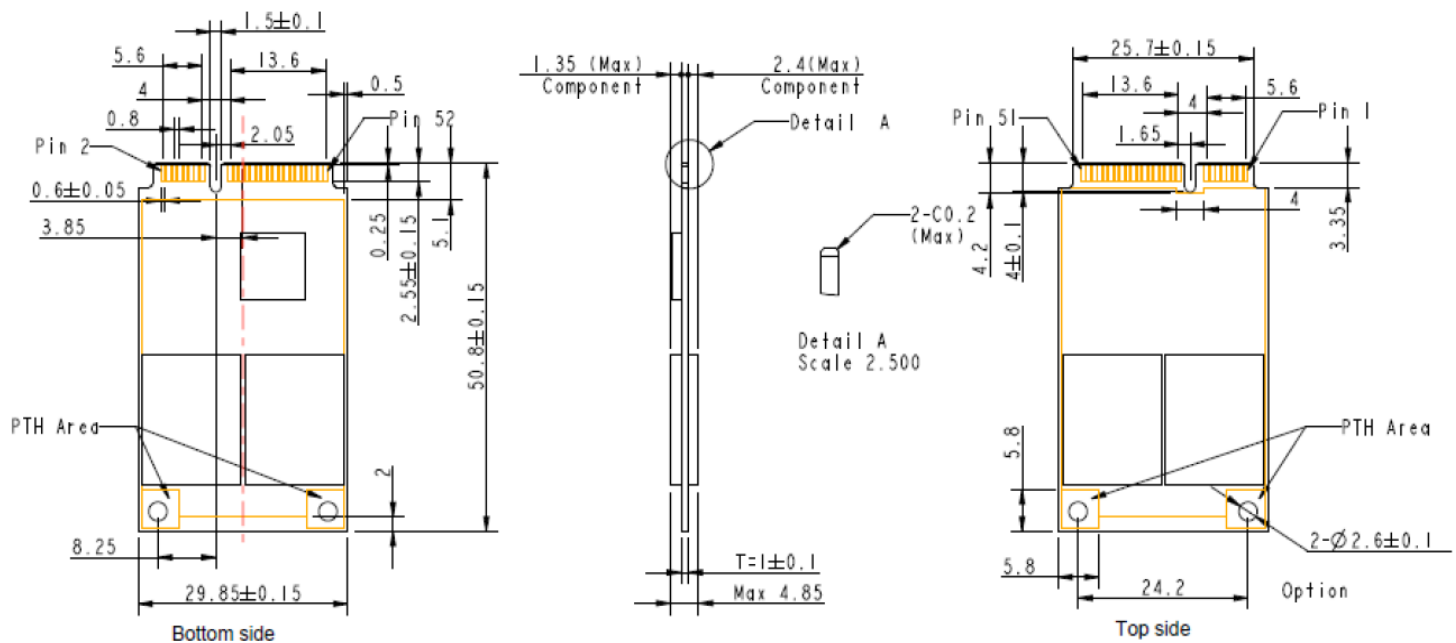


Figure 9-1 Physical Dimensions

Unit: mm

For more information,  
contact your Apacer representative

### Global Presence

Taiwan (Headquarters)  
Apacer Technology Inc.  
Tel: +886-2-2267-8000  
Fax: +886-2-2267-2261

Europe  
Apacer Technology B.V.  
Tel: +31-40-267-0000  
Fax: +31-40-290-0686

U.S.A.  
Apacer Memory America, Inc.  
Tel: +1-408-518-8699  
Fax: 1-510-249-9551

Shanghai  
Apacer Electronic(Shanghai)  
Co., Ltd.  
Tel: +86-21-6228-9939

Japan  
Apacer Technology Corp.  
Tel: +81-3-5419-2668  
Fax: +81-3-5419-0018

India  
Apacer Technologies Pvt. Ltd.  
Tel: +91-80-41529061~3  
Fax: +91-80-41700215