

Apacer

The Most **Reliable**
Storage For Industries

SV25V-25



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Overview

Apacer's SV25V-25 is a well-balanced solid-state disk (SSD) drive with standard form factor and great performance. Designed with SATA-based connector pinouts and in SATA 6 Gb/s interface, SV25V-25 provides full compliance with the latest SATA Revision 3.2 interface specifications and delivers exceptional performance up to 560/485 MB/s and 55,000/62,000 in sequential and IOPS read/write, making it the ideal companion for heavy-loading industrial or server operations.



SV25V-25 utilizes 3D NAND for higher capacity up to 960GB and provides more power efficiency than 2D NAND. Regarding reliability, SV25V-25 is built with a powerful SATA controller that supports on-the-module ECC as well as efficient wear leveling scheme and implemented with LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and increase data reliability.

Furthermore, SV25V-25 is equipped with a built-in thermal sensor to monitor the temperature of the SSD via S.M.A.R.T commands to prevent overheating. Operating under 6 Gb/s interface, SV25V-25 is provided with Apacer latest S.M.A.R.T. that is primarily oriented for the latest SATA interface SSD, for drive lifetime monitoring and analysis. For highly-intensive applications, End-to-End Data Protection ensures that data integrity can be assured 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 peace of mind knowing their data is safeguarded at all times. SV25V-25 also adopts the latest page mapping file translation layer and comes with various implementations including power saving modes, wear leveling, flash block management, S.M.A.R.T., TRIM, Hyper Cache technology, over-provisioning, DataDefender™ Plus, DataRAID™ and SMART Read Refresh™.

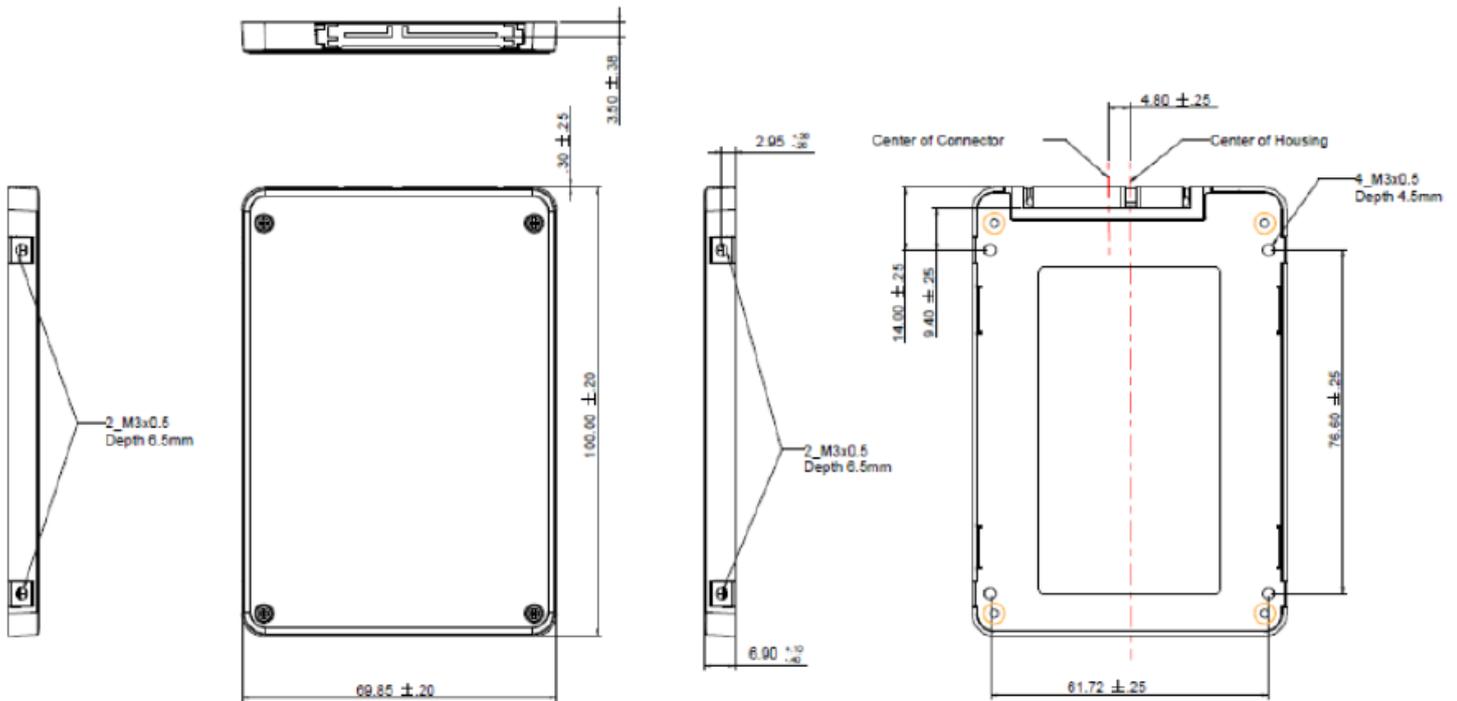
Features

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

Specifications

Model	SV25V-25
Interface	SATA 3.2 (6Gb/s)
Connector	(7+15) pin
Form Factor	2.5"
NAND Flash Type	3D TLC
Capacity	120GB~960GB
External DRAM	Yes
Sustained Read Performance (MB/sec)	Up to 560
Sustained Write Performance (MB/sec)	Up to 485
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	62K
Standard Operating Temperature (°C)	0 ~ + 70
Wide Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 100
Shock	Operation: 50(G)/11(ms) (compliant with MIL-STD-202G) Non-operation: 1,500(G)/0.5(ms) (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	5.0 V ± 10%
Power Consumption	Active mode: 260 mA / Idle mode: 50 mA
Dimension (L x W x H)	7mm:100.00 x 69.85 x 6.90mm
MTBF (hours)	>3,000,000

Mechanical Specification



Unit: mm

For more information,
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