

Apacer

The Most **Reliable**
Storage For Industries

SV250-25



SV250-25

Overview

Apacer's SV250-25 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, SV250-25 provides full compliance with the latest SATA Revision 3.2 interface specifications and delivers exceptional performance up to 560/500 MB/s and 52,000/68,000 in sequential and IOPS read/write, making it the ideal companion for heavy-loading industrial or server operations.

SV250-25 utilizes 3D NAND for higher capacity up to 1920GB and provides more power efficiency than 2D NAND. Regarding reliability, SV250-25 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, SV250-25 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, SV250-25 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) and Trusted Computing Group (TCG) Opal (optional) ensure data security and provide users with peace of mind knowing their data is safeguarded against unauthorized use at all times. SV250-25 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™, DataRAID™ and SMART Read Refresh™.



SV250-M280

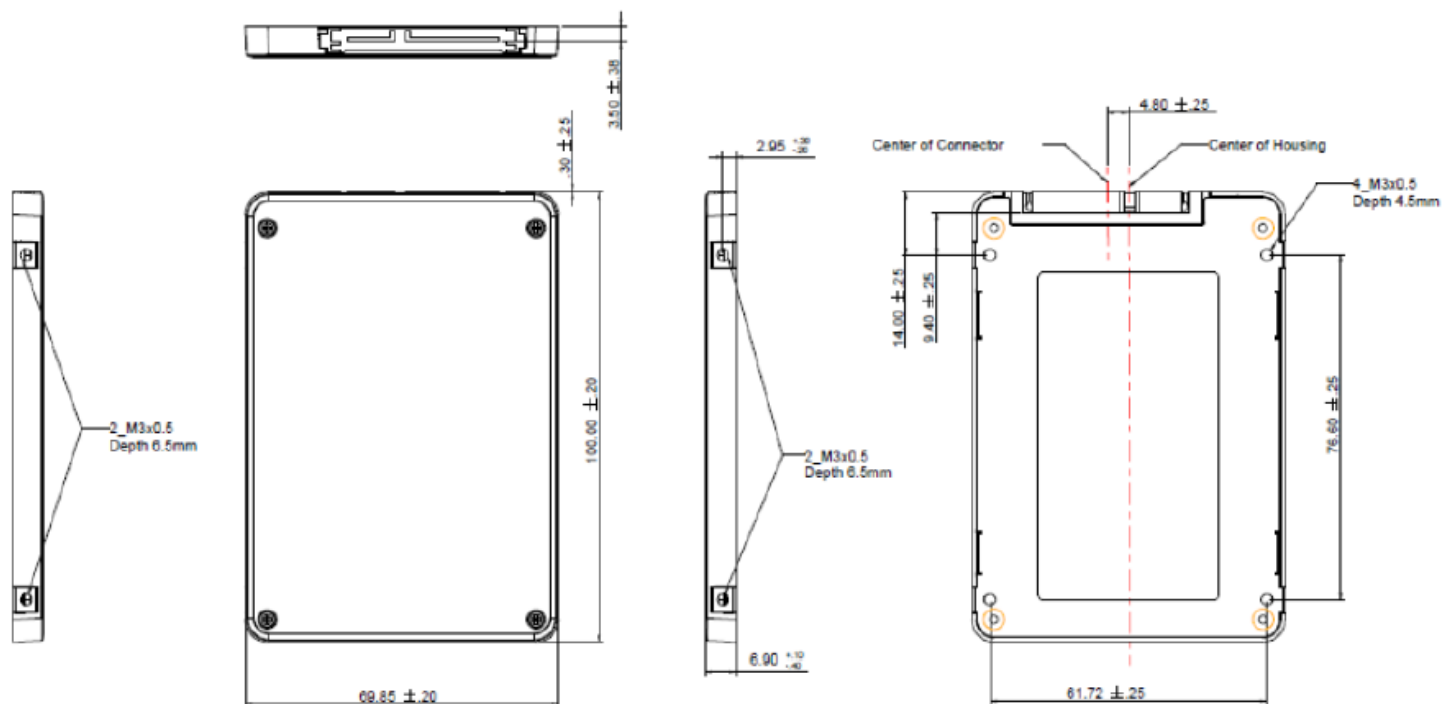
Feature

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

Specifications

Model	SV250-25
Interface	SATA 3.2 (6Gb/s)
Connector	(7+15) pin male
Form Factor	2.5"
NAND Flash Type	3D TLC
Capacity	120GB-1920GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 560
Sustained Write Performance (MB/sec)	Up to 500
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	68K
Standard Operating Temperature (°C)	0 ~ + 70
Wide 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/random (compliant with MIL-STD-810G)
Operating Voltage	5.0 V±5%
Power Consumption	Active mode: 265 mA / Idle mode: 45 mA
Dimension (L x W x H)	7mm:100.00 x 69.85 x 6.90 mm
MTBF (hours)	>3,000,000

Mechanical Specification



Unit: mm

For more information,
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