Apacer

The Most **Reliable**
Storage For Industries

SV250-25

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Overview

Apacer's SV250-25 is a well-balanced solid-state disk (SSD) drive with standard form factor and great performance. Designed in SATA 6.0 Gbps interface, the SSD is able to deliver exceptional read/write speed, making it the ideal companion for heavy-loading industrial or server operations.

SV250-25 utilizes 3D NAND and provides more power efficiency than 2D NAND. Regarding reliability, SV250-25 is implemented with LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and increase data reliability while reading raw data inside a flash chip. 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) and Trusted Computing Group (TCG) Opal ensure data security and provide users with a peace of mind knowing their data is safeguarded against unauthorized use at all times. 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.
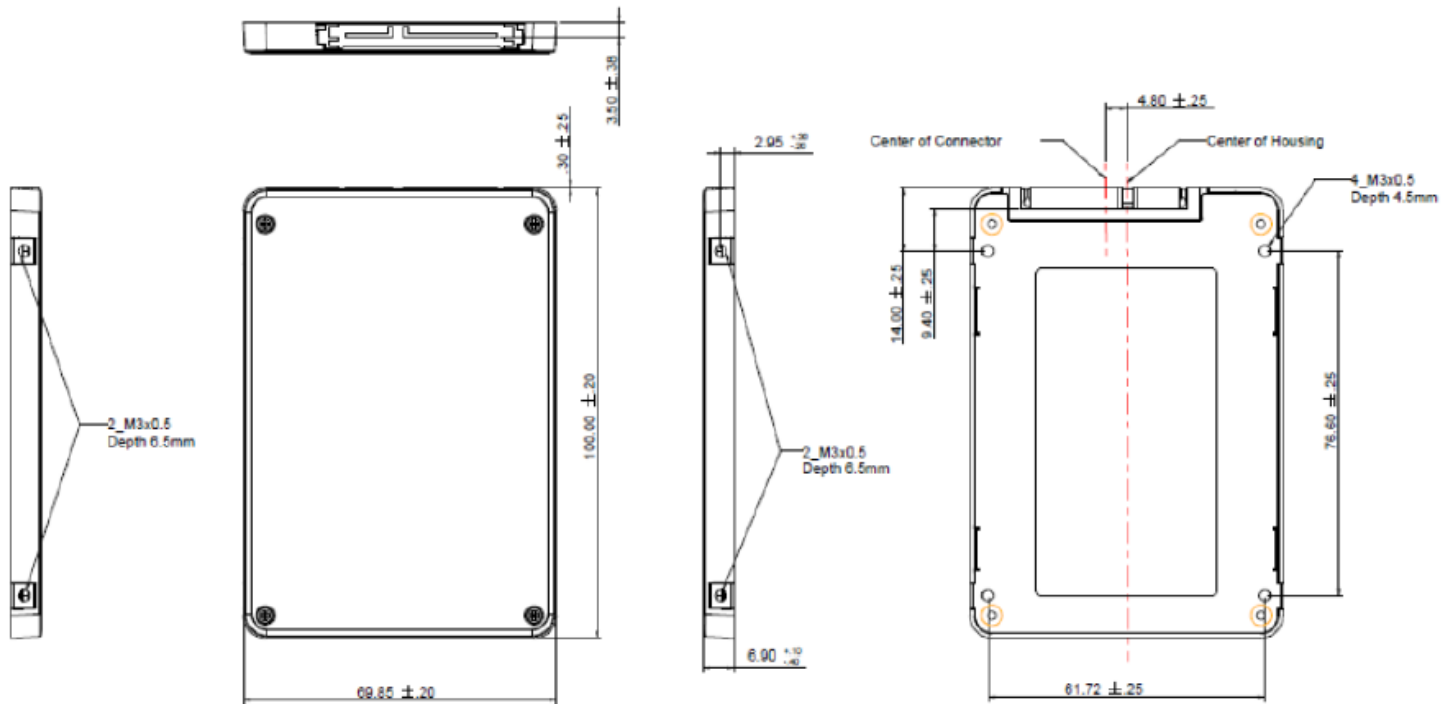
Feature

- Support LDPC ECC
- Global Wear Leveling technology
- S.M.A.R.T. and SSDWidget support
- End-to-End Data Protection
- TRIM Support

- Support TCG Opal 2.0/AES 256-bit encryption
- DataRAID™
- DataDefender™
- Over-provisioning
- Mechanical design available in 7mm height

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	30GB~960GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 560
Sustained Write Performance (MB/sec)	Up to 520
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	73K
Standard Operating Temperature (°C)	0 ~ + 70
Wide Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 100
Shock	Operation: Acceleration, 50(G)/11(ms)/half sine (compliant with MIL-STD-202G) Non-operation: Acceleration,1,500(G)/0.5(ms)/half sine (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: 330mA / Idle mode: 95 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,
contact your Apacer representative
Global Presence