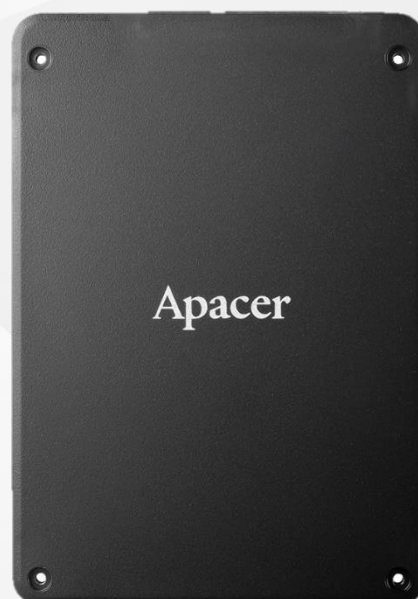# Apacer

The Most **Reliable**
Storage For Industries

SV250-25
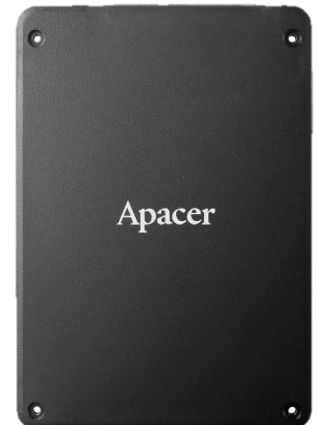
Overview

Apacer's SV250-25 is a well-balanced solid-state disk (SSD) drive with standard form factor and great performance. Designed in SATA 6 Gb/s interface, SV250-25 provides full compliance with the latest SATA Revision 3.2 interface specifications and delivers exceptional read/write speed, making it the ideal companion for heavy-loading industrial or server operations.

Utilizing 3D NAND for higher capacity up to 480GB and providing more power efficiency than 2D NAND, 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. 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 you with peace of mind knowing your data is safeguarded against unauthorized use at all times.

On top of that, SV250-25 features CoreRescue ASR (Auto Self Recovery), enabling the creation of the world's first SSD with automatic backup and recovery capabilities that can be activated and executed within seconds. With AI-driven detection and automated responses, your data is shielded from unexpected losses, offering truly unmanned management.

Feature

- CoreRescue ASR (Auto Self Recovery)
- 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
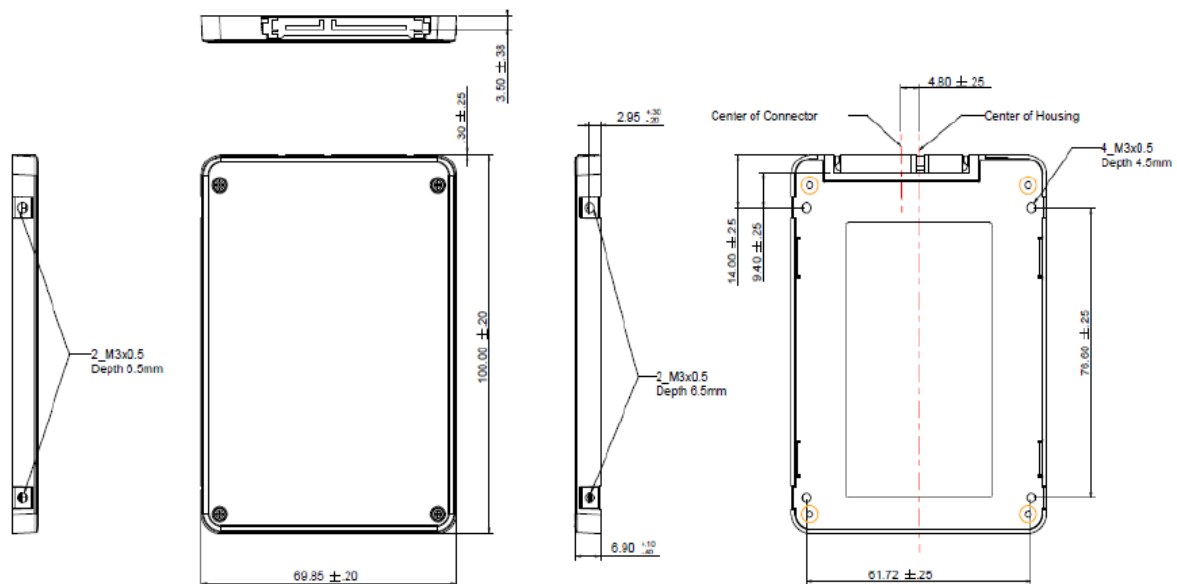- Hyper Cache Technology
- Over-provisioning
- SMART Read Refresh™

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Specifications

Model	SV250-25 CoreRescue ASR
Interface	SATA 3.2 (6Gb/s)
Connector	(7+15) pin male
Form Factor	2.5"
NAND Flash Type	3D TLC
Capacity	60-480GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 560
Sustained Write Performance (MB/sec)	Up to 510
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPs (4K Random Write)	74K
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-55 ~ + 100
Housing	Yes
Thermal sensor	Yes
Shock	Operation: Acceleration, 50(G)/11(ms)/half sine (compliant with MIL-STD-202G) Acceleration, 1500(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	5.0V ± 10%
Power Consumption	Active mode: 265 mA /Idle mode:50 mA
Dimension (L x W x H)	100.00 x 69.85 x 6.90 (unit: mm)
MTBF (hours)	>3,000,000

Mechanical Specification

Table 10-1 Physical Information

Parameter	Unit	60 GB	120 GB	240 GB	480 GB
Length	mm	100.00 ± 0.20			
Width		69.85 ± 0.20			
Height		6.90 + 0.10/- 0.40			
Weight	g ± 5%	62.47	63.12	63.27	63.87

For more information,
contact your Apacer representative

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