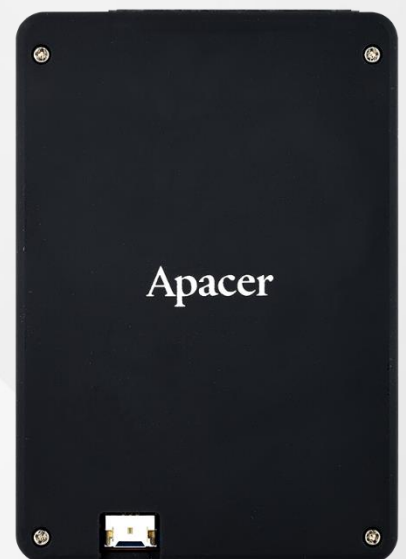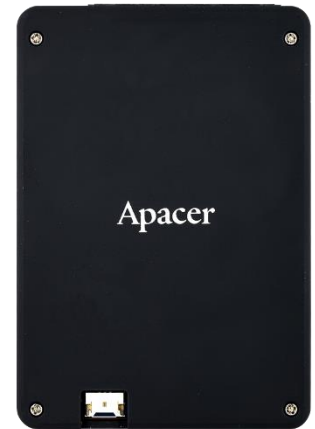# Apacer

The Most **Reliable**
Storage For Industries

SV24C-25

Overview

Apacer's CoreRescue series SV24C-25 with CoreSnapshot 3 technology is a well-balanced solid-state disk (SSD) drive with a standard form factor and outstanding performance. Designed with a SATA 6 Gb/s interface, SV24C-25 fully complies with the latest SATA Revision 3.2 specifications and delivers outstanding read/write speeds. Its random performance is further enhanced by the integration of DRAM in the internal controller, making it ideal for heavy-load industrial or server operations.

Utilizing 3D NAND technology for higher capacities of up to 960GB and offering superior power efficiency than 2D NAND, SV24C-25 is equipped with a robust SATA controller supporting on-the-module ECC and an efficient wear leveling scheme. Additionally, it features an LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and enhance data reliability. SV24C-25 also includes a built-in thermal sensor that monitors SSD temperature via S.M.A.R.T commands, preventing overheating. For highly demanding applications, End-to-End Data Protection ensures data integrity at various points in the data transfer path. Moreover, Advanced Encryption Standard (AES) provides robust security, offering users peace of mind by safeguarding their data against unauthorized access at all times.

On top of that, SV24C-25 features CoreSnapshot 3 technology coupled with Double-barreled Solution and CoreRescue OOB Module (optional) to optimize the stability of system operation and management. CoreSnapshot 3 ensures that SV24C-25 can function normally and return to normal operation in the event of unexpected system failures to reduce downtime and maximum output, while the DBS Cloud Edition or OOB Module extends the practical operating lifespan and integrates seamlessly with alternated RDM platforms, makes monitoring of a complex system much easier and more efficient through the Cloud.

With regard to flash management, SV24C-25 incorporates numerous advanced features, including flash block management, DataDefender, ATA secure erase, TRIM, page mapping, Hyper Cache technology, over-provisioning, device sleep, power-saving modes, DataRAID, and SMART Read Refresh.

With its exceptional performance, proven reliability, and enhanced data protection, SV24C-25 is an ideal storage or cache solution for a variety of applications, including industrial, imaging, computing, and enterprise markets.

Feature

· Low-Density Parity-Check (LDPC) Code

· Global Wear-leveling

· Flash Bad-block Management

· S.M.A.R.T.

· CoreSnapshot 3

· ATA Secure Erase

· TRIM

· Flash Translation Layer: Page Mapping

· Hyper Cache Technology

· Over-provisioning

· Device Sleep

· SATA Power Management

· DataRAID

· SMART Read Refresh

· DataDefender

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Specifications

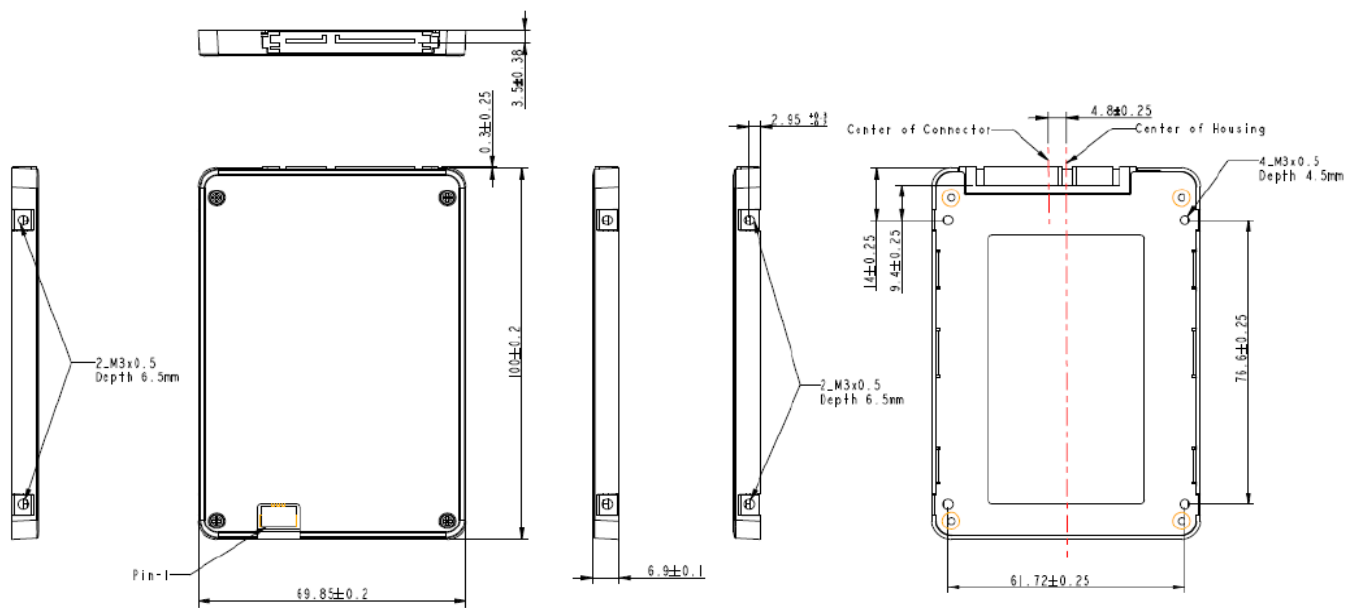|	
Model	SV24C-25 CoreSnapshot 3 Cloud Edition
Interface	SATA 3.2 (6Gb/s)
Connector	(7+15) pin
Form Factor	2.5"
NAND Flash Type	3D TLC
Capacity	120~960GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 560
Sustained Write Performance (MB/sec)	Up to 395
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPs (4K Random Write)	72K
Standard Operating Temperature (°C)	0 ~ 70
Extended Operating Temperature (°C)	-40 ~ 85
Storage Temperature (°C)	-55 ~ 100
Housing	No
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: 500 mA / Idle Mode: 100 mA
Dimension (L x W x H)	7mm: 100.00 x 69.85 x 6.90mm
MTBF (hours)	>3,000,000

Mechanical Specification

Figure 10-1 Physical Dimensions

For more information, contact your Apacer representative

Global Presence