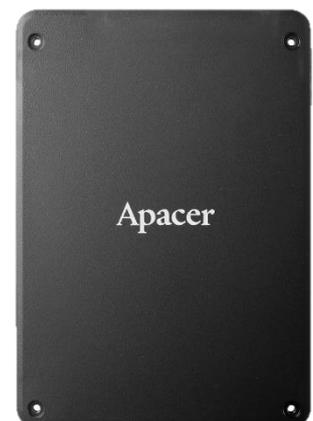


The Most **Reliable**
Storage For Industries

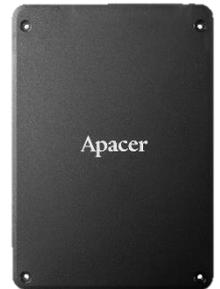
SH240-25



Overview

SH240-25

Apacer's SH240-25 is a well-balanced solid-state drive (SSD) featuring a standard form factor and exceptional performance. Designed with a SATA 6 Gb/s interface, SH240-25 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 up to 640GB and providing greater power efficiency than 2D NAND, SH240-25 is built with a powerful SATA controller that supports on-the-module ECC and an efficient wear leveling scheme. It also features an LDPC (Low Density Parity Check) ECC engine and SLC-liteX technology with P/E cycles support of up to 100,000 times, extending SSD endurance and enhancing data reliability. Additionally, SH240-25 includes a built-in thermal sensor to monitor the SSD's temperature via S.M.A.R.T commands, preventing overheating. For highly-intensive applications, End-to-End Data Protection ensures data integrity is maintained at multiple points along the data transfer path, enabling reliable data delivery.

In terms of security, SH240-25 offers robust data protection with Advanced Encryption Standard to safeguard against unauthorized access. It also includes numerous advanced features such as flash block management, DataDefender, ATA secure erase, TRIM, page mapping, device sleep, power-saving modes, DataRAID, and SMART Read Refresh.

With exceptional performance, proven reliability, and enhanced data protection, SH240-25 is the ideal storage.

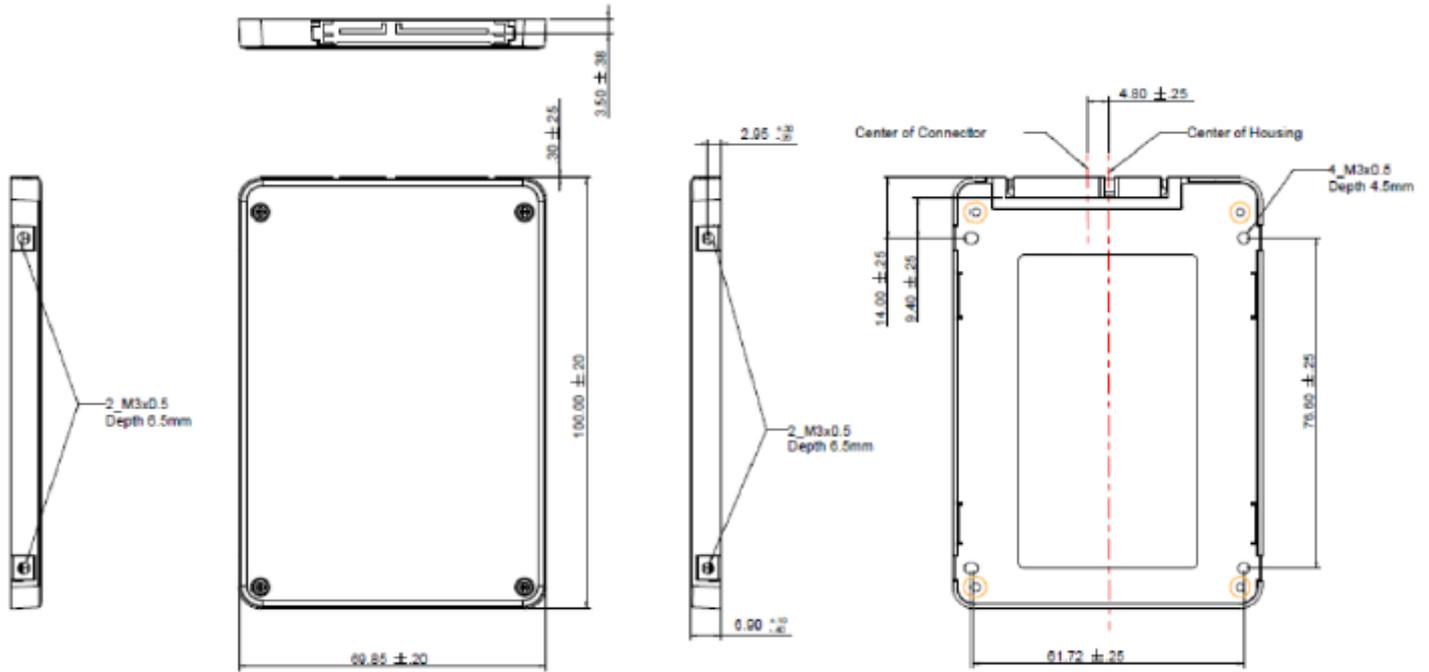
Features

- Low-Density Parity-Check (LDPC) Code
- Flash Bad Block Management
- Global Wear-leveling
- DataDefender™
- ATA Secure Erase
- TRIM
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- Device Sleep
- SATA Power Management
- SLC-liteX (P/E cycles: 100K)
- DataRAID™
- SMART Read Refresh™

Specifications

Model Name	SH240-25
Interface	SATA 3.2 (6Gb/s)
Connector	(7+15) pin male
Form Factor	2.5"
NAND Flash Type	3D TLC
Capacity	40GB~640GB
External DRAM	No
Sustained Read Performance (MB/sec.)	Up to 560
Sustained Write Performance (MB/sec.)	Up to 495
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	81K
Standard Operating Temperature (°C)	0°C ~ 70°C
Extended Operating Temperature (°C)	-40°C ~ 85°C
Storage Temperature (°C)	-55°C ~ 100°C
Housing	No
Thermal Sensor	Yes
Shock	Operating: Acceleration, 50(G)/11(ms)/half sine (Compliant with MIL-STD-202G) Non-operating: Acceleration, 1500(G)/0.5(ms)/half sine (Compliant with MIL-STD-883K)
Vibration	Operating: 7.69 GRMS, 20~2000 Hz/random (Compliant with MIL-STD-810G) Non-operating: 4.02 GRMS, 15~2000 Hz/random (Compliant with MIL-STD-810G)
Operating Voltage	5V ± 5%
Power Consumption	Active Mode: 465 mA / Idle Mode: 100mA
Dimension (L x W x H)	100.00 x 69.85 x 6.90, unit: mm
MTBF (Hours)	>3,000,000

Mechanical Specifications



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