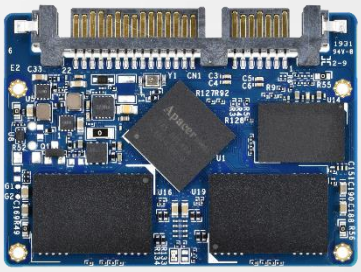
Apacer

The Most **Reliable** Storage For Industries

SV240-297



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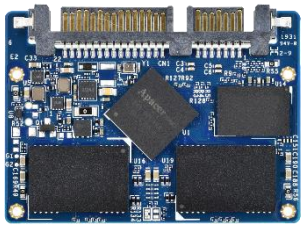
SV240-297

Overview



Apacer's SV240-297 (JEDEC MO-297) utilizes 3D NAND for higher capacity up to 960GB and provides more power efficiency than 2D NAND with compact form factor and great performance. Designed in SATA 6 Gb/s interface, the MO-297 SSD is able to deliver exceptional read/write speed, making it the ideal companion for heavy-loading embedded or server operations with space constraints for host computing systems.

Regarding reliability, SV240-297 is implemented with LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and increase data reliability. In addition, the drive comes with various implementations including power saving modes, global wear leveling, flash block management, S.M.A.R.T., TRIM, power failure management and Hyper Cache technology.

In terms of security, Advanced Encryption Standard (AES) ensures data security and provide users with a peace of mind. 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.

* The actual available memory on the device is less than what is listed on the package. This is due to small discrepancies in file formats and algorithms used by various operating systems. In addition, a portion of memory space is reserved for system files and data sectors for better performance.

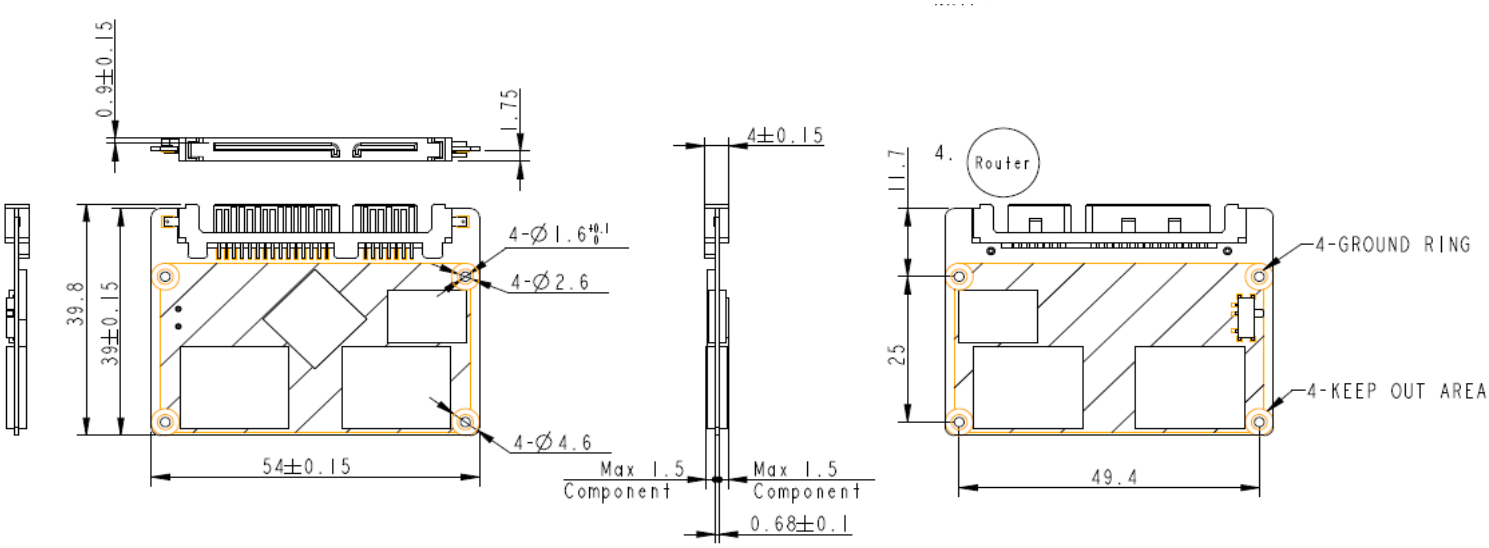
Feature

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

Specifications

Model	SV240-297
Interface	SATA 3.2 (6Gb/s)
Connector	(7+15) pin male
Form Factor	JEDEC MO-297
NAND Flash Type	3D TLC
Capacity	120GB ~ 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)	85K
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 100
Housing	No
H/W Write Protect	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/sine (compliant with MIL-STD-810G)
Operating Voltage	5.0 V ± 5%
Power Consumption	Active mode: 530 mA / Idle mode: 100 mA
Dimension (L x W x H)	54.0 x 39.8 x 4.0 mm
MTBF (hours)	>3,000,000

Mechanical Specification



Unit: mm

For more information, contact your Apacer representative

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