Apacer
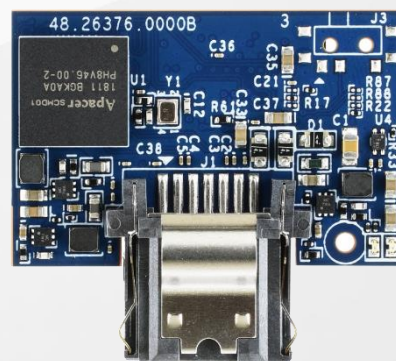
The Most **Reliable**
Storage For Industries

SV250-7LP2

SV250-7LP2

Overview

Apacer SV250-7LP2 (SATA Disk Module 7Pin/180 Degree Low Profile 2) is a super-mini industrial SSD module, utilizing 3D NAND for higher capacity up to 240 GB and provides more power efficiency than 2D NAND. Designed in SATA 6.0 Gb/s interface, SV250-7LP2 can deliver outstanding performance up to 560 MB/s in reading and 510 MB/s in writing, highly suitable to serve as operating system boot drive or storage media of important data.

SV250-7LP2 features Apacer Multi-PowerPath technology that provides three methods to supply power to the host either via a conventional cable or cable-less design via pin7 or state-of-art 7+2 pin connector, which in turn offers developers maximum flexibility when it comes to board design.

Moreover, the device adopts the latest page mapping file translation layer and thermal throttling function, making it a powerful yet compact solution for space-limited design. Regarding reliability, SV250-7LP2 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.
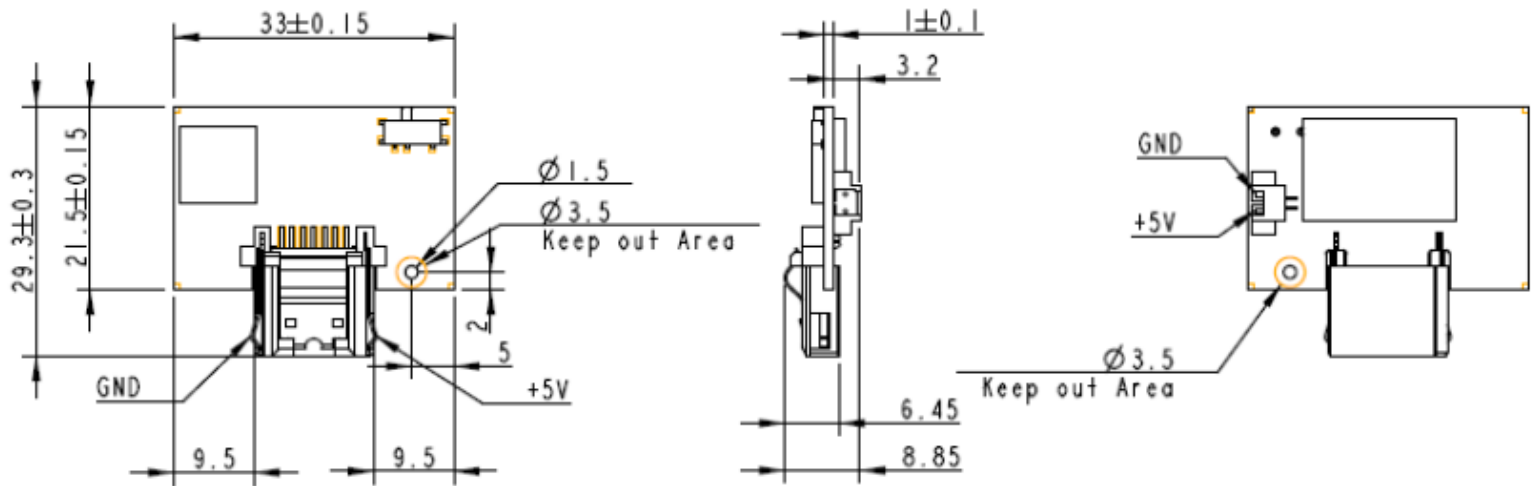
Feature

· 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

· Support TCG Opal 2.0/AES 256-bit encryption

· ATA Secure Erase

· TRIM Support

· Hyper Cache Technology

· Over-Provisioning

· DataRAID™

· SMART Read Refresh ™

Specifications

Model	SV250-7LP2
Interface	SATA 3.0 (6Gb/s)
Connector	7-pin
Form Factor	SATA Disk Module
Transfer Mode	–
NAND Flash Type	3D TLC
Capacity	30GB ~ 120GB
Sustained Read Performance (MB/sec)	Up to 560
Sustained Write Performance (MB/sec)	Up to 510
ECC Engine	Low-Density Parity-Check (LDPC) Code
Standard Operating Temperature (°C)	0 ~ + 70
Wide Temperature (°C)	–
Storage Temperature (°C)	-40 ~ + 100
H/W Write Protect	Optional
Shock	Operation: 50G, 11ms Non-operation: 1500G, 0.5ms
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: 300 mA / Idle mode: 60 mA
Dimension (L x W x H)	33.00 mm x 29.30 mm x 8.85 mm
MTBF (hours)	>1,000,000

Mechanical Specification

33±0.15

29.3±0.3

21.5±0.15

Ø1.5
Ø3.5
Keep out Area

2

5

GND

+5V

9.5

9.5

1±0.1

3.2

6.45

8.85

GND

+5V

Ø3.5
Keep out Area

Unit: mm

For more information,
contact your Apacer representative