Apacer

The Most **Reliable** Storage For Industries

ST170-7LP2





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ST170-7LP2

Overview

Apacer ST170-7LP2 (SATA Disk Module 7Pin/180 Degree Low Profile 2) is a super-mini industrial SSD module, utilizing 3D NAND for higher capacity up to 120 GB and provides more power efficiency than 2D NAND. Designed in SATA 6.0 Gb/s interface, ST170-7LP2 can deliver outstanding performance up to 335 MB/s in reading and 235 MB/s in writing, highly suitable to serve as operating system boot drive or storage media of important data.



For data efficiency, the internal controlling unit of the product is engineered with a DRAM as a write cache for enhanced random performance and endurance. Besides, ST170-7LP2 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. Regarding reliability, ST170-7LP2 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.

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Feature

- Support LDPC ECC
- · Global Wear Leveling
- · Flash bad-block management
- Flash Translation Layer: Page Mapping
- S.M.A.R.T. and SSD Widget
- Power Failure Management
- End-to-End Data Protection
- TRIM Support
- ATA Secure Erase
- Hyper Cache Technology
- Over-Provisioning



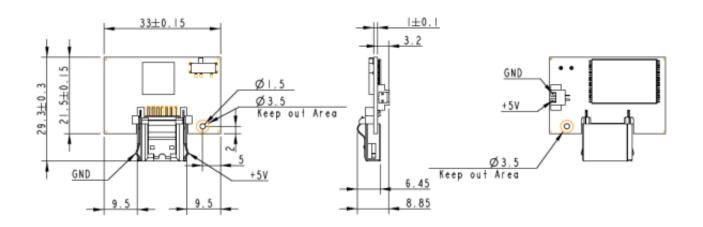


Specifications

Model	ST170-7LP2
Interface	SATA 3.1 (6Gb/s)
Connector	7-pin
Form Factor	SATA Disk Module
NAND Flash Type	3D TLC
Capacity	30GB ~ 120GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 335
Sustained Write Performance (MB/sec)	Up to 235
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	55K
Standard Operating Temperature (°C)	0~+70
Storage Temperature (°C)	-40 ~ + 100
H/W Write Protect	Optional
Screw Hole	NO
Cable-less Solution	Optional (7+2 cable-less, Pin 7 Power cable-less)
Thermal Sensor	YES
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/sine (compliant with MIL-STD-810G)
Operating Voltage	5.0 V ± 5%
Power Consumption	Active mode: 240 mA / Idle mode: 85 mA
Dimension (L x W x H)	33.00mm x 29.30mm x 8.85mm
MTBF (hours)	>1,000,000



Mechanical Specification



Unit: mm

For more information, contact your Apacer representative

Global Presence

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