

Apacer

The Most **Reliable**
Storage For Industries



SM210-300



SM210-300

Overview

Apacer SM210-300 is a well-balanced solid-state disk (SSD) drive with compact form factor (JEDEC MO-300) and great performance. Designed in SATA 6.0 Gbps interface, the mSATA 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. For data efficiency, the internal controlling unit of the mSATA SSD is engineered with DRAM for enhanced random performance. In regard of reliability, the drive comes with various implementations including powerful hardware ECC engine, power saving modes, wear leveling, flash block management, S.M.A.R.T., TRIM, and power failure management.



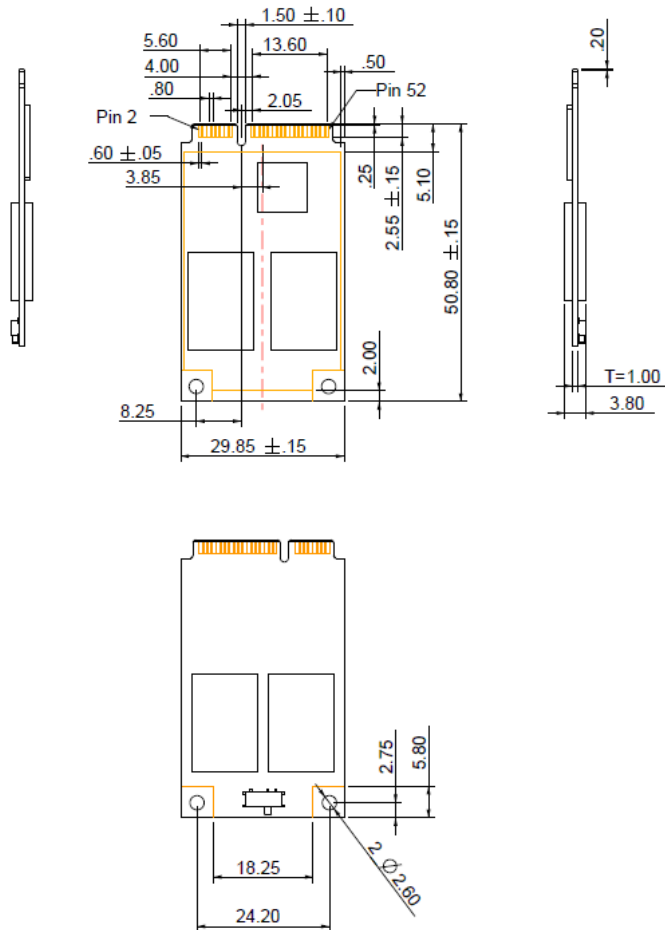
Feature

- Mini PCIe form factor(50.8x29.8mm)
- Compliant with JEDEC MO-300 standard
- High IOPs (4K Random Write): Up to 79K
- Global wear-leveling and Block Management
- Built-in ATA Secure Erase and S.M.A.R.T. Functions
- TRIM command Support
- DEVSLP Support

Specifications

Model	SM210-300
Interface	SATA 3.0 (6Gb/s)
Connector	52-pin mSATA
Form Factor	MO-300 (Mini PCIe)
NAND Flash Type	MLC
Capacity	8GB~512GB
External DRAM	Yes
Sustained Read Performance (MB/sec)	505
Sustained Write Performance (MB/sec)	360
ECC Engine	Built-in 40-bit per 1K bytes BCH ECC
IOPs (4K Random Write)	Up to 79K
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40~ + 85
Storage Temperature (°C)	-40~ + 100
H/W Write Protect	Optional
Thermal sensor	Standard temperature: optional Extended temperature: default
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	3.3V ± 5%
Power Consumption	Active mode: 825 mA & Idle mode: 95mA
Dimension (L x W x H)	50.80 x 29.85 x 3.8 mm
MTBF (hours)	>1,000,000

Mechanical Specification



Unit: mm

For more information, contact your Apacer representative

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