

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.



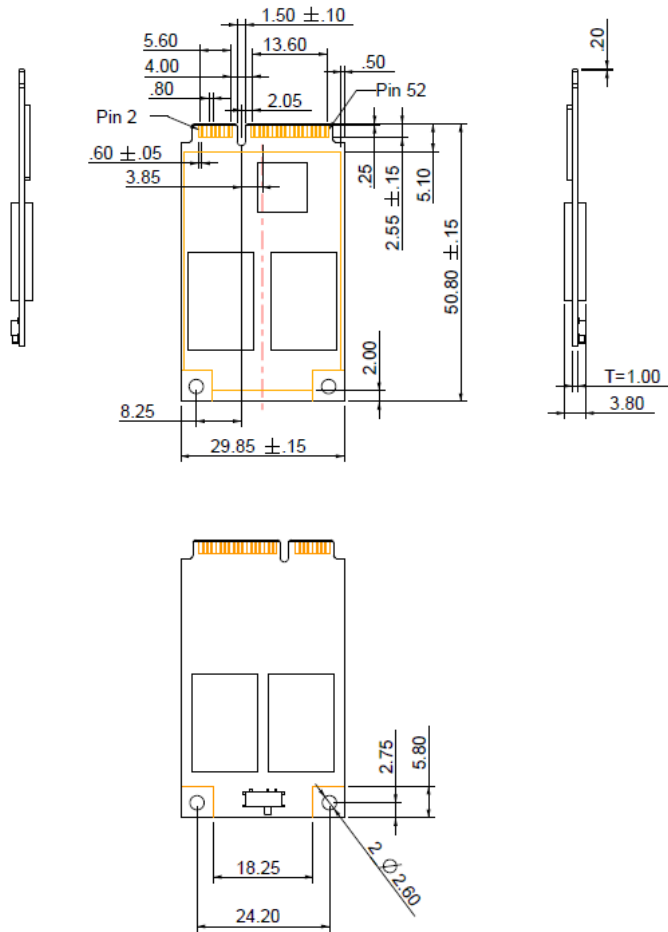
### Feature

- 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

<b>Model</b>	SM210-300
<b>Interface</b>	SATA 3.0 (6Gb/s)
<b>Connector</b>	52-pin mSATA
<b>Form Factor</b>	MO-300 (Mini PCIe)
<b>NAND Flash Type</b>	MLC
<b>Capacity</b>	8GB~512GB
<b>External DRAM</b>	Yes
<b>Sustained Read Performance (MB/sec)</b>	505
<b>Sustained Write Performance (MB/sec)</b>	360
<b>ECC Engine</b>	Built-in 40-bit per 1K bytes BCH ECC
<b>IOPs (4K Random Write)</b>	Up to 79K
<b>Standard Operating Temperature ( °C )</b>	0 ~ + 70
<b>Extended Operating Temperature ( °C )</b>	-40~ + 85
<b>Storage Temperature ( °C )</b>	-40~ + 100
<b>H/W Write Protect</b>	Optional
<b>Thermal sensor</b>	Standard temperature: optional Extended temperature: default
<b>Shock</b>	Operation: 50G, 11ms Non-operation: 1500G, 0.5ms
<b>Vibration</b>	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)
<b>Operating Voltage</b>	3.3V ± 5%
<b>Power Consumption</b>	Active mode: 825 mA & Idle mode: 95mA
<b>Dimension (L x W x H )</b>	50.80 x 29.85 x 3.8 mm
<b>MTBF (hours)</b>	>1,000,000

## Mechanical Specification



Unit: mm

For more information, contact your Apacer representative

### Global Presence

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