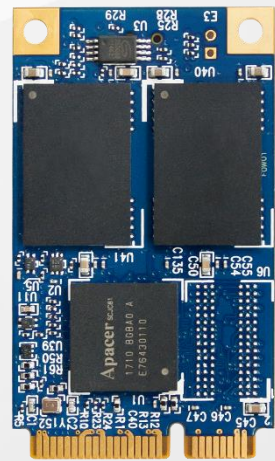


Apacer

The Most **Reliable**
Storage For Industries

SM230-300



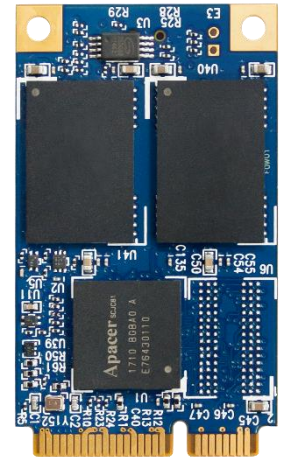
SM230-300

Overview

Apacer SM230-300 is a well-balanced solid-state drive (SSD) with compact form factor (JEDEC MO-300) and great performance. With the 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.

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.

Last but not the least, with Advanced Encryption Standard (AES) and Trusted Computing Group (TCG) Opal support, SM230-300 ensures data security and provides users with a peace of mind knowing their data is safeguarded against unauthorized use at all times.



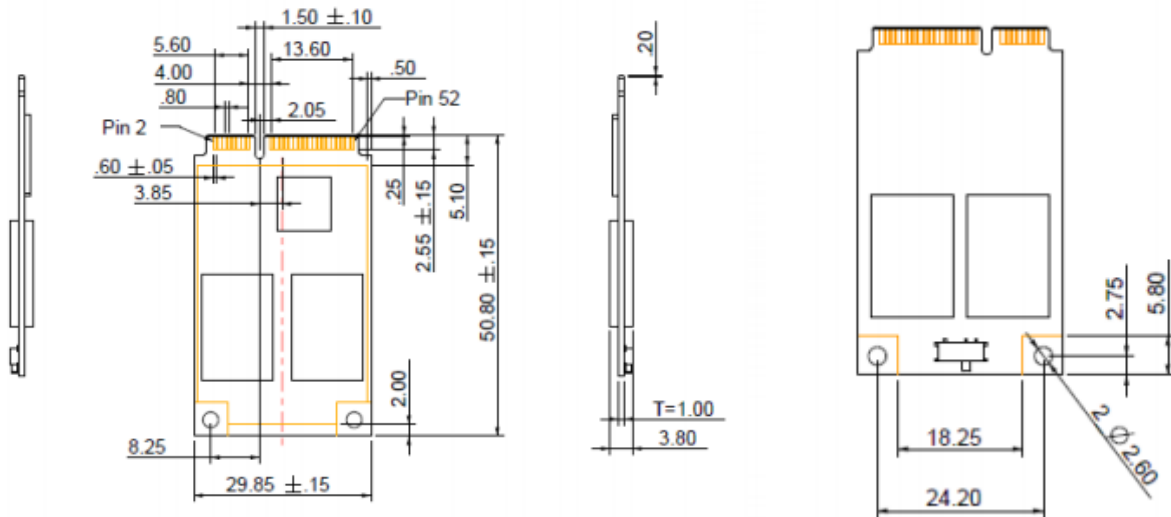
Feature

- Built-in hardware ECC
- Global Wear Leveling
- Flash bad-block management
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- Power Failure Management
- ATA Secure Erase
- TRIM command support
- Support TCG Opal 2.0/AES 256-bit encryption

Specifications

Model	SM230-300
Interface	SATA 3.2 (6Gb/s)
Connector	52-pin
Form Factor	JEDEC MO-300
NAND Flash Type	MLC
Capacity	32GB~512GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 560
Sustained Write Performance (MB/sec)	Up to 510
ECC Engine	Built-in 40-bit per 1K bytes BCH ECC
IOPS (4K Random Write)	58K
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-40 ~ + 85
Storage Temperature (°C)	-40 ~ + 100
Thermal Sensor	Optional
Shock	1500G (compliant with MIL-STD810)
Vibration	15G (compliant with MIL-STD810)
Operating Voltage	3.3V ± 10%
Power Consumption	Active mode: 925 mA / Idle mode: 125 mA
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

Global Presence

Taiwan (Headquarters)
Apacer Technology Inc.
Tel: +886-2-2267-8000
Fax: +886-2-2267-2261

Europe
Apacer Technology B.V.
Tel: +31-40-267-0000
Fax: +31-40-290-0686

U.S.A.
Apacer Memory America, Inc.
Tel: +1-408-518-8699
Fax: 1-510-249-9551

China
Apacer Electronic(Shanghai)
Co., Ltd.
Tel: +86-21-6228-9939

Japan
Apacer Technology Corp.
Tel: +81-3-5419-2668
Fax: +81-3-5419-0018

India
Apacer Technologies Pvt. Ltd.
Tel: +91-80-41529061~3
Fax: +91-80-41700215