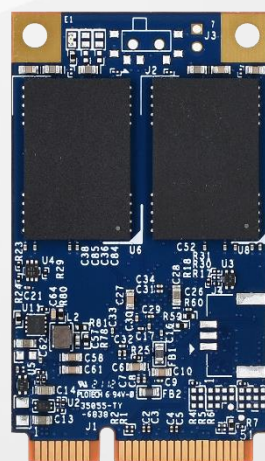# Apacer

The Most **Reliable**
Storage For Industries

ST250-300

ST250-300

Overview

Apacer's ST250-300 is a well-balanced solid-state disk (SSD) drive with standard form factor and great performance. Designed in SATA 6 Gb/s interface, the SSD is able to deliver exceptional read/write speed, making it the ideal companion for heavy-loading industrial or server operations.

ST250-300 utilizes 3D NAND for higher capacity up to 2TB and provides more power efficiency than 2D NAND. Appearing in JEDEC MO-300 mechanical dimensions, ST250-300 is believed to be the leading add-in storage solution for future host computing systems. Regarding reliability, ST250-300 is implemented with LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and increase data reliability.

Data integrity can be assured at multiple points in the path to enable reliable delivery of data transfers with End-to-End Data Protection. In addition, 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 DataDefender™
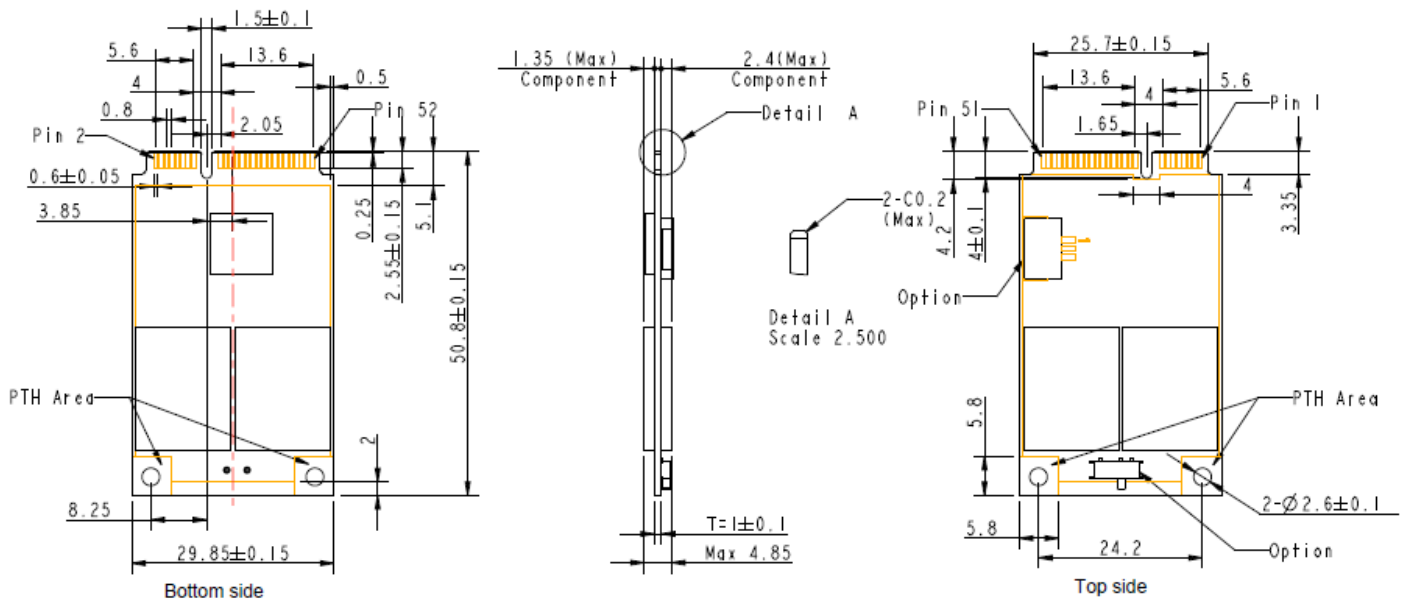
Feature

- Low-Density Parity-Check (LDPC) Code
- Global Wear Leveling
- Flash bad-block management
- Flash Translation Layer: Page Mapping
- S.M.A.R.T.
- DataDefender™

- ATA Secure Erase
- Device Sleep
- TRIM
- Hyper Cache Technology
- DataRAID™
- SMART Read Refresh™

Specifications

Model	ST250-300
Interface	SATA 3.2 (6Gb/s)
Connector	52-pin mSATA connector
Form Factor	JEDEC MO-300
NAND Flash Type	3D TLC
Capacity	128GB ~ 2TB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 560
Sustained Write Performance (MB/sec)	Up to 510
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	66K
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-
Storage Temperature (°C)	-55 ~ + 100
Thermal Sensor	Yes
Shock	Operation: Acceleration, 50(G)/11(ms)/half sine (compliant with MIL-STD-202G) Non-operation: Acceleration,1,500(G)/0.5(ms)/half sine (compliant with MIL-STD-883K)
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	3.3 V ± 5%
Power Consumption	Active mode: 380 mA Idle mode: 60 mA
Dimension (L x W x H)	50.80 x 29.85 x 4.85 (mm)
MTBF (hours)	>3,000,000

Mechanical Specification

Unit: mm

For more information,
contact your Apacer representative

Global Presence