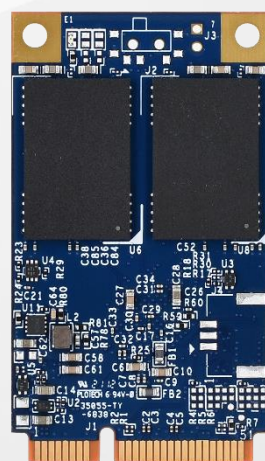


# Apacer

## 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™



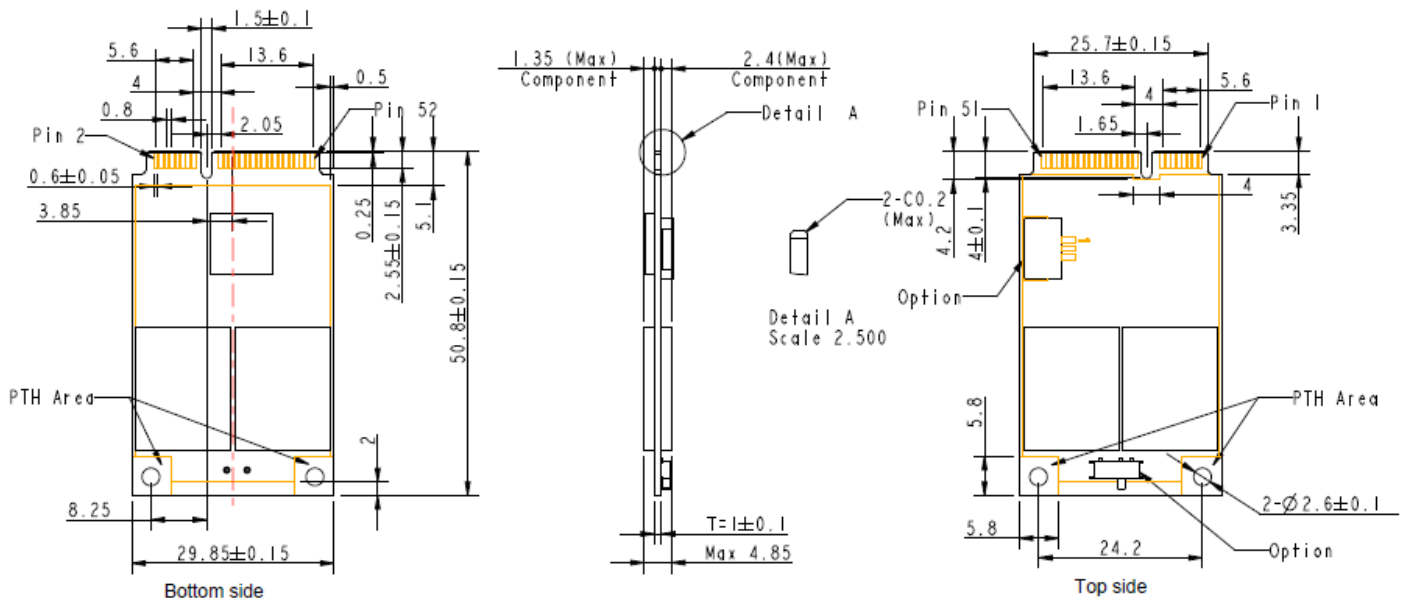
### Feature

- 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
- SMART Read Refresh™

## Specifications

<b>Model</b>	ST250-300
<b>Interface</b>	SATA 3.2 (6Gb/s)
<b>Connector</b>	52-pin mSATA connector
<b>Form Factor</b>	JEDEC MO-300
<b>NAND Flash Type</b>	3D TLC
<b>Capacity</b>	128GB ~ 2TB
<b>External DRAM</b>	No
<b>Sequential Read Performance (MB/sec)</b>	Up to 560
<b>Sequential Write Performance (MB/sec)</b>	Up to 510
<b>ECC Engine</b>	Low-Density Parity-Check (LDPC) Code
<b>IOPS (4K Random Write)</b>	70K
<b>Standard Operating Temperature ( °C )</b>	0 ~ + 70
<b>Extended Operating Temperature ( °C )</b>	-
<b>Storage Temperature ( °C )</b>	-55 ~ + 100
<b>Thermal Sensor</b>	Yes
<b>Shock</b>	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)
<b>Vibration</b>	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)
<b>Operating Voltage</b>	3.3 V ± 5%
<b>Power Consumption</b>	Active mode: 380 mA Idle mode: 65 mA
<b>Dimension (L x W x H )</b>	50.80 x 29.85 x 4.85 (mm)
<b>MTBF (hours)</b>	>3,000,000

## 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

Shanghai  
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