# Apacer

## The Most **Reliable** Storage For Industries

ST250-M242





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### ST250-M242

#### Overview

Apacer's ST250-M242 is a well-balanced solid-state disk (SSD) drive with standard form factor and great performance. Designed in SATA 6.0 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-M242 utilizes 3D NAND for higher capacity up to 1TB and provides more power efficiency than 2D NAND. Regarding reliability, ST250-M242 is implemented with LDPC (Low Density Parity Check) ECC engine to extend SSD endurance and increase data reliability while reading raw data inside a flash chip. 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™.

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

#### 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™

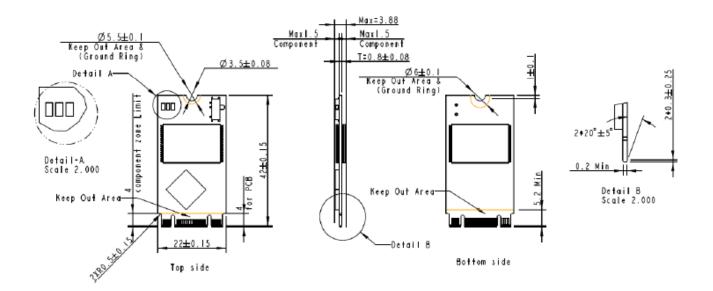


## Specifications

Model	ST250-M242
Interface	SATA 3.2 (6Gb/s)
Connector	75-pin SATA-based M.2 module pinout
Form Factor	M.2 2242-D5-B-M
NAND Flash Type	3D TLC
Capacity	64GB~ 1TB
External DRAM	No
Sequential Read Performance (MB/sec)	Up to 560
Sequential Write Performance (MB/sec)	Up to 510
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	70K
Standard Operating Temperature ( °C )	0 ~ + 70
Extended Operating Temperature ( °C )	-
Storage Temperature ( °C )	-55 ~ + 100
Thermal Sensor	Yes
Shock	Operation: 50G/11ms (compliant with MIL-STD-202G) Non-operation: 1500G/0.5ms (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/sine (compliant with MIL-STD-810G)
Operating Voltage	3.3V ± 5% (3.135-3.465V)
Power Consumption	Active mode: 375 mA Idle mode: 65 mA
Dimension (L x W x H )	42.00 x 22.00 x 3.80 (mm)
MTBF (hours)	>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

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