

Specifications

Model	ST250-M242
Interface	SATA 3.0 (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~512GB
External DRAM	No
Sustained Read Performance (MB/sec)	Up to 560
Sustained Write Performance (MB/sec)	Up to 520
ECC Engine	Low-Density Parity-Check (LDPC) Code
IOPS (4K Random Write)	75K
Standard Operating Temperature (°C)	0 ~ + 70
Extended Operating Temperature (°C)	-
Storage Temperature (°C)	-40 ~ + 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: 435 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