## Apacer

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

### SM220-M242





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### SM220-M242

#### **Overview**

SM220-M242 is the next generation modularized Solid State Drive (SSD) with the shape of M.2 form factor, with the aim to be the more suitable for server and compact computers with standard width at only 22.00 mm. SM220-M242 appears in M.2 2242 mechanical dimensions and is believed to be the leading add-in storage solution for future host computing systems.



The M.2 SSD is designed with SATA-based connector pinouts, providing full compliance with the latest SATA Revision 3.2 interface specifications. Aside from SATA compliance, SM220-M242 delivers exceptional performance and power efficiency. On the other hand, the extreme thin and light form factor makes SM220-M242 the ideal choice for mobile computing systems, which appears to be the trend in near future.

Regarding reliability, SM220-M242 is built with a powerful SATA controller that supports on-the-module ECC as well as efficient wear leveling scheme. Since it is operating under SATA 6.0 Gbps interface, SM220-M242 is provided with Apacer latest S.M.A.R.T. that are primarily oriented for the latest SATA interface SSD, for drive lifetime monitoring and analyzing.

#### **Feature**

- · SATA 3 (6Gb/s) interface
- · M.2 (NGFF) connector
- · Advanced 4K Page Mapping Technology
- · Built-in ATA secure erase and S.M.A.R.T. functions
- · Higher IOPS (with DRAM)

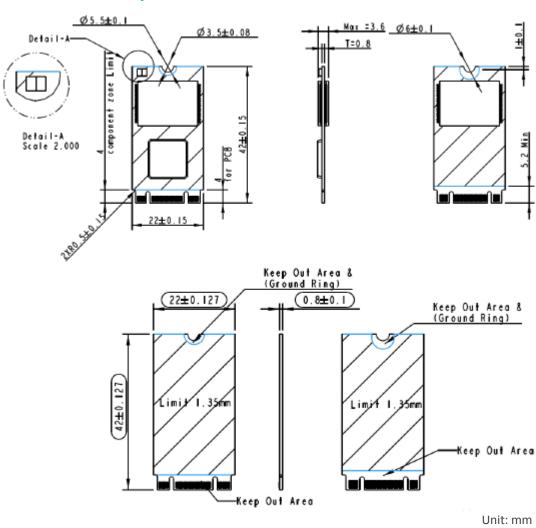


### **Specifications**

Model	SM220-M242
Interface	SATA 3.0 (6Gb/s)
Connector	M.2 B & M key
Form Factor	M.2 2242-D2-B-M
NAND Flash Type	MLC
Capacity	8GB~256GB
External DRAM	Yes
Sustained Read Performance (MB/sec)	Up to 525
Sustained Write Performance (MB/sec)	Up to 355
ECC Engine	Built-in up to 40-bit per 1K bytes BCH ECC
IOPs (4K Random Write)	43K
Standard Operating Temperature ( °C )	0~+70
Extended Operating Temperature ( °C )	-40 ~ + 85
Storage Temperature ( °C )	-40 ~ + 100
Thermal Sensor	Yes
Shock	Operation: 50G, 11ms Non-operation: 1500G, 0.5ms
Vibration	Operation: 7.69 Grms, 20~2000 Hz/random (compliant with MIL-STD-810G) Non-operation: 15 G, 10 ~ 2000 Hz/sine
Operating Voltage	3.3 V ± 5%
Power Consumption	Active mode: 750mA & Idle mode: 80 mA
Dimension (L x W x H )	42mm x 22mm x 3.6mm
MTBF (hours)	>1,000,000

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### **Mechanical Specification**



## For more information, contact your Apacer representative

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