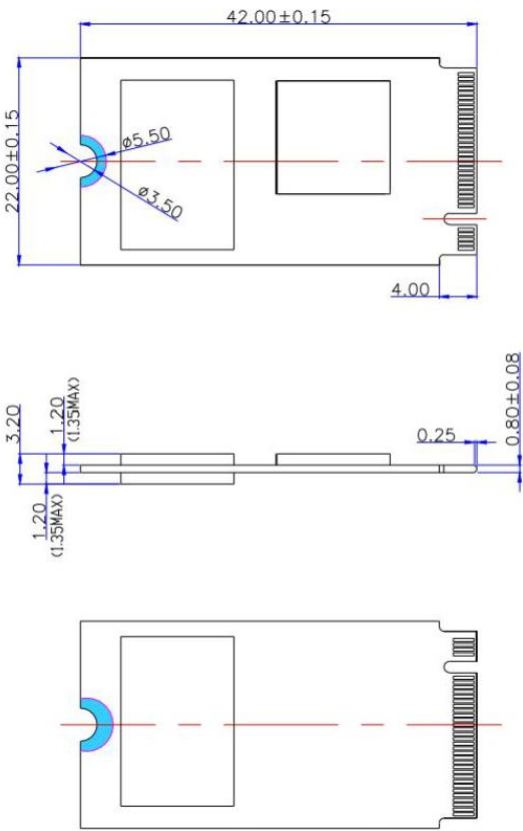# M.2-2242-NVME
M.2 42mm NVME SSD

IONN M.2 NVME 2242 SSD which adopts SM2263XT SSD controller is a NVM Express SSD, it is designed as the standard M.2 2242 form factor with PCIe interface. It supports PCIe Gen 3x4 which is compliant with NVMe 1.3 protocol providing excellent performance. With sophisticated error detection and correction (LDPC ECC) functions, the IONN M.2 PCIe 2242 SSD can ensure full End-to-End data path protection that secures the data

transmission between host system and NAND Flash. Additionally, the PCIe SSD with heat-spreading design dissipate heat generating from IC making the SSD perform steadier. The IONN M.2 PCIe 2242 SSD is capable of maximum capacity up to 1TB, delivers

high read performance up to 2000MB/s but low power consumption. It effectively reduces the booting time of your operation system, and the power consumption is less than a hard disk drive (HDD), the SSD is not only optimal for PC boot drives, but also can be configured as a boot device for embedded system.

Features

- Native - PCIe SSD
- B27A 3D TLC NAND Flash built-in
- PCI Express Gen3: Single port X4 lanes
- Compliant with M.2 type 2242-D2(M key)
- Compliant with PCI Express Base Specification Rev. 3.0
- Compliant with NVM Express Specification Rev.1.3
- Static and Dynamic Wear Leveling and Bad Block Management
- Support up to queue depth 64K
- LDPC + RAID
- Support SMART and TRIM commands

Specifications

Interface	Socket 3 (M key)
Operating Voltage	3.3V +/-5%
Operating System	Supported by all operating systems
Operating Temperature	Commercial Grade: 0°C to +70°C Storage Temperature: -45°C to +95°C
Humidity	5% to ~98% RH (Non-condensing)
Operating Shock	1500G at 0.5ms
Operating Vibration	15G(7 to 2000Hz)
Dimensions	42(L) x 22(W) x 3.2(H) mm
Weight	7g
Installation Requirements	System Hardware which supports Socket 3 (M key) standards System Hardware includes M.2 socket or transfer board

*All product specifications and product images are subject to change without notice.