

Industrial PS3109-S9 M.2 2280

Phison's S9 M.2 2280 (N-Module89) S9 delivers all the advantages of Flash Disk technology with the Serial ATA I/II/III interface and is fully compliant with the standard Next Generation Form Factor (NGFF) called M.2 Card Format, which is generated by Intel. The M.2 2280 (N-Module 89) S9 is designed to operate at a maximum operating frequency of 300MHz with 40MHz external crystal. Its capacity could provide a wide range up to 256GB. Moreover, it can reach up to 515MB/s read as well as 180MB/s write high performance based on Toshiba's 1Xnm MLC flash.



Product Specification and Features

| | |
|---|--|
| Capacity | 2GB to 256GB |
| SATA Interface | SATA Revision 3.0 SATA 1.5Gbps, 3Gbps, and 6Gbps interface |
| Flash Interface and Support | Flash type: 24nm SLC, 15nm MLC/ PseudoSLC 1pcs to 4pcs of TSOP/BGA flash |
| Performance (Max) | Read/Write: Up to 515/180 MB/s |
| Power Consumption ^{Note1} | Active mode: < 2,305 mW Idle mode: < 325 mW DEVSLP mode: < 5 mW |
| TBW (Terabytes Written) ^{Note1} | 635 TBW for 256GB MLC; 3,448 TBW for 64GB SLC |
| MTBF | ≥ 2,000,000 hours |
| Advanced Technology | Default: SmartRefresh™, SmartFlush™ Optional: Guarantee Flush™ |
| Thermal Sensor | Support |
| Operating Temperature | Silver grade: 0°C ~ 70°C ; Diamond grade: -40°C ~ 85°C |
| Environment | Storage Temperature: -40°C ~ 85°C Vibration: 80Hz~2000Hz@20G Mechanism Shock (operation/ non-operating): 1500G@0.5ms |
| RoHS and Halogen Free compliant | Support |

Physical Dimension

M.2 2280: 80mm(L) x 22mm(W) x 3.8mm(H)

