

Industrial PS3110-S10C M.2 2280

Phison's Industrial PS3110-S10C M.2 2280 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 PS3110-S10C M.2 2280 is designed to operate at a maximum operating frequency of 300MHz with 30MHz external crystal. Its capacity could provide a wide range up to 960GB (1TB). Moreover, it can reach up to 540MB/s read as well as 520 MB/s write high performance based on Toshiba's 1Xnm MLC flash.

Product Specification and Features

Capacity	64GB up to 1TB	
SATA Interface	SATA Revision 3.2 SATA 1.5Gbps, 3Gbps, and 6Gbps interface	
Flash Interface and Support	Flash type: 24nm SLC, 15nm MLC/ PseudoSLC, 3D TLC 2pcs to 4pcs BGA flash	
Performance (Max)	Read/Write: Up to 540/520 MB/s IOPS: Up to 80K/87K	
Power Consumption ^{Note1}	Active mode: < 3,950mW Idle mode: < 1,400mW	
TBW (Terabytes Written) ^{Note1}	2,057 TBW for 1TB MLC; 5,136 TBW for 128GB SLC	
MTBF	≥ 2,000,000 hours	
Advanced Technology	Default: SMART ECC™(RAID ECC), SmartRefresh™, End to End Data Path Protection, SmartFlush™ Optional: GuaranteeFlush™	
Specific Feature	Thermal Sensor	Support
	AES 256bit	Support
	Military Erase	Optional
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)

