CP2700 | PCIe NVMe | M.2 2280 SSD

SMART's CP2700 PCIe NVMe M.2 2280 SSDs feature a PCIe Gen3 x4 interface and are compliant to NVMe 1.4 specification. The CP2700 PCIe NVMe M.2 2280 SSDs are DRAM-less solutions easily integrated into a host system without any BIOS modifications or additional drivers. They incorporate on-board error detection and correction, and static wear-leveling algorithms to provide reliable operation over the product life cycle.

The CP2700 PCIe NVMe M.2 2280 SSDs target servers, storage cache/ accelerators, networking, and data communications applications requiring reliable internal storage with a small footprint. They are also an ideal fit for mobile and embedded computing, medical, automotive, and industrial applications.

3D TLC

CP2700
PCIe NVMe
M.2 2280 SSD
SMART Modular Technologies

Features & Benefits

- PCIe Gen3 x4 NVMe 1.4 Compliant
- DRAM-less Controller Design
- 3D NAND Technology with High Endurance
- Thermal Throttling Management
- LDPC Error Detection / Correction Circuitry for Superior Data Reliability
- M.2 Single Sided Design

Applications

- Aerospace
- Data Center
- HPC
- Medical
- Networking
- Telecom

Product Family Overview

Form Factor	Capacity	Sequential Performance
M.2 2280	128GB to 1TB	Up to 3400MB/s Read Up to 3100MB/s Write

Specifications

	CP2700
NAND Type	TLC
Performance	
Host Interface Rate (maximum)	PCIe Gen3 x4
Capacities	128GB to 1TB
Sequential Read (maximum)	Up to 3400MB/s
Sequential Write (maximum)	Up to 3100MB/s
Random Read (maximum)	Up to 560K IPOS
Random Write (maximum)	Up to 410K IOPS
Reliability	
MTBF	>1,000,000 hours
Endurance (JEDEC Client Workload)[1]	1TB: 1500 TBW 512GB: 750 TBW 256GB: 375 TBW 128GB: 185 TBW
Error Correction	LDPC
Power	
Input Voltage	VCC: 3.3 V ± 5%
Environmental	
Shock	1500 g half-sine, 0.5 msec, 1 shock along each axis, X, Y, Z in each direction
Vibration	20G 80-2000Hz, 1.52mm 20-80Hz, 3 axis
Operating Temperature	Commercial: 0°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	40°C, Operation: 90% RH, Storage: 93% RH
Physical	
Length	80.0 mm
Width	22.0 mm
Height	2.05 mm

[1]Endurance is directly related to the User Specific Workload.

Ordering Information

Part Number	Density
**CP2700	PCIe NVMe	M.2 2280 SSD** **Commercial Operating Temperature (0°C to +70°C)**	
FDMP81024TCXB182	1TB
FDMP8512GTCXB182	512GB
FDMP8256GTCXB182	256GB
FDMP8128GTCXB182	128GB

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For more information, please visit: **www.smartm.com**

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