



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.



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 IOPS |
| 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 |

¹Endurance 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 |



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

**Product images are for promotional purposes only. Labels may not be representative of the actual product.*

Headquarters/North America:

T: (+1) 800-956-7627 • T: (+1) 510-623-1231
F: (+1) 510-623-1434 • E: info@smartm.com

Latin America:

T: (+55) 11 4417-7200 • E: sales.br@smartm.com

Asia/Pacific:

T: (+65) 6678-7670 • E: sales.asia@smartm.com

EMEA:

T: (+44) 0 7826-064-745 • E: sales.euro@smartm.com

Customer Service:

T: (+1) 510-623-1231 • E: customers@smartm.com