

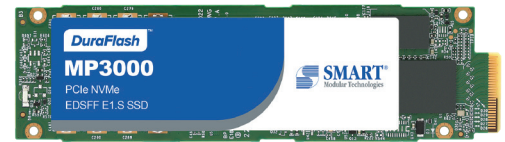


DuraFlash™

MP3000 | PCIe NVMe | EDSFF E1.S SSD

SMART Modular's Enterprise and Data Center SSDs are an ideal solution for capturing, storing and analyzing very large amounts of data. The high performance, E1.S form factor and 12V operation are specifically optimized for scale-out main storage in servers. They fit vertically in 1U servers to provide improved cooling and maximum system capacity (up to 32 EDSFF SSDs in a 1U server).

SMART Modular's EDSFF E1.S SSDs support a full range of command sets and provide the security and reliability needed by the most demanding data center applications.



Features & Benefits

- The Latest Generation 3D NAND Technology
- Quality of Service (QoS) with 3 Nines of Latency Consistency
- PCIe Gen4 x4 NVMe 1.4 Compliant
- 1 DDPD For 5 Years, Enterprise Workload
- SafeDATA™ Power-Loss, Data-Protection Technology
- Advanced Security Including: TCG OPAL 2.0, AES 256 Encryption, and Secure Boot with PKI-Based Firmware Authenticity Verification
- E1.S 5.9mm 12W Form Factor (31.5mm x 111.49mm x 5.9mm)
- Fits in Common Datacenter System Chassis (1U, 2U, etc.)
- Designed to be Front Panel Accessible
- Up to 32 EDSFF SSDs in a 1U Server (up to 256TB Total Capacity)
- Cost Benefit to System Designs with 12V Only for Main Power
- Full Range of NVMe Command Sets Available
- Supports Hot-Plug Insertion and Removal
- Capacity Ranges: 240GB to 1.92TB

Applications

- AI
- Data Center
- HPC
- Networking
- Storage
- Telecommunication

Product Family Overview

| Form Factor | Capacity | Sequential Performance |
|---------------|-----------------|---|
| M.2 2280 SSD | 240GB to 1920GB | Up to 3500MB/s Read Up to 2750MB/s Write |
| M.2 22110 SSD | 240GB to 1920GB | |
| EDSFF E1.S | 240GB to 1920GB | |

Specifications

| MP3000 PCIe NVMe EDSFF E1.S SSD | |
|---|---|
| NAND Type | eTLC |
| Performance | |
| Host Interface Rate (maximum) | PCIe Gen4 x4 |
| Capacities | 240GB to 1920GB |
| Sequential Read (maximum) | Up to 3500MB/s |
| Sequential Write (maximum) | Up to 2750MB/s |
| Random Read (maximum) | Up to 400K IOPS |
| Random Write (maximum) | Up to 160K IOPS |
| Reliability | |
| MTBF | > 2,000,000 hours |
| Endurance (JEDEC Enterprise Workload) ¹ | 1920GB: 5170 TBW 960GB: 2585 TBW 480GB: 1292 TBW 240GB: 646 TBW |
| DWPD | 1 |
| SafeDATA | Standard |
| Error Correction | LDPC |
| Data Security | |
| Encryption | AES-256, TCG OPAL 2.0 |
| Power | |
| Input Voltage | VCC: 12V ± 10% |
| 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 Industrial: -40°C to +85°C |
| Storage Temperature | -40°C to +85°C |
| Humidity | 40°C, Operation: 90% RH, Storage: 93% RH |
| Physical | |
| Length | 111.49 mm |
| Width | 31.5 mm |
| Height | 5.9 mm |

¹Endurance is directly related to the User Specific Workload.

Ordering Information

| Part Number | Density |
|--|---------|
| MP3000 PCIe NVMe EDSFF E1.S SSD Commercial Operating Temperature (0°C to +70°C) | |
| SRE1S1920F1N2AC3 | 1920GB |
| SRE1S960GF1N2AC3 | 960GB |
| SRE1S480GF1N2AC3 | 480GB |
| SRE1S240GF1N2AC3 | 240GB |
| MP3000 PCIe NVMe EDSFF E1.S SSD Industrial Operating Temperature (-40°C to +85°C) | |
| SRE1S1920F2N2AC3 | 1920GB |
| SRE1S960GF2N2AC3 | 960GB |
| SRE1S480GF2N2AC3 | 480GB |
| SRE1S240GF2N2AC3 | 240GB |



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

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

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