



## DuraFlash™

# SP2800 | PCIe NVMe | M.2 22110 SSD

SMART's DuraFlash SP2800 products are best in-class PCIe NVMe SSDs with the functionality, performance and reliability for mission-critical applications. These drives target server, storage cache/accelerators, networking, and data communications applications requiring reliable internal storage with a small footprint. They are also a natural fit for enterprise applications, including computing, medical, transportation, video surveillance and other industrial applications.

The SP2800 PCIe NVMe M.2 22110 SSDs feature a PCIe Gen3 x4 interface and are compliant to NVMe 1.3 specification. They support TCG Opal 2.0 as standard, and are easily integrated into a host system without any BIOS modifications or additional drivers. The SP2800 products incorporate on-board error detection and correction, and static wear-leveling algorithms to provide reliable operation over the product life cycle.



## Features & Benefits

- PCIe Gen3 x4 NVMe 1.3 Compliant
- 1 DDPD Version Available with SP2800 HE
- TCG OPAL 2.0 and AES 256 Encryption for Data Security and Data Sanitize
- End-to-End Data Path Protection
- 3D NAND Technology with High Endurance
- SafeDATA™ Technology as a Standard Feature for SP2800 HE (SafeDATA safeguards the integrity, functionality and data of the SSD in the event of sudden power loss.)

## Applications

- Data Center
- Networking
- Storage Server
- Telecom

## Product Family Overview

Capacity	Sequential Performance
<b>SP2800 SE   PCIe NVMe   M.2 22110 SSD</b>	
240GB to 1920GB	Up to 3300MB/s Read; Up to 2600MB/s Write
<b>SP2800 HE   PCIe NVMe   M.2 22110 SSD</b>	
240GB to 1920GB	Up to 3300MB/s Read; Up to 2600MB/s Write

## Specifications

	SP2800 SE	SP2800 HE
NAND Type	TLC	eTLC
Performance		
Host Interface Rate (maximum)	PCIe Gen3 x4	
Capacities	240GB to 1920GB	
Sequential Read (maximum)	Up to 3300 MB/s	
Sequential Write (maximum)	Up to 2600 MB/s	
Random Read (maximum)	Up to 300K IOPS	
Random Write (maximum)	Up to 300K IOPS	
Reliability		
MTBF	> 2,000,000 hours	
Endurance (JEDEC Enterprise Workload) <sup>1</sup>	1920GB: 1200 TBW	1920GB: 4000 TBW
	960GB: 600 TBW	960GB: 2000 TBW
	480GB: 300 TBW	480GB: 1000 TBW
	240GB: 120 TBW	240GB: 450 TBW
DWPD	0.3	1
SaferDATA	-	Standard
Error Correction	LDPC	
Data Security		
Encryption	AES-256, TCG OPAL 2.0	
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 Industrial: -40°C to +85°C	
Storage Temperature	-40°C to +85°C	
Humidity	40°C, Operation: 90% RH, Storage: 93% RH	
Physical		
Width	110.0 mm	
Width	22.0 mm	
Height	3.65 mm	

<sup>1</sup>Endurance is directly related to the User Specific Workload.

## Ordering Information

Part Number	Density
<b>SP2800 SE   PCIe NVMe   M.2 22110 SSD</b> <b>Commercial Operating Temperature (0°C to +70°C)</b>	
SRMP11920TCS1B71	1920GB
SRMP1960GTCS1B71	960GB
SRMP1480GTCS1B71	480GB
SRMP1240GTCS1B71	240GB
<b>SP2800 SE   PCIe NVMe   M.2 22110 SSD</b> <b>Industrial Operating Temperature (-40°C to +85°C)</b>	
SRMP11920TIS1B71	1920GB
SRMP1960GTIS1B71	960GB
SRMP1480GTIS1B71	480GB
SRMP1240GTIS1B71	240GB
<b>SP2800 HE   PCIe NVMe   M.2 22110 SSD</b> <b>Commercial Operating Temperature (0°C to +70°C)</b>	
SRMP11920F1S1B71	1920GB
SRMP1960GF1S1B71	960GB
SRMP1480GF1S1B71	480GB
SRMP1240GF1S1B71	240GB
<b>SP2800 HE   PCIe NVMe   M.2 22110 SSD</b> <b>Industrial Operating Temperature (-40°C to +85°C)</b>	
SRMP11920F2S1B71	1920GB
SRMP1960GF2S1B71	960GB
SRMP1480GF2S1B71	480GB
SRMP1240GF2S1B71	240GB

### DuraFlash Product Grading System

**SE** Standard Endurance | **TLC**

**HE** High Endurance | **eTLC**

**PE** Premium Endurance | **eTLC (OP 28%)**

**UE** Ultra Endurance | **pSLC**



For more information, please visit: [www.smartm.com](http://www.smartm.com)

#### Headquarters/North America:

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

#### Latin America:

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

#### Asia/Pacific:

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

#### EMEA:

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

#### Customer Service:

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