

# SD Card – MLC/pSLC

## High Capacity Drives

SMART's high-capacity SD Card product line is fully SD UHS-I compliant. Available with pSLC or MLC Flash options, the high-capacity SD cards are offered in commercial and industrial temperature versions in densities up to 32GB for pSLC Flash and 64GB for MLC Flash. The SD card products are specifically designed to meet strict industrial operating and environmental requirements.

SMART Modular's SD Card product line offers best in class industrial grade SD card performance – up to 99MB/s read and 91MB/s write for the pSLC version.

pSLC Flash offers 10x the endurance of standard MLC Flash. It is a cost-effective alternative to native SLC Flash in high-capacity SD card applications.

Incorporating onboard error detection and correction algorithms and static and dynamic wear leveling techniques, SMART's SD card products ensure years of reliable operation over a product's life.

### Features & Benefits

- Capacities:
  - pSLC: 4GB to 32GB
  - MLC: 8GB to 64GB
- Low power dissipation
- Onboard wear leveling
- RoHS compliant

### Product Family Overview

	Capacity	Performance Sequential
<b>pSLC SD Card</b>		
pSLC	4GB to 32GB	R/W up to 99/91MB/s
<b>MLC SD Card</b>		
MLC	8GB to 64GB	R/W up to 99/74MB/s



### Applications

- Automotive telematics, navigation and infotainment
- Digital commercial camcorders
- Telecom and communications
- Embedded computing
- Medical equipment
- Gaming
- Industrial meters and industrial control
- Networking

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## Specifications

	pSLC SD	MLC SD
<b>Performance</b>		
Read (maximum)	99MB/s	99MB/s
Write (maximum)	91MB/s	74MB/s
<b>Capacity</b>		
Capacity	4GB to 32GB	8GB to 64GB
<b>Power</b>		
VCC	(2.7V - 3.6V)	
<b>Environmental</b>		
Operating Temperature	0°C to 70°C -40°C to 85°C	
Storage Temperature	-25°C to 85°C -40°C to 85°C	
Humidity	25°C to 95 percent	
<b>Physical</b>		
Length	32mm	
Width	24mm	
Weight	2.1mm	

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