

MicroSD Card – MLC/pSLC

High Capacity Drives

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

SMART Modular's microSD card product offers best in class industrial grade microSD card performance — up to 99MB/s read and 91MB/s write for the high-capacity cards.

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

Incorporating onboard error detection and correction algorithms and static and dynamic wear leveling techniques, SMART's microSD 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

Density	Read Max	Write Max
pSLC microSD Card		
4GB to 32GB	99MB/s	91MB/s
MLC microSD Card		
8GB to 64GB	99MB/s	91MB/s



Applications

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

Specifications

	pSLC microSD	MLC microSD
Performance		
Read (maximum)	99MB/s	99MB/s
Write (maximum)	91MB/s	91MB/s
Capacity		
Capacity	4GB to 32GB	8GB to 64GB
Power		
Vcc	2.7 - 3.6 V	
Environmental		
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	
Mechanical		
Length	15 mm	
Width	11 mm	
Height	0.7/1.0 mm	

Contact information

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