

RD530m | SD 6.1 | microSD Card

SMART's high-capacity RD530m microSD Memory Cards are fully microSD UHS-I SDR 104 compliant. The RD530m microSD Cards are offered in 3D TLC NAND Flash, available in capacities from 64GB to 128GB. They are specifically designed to meet strict industrial operating and environmental requirements.

Incorporating onboard error detection and correction algorithms, and static and dynamic wear-leveling techniques, SMART's RD530m microSD Cards ensure years of reliable operation over a product's life.



Features & Benefits

- 3D TLC NAND Technology
- SD UHS-I Compliant
- Static and Dynamic Wear-Leveling
- Copyright Protection Mechanism
- Supports CPRM (Content Protection for Recordable Media)
- Built-in Write Protection
- RoHS Compliant and Low Haloge

Applications

- Automotive
- Embedded computing
- IIoT
- Medical
- Military

Product Family Overview

Form Factor	Capacity	Sequential Performance
SD 6.1 microSD Card	64GB to 128GB	Up to 100MB/s Read Up to 90MB/s Write

Specifications

	RD530m SD 6.1 microSD Card	
NAND Type	TLC	
Performance		
Host Interface Rate (maximum)	SD 6.1 (SDR 104)	
Capacities	64GB to 128GB	
Sequential Read (maximum)	Up to 100MB/s	
Sequential Write (maximum)	Up to 90MB/s	
Reliability		
MTBF	> 3,000,000 hours	
Data Reliability	< 1 Non-Recoverable Error in 10 ¹⁶ bits read	
Data Retention	5 years >90% life remaining 1 year at the end of life	
Endurance	128GB: 350 TBW	
(Sequential Workload)1	64GB: 175 TBW	
Environmental		
Shock	Plus with Half-Sine, 1500G/2ms.	
	6 faces, 5 times/face	
Vibration	Displacement: 20-80Hz/1.52mm.	
	Acceleration: 80-2000HZ/20G. 30mins/axis.	
Storage Temperature	Commercial: 0°C to +70°C	
Storage Temperature	-40°C to +85°C	
Humidity	40°C/93%RH@500hrs	
Physical		
Length	15.0mm	
Width	11.0mm	
Thickness	1.0mm	

¹Endurance is directly related to the User Specific Workload.

Ordering Information

Part Number	Density		
RD530m SD 6.1 microSD Card Commercial Operating Temperature (0°C to +70°C)			
SV9UD128GPHKFTCD1	128GB		
SV9UD064GPHKFTCD1	64GB		

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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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