



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 256GB. 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
- Low Power Dissipation
- Onboard Wear-Leveling

Applications

- Automotive
- IIoT
- Medical
- Military

Product Family Overview

Form Factor	Capacity	Sequential Performance
SD 6.1 microSD Card	64GB to 256GB	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 256GB
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 (Sequential Workload) ¹	256GB: 700 TBW 128GB: 350 TBW 64GB: 175 TBW
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
Storage Temperature	Commercial: 0°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	40°C, Operation: 90% RH, Storage: 93% RH
Physical	
Length	15.0mm
Width	11.0mm
Thickness	1.0mm

¹Endurance is directly related to the User Specific Workload.



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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