



RD530 | SD 6.1 | SD Card

SMART's RD530 SD 6.1 SD Cards are fully SD UHS-I compliant. Offered in commercial and industrial temperature versions, the RD530 industrial SD Cards are also a natural fit for mobile and embedded computing, medical, automotive and industrial applications.

SMART's SD Memory Cards offer reliable, high performance operation in an industry standard ultrasonic welded SD housing. They are available in 16 GB capacity. Incorporating on-board error detection and correction algorithms and static and dynamic wear leveling techniques insure SMART's SD Memory Cards provide years of reliable operation.



Features & Benefits

- SD UHS-I Compliant
- Support I-Temp (-40°C to +85°C)
- Static and Dynamic Wear Leveling for Longer Life
- Copyright Protection Mechanism
- Supports CPRM (Content Protection for Recordable Media)
- Built-in Write Protection

Applications

- Automotive
- Embedded Computing
- Medical
- Networking
- Telecommunications

Product Family Overview

Form Factor	Capacity	Sequential Performance
SD 6.1 SD Card	16GB	Up to 100MB/s Read Up to 85MB/s Write

Specifications

RD530 SD 6.1 SD Card	
NAND Type	pSLC
Performance	
Host Interface Rate (maximum)	SD 6.1 (SDR 104)
Capacities	16GB
Sequential Read (maximum)	Up to 100MB/s
Sequential Write (maximum)	Up to 85MB/s
Reliability	
MTBF	> 3,000,000 hours
Data Reliability	< 1 Non-Recoverable Error in 10 ¹⁷ bits read
Data Retention	10 years >90% life remaining 1 year at the end of life
Endurance (Sequential Workload) ¹	16GB: 450 TBW
Environmental	
Shock	Plus with Half-Sine, 500G/2ms. 6 faces, 5 times/face
Vibration	Displacement: 20-80Hz/1.52mm Acceleration: 80-2000HZ/20G 30mins/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/93%RH@500hrs
Physical	
Length	32.0mm
Width	24.0mm
Thickness	2.1mm

¹Endurance is directly related to 128k sequential write workload

Ordering Information

Part Number	Density
RD530 SD 6.1 SD Card Commercial Operating Temperature (0°C to +70°C)	
SV9SD16GPHKFUCD1	16GB
RD530 SD 6.1 SD Card Industrial Operating Temperature (-40°C to +85°C)	
SV9SD16GPHKFUID1	16GB



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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