

# RD230 | SD 6.1 | SD Card

SMART's high-capacity, RD230 SD Cards are fully SD UHS-I compliant. The RD230 SD Cards are offered in industrial temperature with capacities from 32GB to 256GB. They are specifically designed to meet strict environmental requirements as in networking, industrial, gaming and automotive applications.

Incorporating onboard error detection and correction algorithms and static and dynamic wear-leveling techniques, SMART's RD230 SD Cards ensure years of reliable operation over a product's life.



## Features & Benefits

- Capacities: 64GB to 256GB (SDXC), 32GB (SDHC)
- SD UHS-I Compliant
- Support I-Temp (-40°C to +85°C)
- Low Power Dissipation
- Onboard Wear-Leveling

## Applications

- Automotive
- Gaming
- Industrial
- Networking

# Product Family Overview

Form Factor	Capacity	Sequential Performance
SD 6.1	32GB to 256GB	Up to 540MB/s Read
		Up to 460MB/s Write

# Specifications

	RD230   SD 6.1   SD Card	
NAND Type	TLC	
Performance		
Host Interface Rate (maximum)	SD 6.1 (SDR 104)	
Capacities	32GB to 256GB	
Sequential Read (maximum)	Up to 95MB/s	
Sequential Write (maximum)	Up to 55MB/s	
Reliability		
MTBF	> 3,000,000 hours	
Data Reliability	< 1 Non-Recoverable Error in 10 <sup>17</sup> bits read	
Data Retention	10 years >90% life remaining 1 year at the end of life	
	256GB: 700 TBW	
Endurance	128GB: 350 TBW	
(Sequential Workload) <sup>1</sup>	64GB: 175 TBW	
	32GB: 87 TBW	
Environmental		
Shock	1500 g half-sine, 0.5 msec, 1 shock along each axis,	
SHUCK	X, Y, Z in each direction	
Vibration	20G 80-2000Hz, 1.52mm 20-80Hz, 3 axis	
Operating Temperature	Industrial: -40°C to +85°C	
Storage Temperature	-40°C to +85°C	
Humidity	40°C, Operation: 90% RH, Storage: 93% RH	
Physical		
Length	32.0mm	
Width	24.0mm	
Thickness	2.1mm	

<sup>1</sup>Endurance is directly related to 128k sequential write 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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