SMART® Modular Technologies

DuraFlash™

RD130m | SD 3.01 | microSD Card

SMART's DuraFlash RD130m microSD Cards are fully SD compliant. Offered in commercial and industrial temperature versions based on 32nm and 24nm SLC Flash technologies, the RD130m microSD Cards are specifically designed to meet strict industrial operating and environmental requirements.

SMART's RD130m microSD Cards comply with SD v3.01 Standard with performance up to 68MB/s read and 50MB/s write. Incorporating onboard error detection and correction algorithms, and static and dynamic wear-leveling techniques, SMART's microSD Memory Cards ensure years of reliable operation over a product's life.

Features & Benefits

- Capacities:
  - 4GB (SDHC)
  - 1GB, 2GB (SDSC)
- SLC NAND Flash
- Low Power Dissipation
- Onboard Wear-Leveling
- RoHS Compliant

Applications

- Embedded Computing
- Industrial Meters and Industrial Control
- Medical Equipment
- Networking
- Telecom and Communications

Product Family Overview

Capacity	Sequential Performance
RD130m	SD 3.01	microSD Card	
4GB (SDHC)	Up to 68MB/s Read; Up to 50MB/s Write
1GB, 2GB (SDSC)	Up to 23MB/s Read; Up to 22MB/s Write

Specifications

	RD130m | SD 3.01 | microSD Card
NAND Type	SLC
Performance	
Sequential Read (maximum)	Up to 68MB/s (4GB)
	Up to 23MB/s (1GB, 2GB)
Sequential Write (maximum)	Up to 50MB/s (4GB)
	Up to 22MB/s (1GB, 2GB)
Capacity	
Capacity	1GB to 4GB
Power	
Vcc	2.7 - 3.6 V
Environmental	
Operating Temperature	Extended: -25°C to +85°C
	Industrial: -40°C to +85°C
Storage Temperature	-40°C to +85°C
Humidity	25% to 95%
Physical	
Length	15 mm
Width	11 mm
Height	0.7/1.0 mm

Ordering Information

Part Number	Density
RD130m | SD 3.01 | microSD Card **Extended Operating Temperature (-25°C to +85°C)**	
SS9UD004GPHE8SE32	4GB
SS9UD002GPHE8SE32	2GB
SS9UD001GPHE8SE32	1GB
RD130m | SD 3.01 | microSD Card **Industrial Operating Temperature (-40°C to +85°C)**	
SS9UD004GPHE8SI32	4GB
SS9UD002GPHE8SI32	2GB
SS9UD001GPHE8SI32	1GB

SMART ®
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