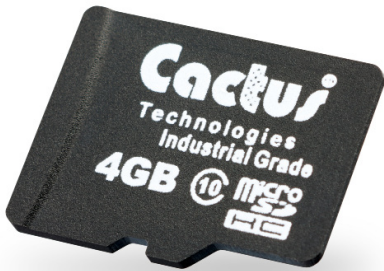


# Secure Digital® microSD Card (SD) 803M Series



The Cactus Technologies Secure Digital microSD Card (SD) - 803M Series is a low capacity solid-state flash memory product that complies with the Secure Digital Card Association (SDA) standard. Cactus microSD Cards provide up to 4GB (Class 6) of formatted storage capacity and are designed to be used in applications which require reliable, high performance solid state storage in a small form factor.

## CACTUS MICROSD FEATURES

- **INDUSTRY STANDARD MICROSD CARD VERSION 1.1 AND 2.0**
- **CARD CAPACITIES**
  - 1GB to 4GB
- **INTERFACE SUPPORTS**
  - SD Interface
  - SPI Mode
- **VOLTAGE RANGE**
  - 2.7V to 3.6V
- **TRACEABILITY ELECTRONIC CODE**
- **SOLID STATE DESIGN WITH NO MOVING PARTS**
- **INDUSTRY LEADING**
  - Data Reliability
  - Shock & Vibration
  - Operating Temp Range
  - Data Transfer Rates
- **ZERO DB NOISE**
- **4-MILLION HOUR MTBF**
- **5-YEAR WARRANTY**



### PERFORMANCE

**Read Data Transfer Rate**

up to 20MB/sec

**Write Data Transfer Rate**

up to 17MB/sec



### RELIABILITY

- Supports Wear Leveling
- Error Checking & Correction
- Less Than 1 Error in 10<sup>14</sup> Bits Read
- MTBF 4,000,000 Hours



### ENVIRONMENTAL & POWER

**Operating Temperature Range**

Standard -25°C to +85°C

Extended -45°C to +90°C



### POWER CONSUMPTION

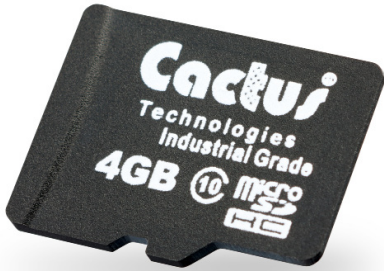
	3.3V ± 10%
Read	60mA
Write	80mA
Sleep	200uA



### SHOCK & VIBRATION

Shock	50G
Vibration	15G peak-to-peak

CACTUS TECHNOLOGIES  
 Secure Digital® microSD (SD)  
**803M Series**



**INDUSTRIAL GRADE MICROSD CARD**

→ INTERFACE	SD Card Version 1.1 and Version 2.0	
→ INTERFACE TRANSFER RATE	25MB/sec	
→ POWER REQUIREMENT	DC Input Voltage	3.3V ± 10%
	Sleep	200uA
	Read	60mA
	Write	80mA
→ ENVIRONMENTAL SPECIFICATION	Standard Temperature	-25°C to +85°C
	Extended Temperature	-45°C to +90°C
	Humidity	8-95%, non-condensing
	Acoustic Noise	0dB
	Vibration	15G peak to peak max.
	Shock	50G max.
	Altitude	100,000 feet max.
→ RELIABILITY AND MAINTENANCE	Endurance	2,000,000 erase cycles per block
	MTBF	4,000,000 Hours
	Data Reliability	less than 1 Error in 10 <sup>15</sup> bits read
→ CARD CAPACITY	1GB to 4GB	

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