CACTUS TECHNOLOGIES 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 Secutre 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 10¹⁴ Bits Read
- MTBF 4,000,000 Hours

ENVIRONMENTAL & POWER

Operating Temperature RangeStandard-25°C to +85°CExtended-45°C to +90°C

POWER CONSUMPTION

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

SHOCK & VIBRATION

Shock Vibration 50G 15G peak-to-peak

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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 ¹⁵ bits read
→ CARD CAPACITY	1GB to 4GB	

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