

Secure Digital® Memory Card (SD) 806 Series



The Cactus Technologies Secure Digital Memory Card (SD) - 806 Series is a low capacity solid-state flash memory product that complies with the Secure Digital Card Association (SDA) standard. Cactus SD Cards and SDChips provide up to 8GB (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 SD CARD FEATURES

- **INDUSTRY STANDARD SD CARD VERSION 1.1 AND 2.0**
- **CARD CAPACITIES**
 - 128MB to 8GB
- **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 Range

Standard -25°C to +85°C

Extended -45°C to +90°C



POWER CONSUMPTION

	3.3V ± 10%
Read	40mA
Write	75mA
Sleep	180uA



SHOCK & VIBRATION

Shock	50G
Vibration	15G peak-to-peak

CACTUS TECHNOLOGIES
Secure Digital® Memory Card (SD)
806 Series



INDUSTRIAL GRADE SECURE DIGITAL 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	180uA
	Read	40mA
→ ENVIRONMENTAL SPECIFICATION	Write	75mA
	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.
→ RELIABILITY AND MAINTENANCE	Shock	50G max.
	Altitude	100,000 feet max.
	Endurance	2,000,000 erase cycles per block
→ CARD CAPACITY	MTBF	4,000,000 Hours
	Data Reliability	less than 1 Error in 10 ¹⁵ bits read

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