

# Secure Digital® Memory Card (SD) 808 Series



The Cactus Technologies Secure Digital Memory Card (SD) - 808 Series is a low capacity solid-state flash memory product that complies with the Secure Digital Card Association (SDA) standard. Cactus SD Cards provide up to 16GB (Class 10) 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 VERSIONS 1.01, 1.1, 2.0 AND 3.01**
- **CARD CAPACITIES**
  - 512MB to 16GB
- **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 28MB/sec

**Write Data Transfer Rate**

up to 23MB/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%
<b>Read</b>	75mA
<b>Write</b>	85mA
<b>Sleep</b>	1mA



### SHOCK & VIBRATION

<b>Shock</b>	50G
<b>Vibration</b>	15G peak-to-peak

CACTUS TECHNOLOGIES

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## INDUSTRIAL GRADE SECURE DIGITAL

→ INTERFACE	SD Card Versions 1.01, 1.1, 2.0 and 3.01	
→ INTERFACE TRANSFER RATE	50MB/sec	
→ POWER REQUIREMENT	DC Input Voltage	3.3V ± 10%
	Sleep	1mA
	Read	75mA
	Write	85mA
→ 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	128MB to 8GB	

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