CACTUS TECHNOLOGIES Secure Digital® Memory Card (SD) 220 Series





The Cactus Technologies Secure Digital Memory Card (SD) -

220 Series is a solid-state flash memory product that complies with the Secure Digital Card Association (SDA) standard. Cactus SD Cards provide up to 64GB (Class 10) of formatted storage capacity and are designed to be used in applications which require 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
 4GB to 64GB
- INTERFACE SUPPORTS
 SD Interface
 - SPI Mode
- VOLTAGE RANGE
 2.7V to 3.6V
- BASED ON MLC NAND FLASH
- SOLID STATE DESIGN WITH NO MOVING PARTS
- INDUSTRY LEADING
 - Data Reliability
 - Shock & Vibration
 - Data Transfer Rates
- ZERO DB NOISE
- 2-YEAR WARRANTY

PERFORMANCE

Read Data Transfer Rate up to 35MB/sec

Write Data Transfer Rate up to 20MB/sec

RELIABILITY

- Supports Wear Leveling
- Error Checking & Correction
- Less Than 1 Error in 1014 Bits Read

ENVIRONMENTAL & POWER

Operating Temperature RangeStandard-25°C to +85°CExtendedContact Cactus

POWER CONSUMPTION

Read Write Sleep 3.3V ± 10% **85** mA 120 mA 1 mA

SHOCK & VIBRATION

Shock Vibration 50G 15G peak-to-peak

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COMMERCIAL GRADE SECURE DIGITAL CARD

→ INTERFACE	SD Card Version 1.1, 2.0 and 3.0	
➔ INTERFACE TRANSFER RATE	SDR50 (50MB/sec)	
→ POWER REQUIREMENT	DC Input Voltage	3.3V ± 10%
	Sleep	1 mA
	Read	85 mA
	Write	120 mA
ENVIRONMENTAL SPECIFICATION	Standard Temperature	-25°C to +85°C
	Extended Temperature	Contact Cactus
	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	100,000 erase cycles per block
	MTBF	200,000 Hours
	Data Reliability	less than 1 Error in 10 ¹⁵ bits read
→ CARD CAPACITY	4GB to 64GB	

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