

CACTUS TECHNOLOGIES
PCMCIA® Memory Card (PC)
203 Series



The Cactus Technologies PCMCIA® Memory Card (PC) - 203 Series is a high capacity solid-state flash memory product that complies with the Personal Computer Memory Card International Association (PCMCIA) ATA (PC Card ATA) standard. It also supports True IDE Mode, which is electrically compatible with an IDE disk drive. PC card ATA Memory Cards provide up to 16GB of formatted storage capacity in the PC card 5.0 mm form factor.

CACTUS PC CARD FEATURES

- ➔ **INDUSTRY STANDARD PC CARD 5.0 MM FORM FACTOR**
- ➔ **CARD CAPACITIES**
 - 32MB to 16GB
- ➔ **INTERFACE SUPPORTS**
 - True IDE Mode
 - ATA PIO Mode 0-4
 - Multiword DMA Mode 2
- ➔ **DUAL VOLTAGE SUPPORT**
 - 3.3V or 5.0V
- ➔ **UNIQUE ELECTRONIC SERIAL CARD ID**
- ➔ **TRACEABILITY BARCODE**
- ➔ **SOLID STATE DESIGN WITH NO MOVING PARTS**
- ➔ **RELIABILITY**
 - High Data Reliability
 - High Shock & Vibration Tolerances
 - Wide Operating Temp Range
- ➔ **ZERO DB NOISE**
- ➔ **4-MILLION HOUR MTBF**
- ➔ **5-YEAR WARRANTY**



PERFORMANCE

Read Data Transfer Rate

up to 8MB/sec

Write Data Transfer Rate

up to 6MB/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 0°C to 70°C

Extended -45°C to +90°C



POWER CONSUMPTION

	3.3V	5.0V
Read	45mA	47mA
Write	53mA	58mA
Sleep	0.4mA	0.8mA



SHOCK & VIBRATION

Shock	2,000G
Vibration	30G peak-to-peak

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INDUSTRIAL GRADE PCMCIA CARD

→ INTERFACE	PC Card ATA and True IDE Mode	
→ INTERFACE TRANSFER RATE	16.70MB/sec	
→ POWER REQUIREMENT	DC Input Voltage	3.3V ± 10% or 5V ± 10%
	Sleep	0.4mA 0.8mA
	Read	45mA 47mA
→ ENVIRONMENTAL SPECIFICATION	Write	53mA 58mA
	Standard Temperature	0°C to 70°C
	Extended Temperature	-45°C to +90°C
	Humidity	8-95%, non-condensing
	Acoustic Noise	0dB
	Vibration	30G peak to peak max.
→ RELIABILITY AND MAINTENANCE	Shock	2000G max.
	Altitude	70,000 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 ¹⁴ bits read

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