

# CompactFlash® Memory Card (CF) 503 Series



## The Cactus Technologies CompactFlash® Memory Card (CF) - 503 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. CompactFlash Memory Cards provide up to 64GB of formatted storage capacity in the CF Type I form factor.

## CACTUS CF CARD FEATURES

- **INDUSTRY STANDARD CF TYPE I FORM FACTOR**
- **CARD CAPACITIES**
  - 1GB to 64GB
- **INTERFACE SUPPORTS**
  - True IDE Mode
  - ATA PIO Mode 0-6
  - Multiword DMA Mode 0-4
  - UDMA Mode 0-6
  - SMART Feature Set
- **DUAL VOLTAGE SUPPORT**
  - 3.3V or 5.0V
- **UNIQUE ELECTRONIC SERIAL CARD ID**
- **TRACEABILITY BARCODE**
- **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 50MB/sec

#### Write Data Transfer Rate

up to 30MB/sec



### RELIABILITY

- Advanced Wear Leveling Algorithm
- Error Checking & Correction
- Less Than 1 Error in 10<sup>14</sup> Bits Read
- MTBF 4,000,000 Hours
- >2,000,000 erase/program cycles



### ENVIRONMENTAL & POWER

#### Operating Temperature Range

Standard 0°C to 70°C

Extended -45°C to +90°C



### POWER CONSUMPTION

	5.0V
Read	165mA
Write	105mA
Sleep	4mA



### SHOCK & VIBRATION

Shock	3,000G
Vibration	30G peak-to-peak

CACTUS TECHNOLOGIES  
**CompactFlash® Memory Card (CF)**  
**503 Series**



**INDUSTRIAL GRADE COMPACTFLASH CARD**

→ INTERFACE	PC Card ATA, True IDE Mode, CFA 4.1 & 5.0 and ANSI: ATA7 Compliant	
→ INTERFACE TRANSFER RATE	133MB/sec	
→ POWER REQUIREMENT	DC Input Voltage	3.3V or 5V ± 10%
	Sleep	4mA
	Read	165mA
	Write	105mA
→ ENVIRONMENTAL SPECIFICATION	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.
	Shock	3000G 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>14</sup> bits read
→ CARD CAPACITY	1GB to 64GB	

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