

## The Cactus Technologies CompactFlash® Memory Card (CF)

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 8GB of formatted storage capacity in the CF Type I form factor



### Cactus CF Card Features

- Industry Standard CF Type I Form Factor
- Card Capacities 32MB to 8GB
- Supports True IDE Mode
- Supports ATA PIO Mode 0-4
- Supports Multiword DMA 2
- Dual Voltage Support: 3.3V or 5.0V
- Unique Electronic Serial Card ID
- Supports Traceability Barcode
- Solid State Design With No Moving Part
- Fast Data Transfer Rates
- High Data Reliability
- High Shock & Vibration Tolerances
- Wide Operating Temperature Range
- Zero dB Noise
- 4-Million Hour MTBF
- 5-year Warranty

### Performance

Read Data Transfer Rate : 8MB/sec  
Write Data Transfer Rate : 6MB/sec

### Reliability

Supports Wear Leveling  
Supports ECC  
Less Than 1 Error in 10<sup>14</sup> Bits Read  
MTBF 4,000,000 Hours

### Environmental & Power

Operating Temperature range  
Standard : 0°C to 70°C  
Industrial : -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 : 3,000G  
Vibration : 30G peak-to-peak

## Industrial Grade CompactFlash Card

Interface	PC Card ATA and True IDE Mode		
Performance (Max)	16.70 MB/sec		
Power Requirement	DC Input Voltage	3.3V ± 10%	5V ± 10%
	Sleep	0.4mA	0.8mA
	Read	45mA	47mA
	Write	53mA	58mA

Environmental Specification	Standard Temperature	0-70°C
	Extended Temperature	-45°C to +90°C
	Humidity	8-95%, non-condensing
	Acoustic Noise	0 dB
	Vibration	30G peak to peak max.
	Shock	3000G max.
	Altitude	70,000 feet max.
Reliability and Maintenance	Endurance	2,000,000 erase cycles per block
	MTBF	4,000,000 Hours
Card Capacity	Data Reliability	less than 1 Error in 10 <sup>14</sup> bits read
		32MB – 8GB

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