

Industrial Compact-Flash Memory Card (CF)



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 16GB of formatted storage capacity in the CF Type I form factor.



Cactus CF Card Features

- ◆ Industry Standard CF Type I Form Factor
- ◆ Capacities: 128MB to 16GB
- ◆ Pro Revision with additional Security Features
- ◆ Interface Supports:
 - True IDE Mode
 - ATA PIO Mode 0 - 6
 - Multiword DMA Mode 0 - 4
 - UDMA Mode 0 - 4*
- ◆ 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 Temperature Range
 - Data Transfer Rates
- ◆ Zero dB Noise
- ◆ 4-Million Hour MTBF
- ◆ 5-year Warranty
- ◆ On request the CF Cards are also available with a Write-Protect Switch

*For reliable transfers at UDMA Mode 4, proper termination on host and device side required

Performance

Read Data Transfer Rate: 35MB/sec
 Write Data Transfer Rate: 20MB/sec

Reliability

Advanced Wear Leveling Algorithm
 Error Checking & Correction
 Less than 1 Error in 10^{14} 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
 5V ±10%
 Read: 220mA
 Write: 180mA
 Sleep: 0.5mA

Shock & Vibration (MIL-STD-883G)
 Shock: 3,000G
 Vibration: 30G peak to peak



Industrial Grade CompactFlash[®] Card

Interface	PC Card ATA and True IDE Mode	
Interface Transfer Rate	66 MB/sec	
Power Requirement	DC Input Voltage	3.3V or 5.0V ±10%
	Sleep	0.5mA
	Read	220mA
	Write	180mA
Environmental Specification	Standard Temperature	0°C to +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	3,000G 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 ¹⁴ Bits read
Card Capacity	128MB – 16GB	
Features of Pro Version	ATA Security Feature Set CTPurge [®] CTLock [®] Write Protect	

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