

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 32GB of formatted storage capacity in the CF Type I form factor



Cactus CF Card Features

- Industry Standard CF Type I Form Factor
- Card Capacities: 128MB to 32GB
- 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 Temp Range
 - Data Transfer Rates
- Zero dB Noise
- 4-Million Hour MTBF
- 5-year Warranty

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 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

	5.0V
Read	: 220mA
Write	: 180mA
Sleep	: 0.5mA

Shock & Vibration

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 : 3V or 5V ± 10%
	Sleep : 0.5mA
	Read : 220mA
	Write : 180mA
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 : 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 – 32GB

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



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