

CACTUS TECHNOLOGIES PCMCIA® Memory Card (PC) 303 Pro Series



The **Cactus Technologies PC Card - 303 Pro 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. In addition to the normal features found on the 303 Series PC Card, the Pro Series offers several security, purge, and write protect features.

CACTUS CF PRO FEATURES

- ➔ **ATA SECURITY FEATURE SET:**
 - Set/Disable Password
 - Security Lock/Unlock
 - Additional Functions
- ➔ **CTPURGE: GENERIC ERASE OPTIONS:**
 - Erase Only
 - Erase and Overwrite with random data once
 - Erase and Overwrite with random data N times
- ➔ **CTPURGE: ERASE OPTIONS ACCORDING TO:**
 - USA-AF AFSSI 5020 spec
 - USA Navy NAVSO P-5239-26 spec
 - DoD 5220.22-M spec
 - NSA Manual 130-2 spec
 - USA-Army 380-19 spec
 - NISPOMSUP Chap.8, Sect.8-501 spec
 - IREC (IRIG) 106 specification
 - Others upon customer request
- ➔ **CTLOCK: SIMPLIFIED LOCK/UNLOCK COMMAND**
- ➔ **CTWPROT - WRITE PROTECT:**
 - Software Command



PERFORMANCE

Read Data Transfer Rate

up to 35MB/sec

Write Data Transfer Rate

up to 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

	5.0V
Read	220mA
Write	180mA
Sleep	0.5mA



SHOCK & VIBRATION

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

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303 Pro Series



INDUSTRIAL GRADE PC CARD PRO SERIES

→ INTERFACE	PC Card ATA and True IDE Mode		
→ INTERFACE TRANSFER RATE	66MB/sec		
→ POWER REQUIREMENT	DC Input Voltage	3V or 5V ± 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		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 ¹⁴ bits read	
→ CARD CAPACITY	128MB to 32GB		

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