

## The Cactus Technologies PCMCIA® Memory Card

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. PC card ATA Memory Cards provide up to 16GB of formatted storage capacity in the PC card 5.0 mm form factor.



### 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             | 0.4uA | 0.8uA |

Shock & Vibration  
Shock : 2,000G  
Vibration : 30G peak-to-peak

### Cactus PC Card Features

- Industry Standard PC card 5.0 mm Form Factor
- Card Capacities 32MB to 16GB
- 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

### Industrial Grade PCMCIA 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     |
|                             | Standard Temperature          | 0-70°C  |          |
| Environmental Specification | Extended Temperature          | -45°C to +90°C                                  |          |
|                             | Humidity                      | 8-95%, non-condensing                           |          |
|                             | Acoustic Noise                | 0 dB  |          |
|                             | Vibration                     | 30G peak to peak max.                           |          |
|                             | Shock                         | 2,000G 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 – 16GB                                     |          |

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