

# CACTUS TECHNOLOGIES CFast Card 900S Series



The **Cactus Technologies CFast Card - 900S Series** is a high capacity solid state flash memory product that complies with the serial ATA 2.6 standard and is functionally compatible with a SATA Hard Disk Drive. Cactus Technologies CFast cards provide up to 128GB of formatted storage capacity.

## CACTUS CFAST CARD FEATURES

- **INDUSTRY STANDARD CFAST FORM FACTOR**
- **CARD CAPACITIES**
  - 1GB to 128GB
- **SUPPORTS SATA I/II 1.5/3.0 GBPS TRANSFER RATE**
- **COMPLIANT WITH:**
  - Serial ATA 2.6 Spec
  - ANSI ATA 8 Spec
  - CFA CFast 1.0 Spec
- **3.3V OPERATION**
- **UNIQUE ELECTRONIC DEVICE ID**
- **TRACEABILITY BARCODE**
- **SMART LIFE CYCLE ANALYSIS OPTION**
- **SOLID STATE DESIGN**
- **RELIABILITY**
  - High Data Reliability
  - High Shock & Vibration Tolerances
  - Wide Operating Temp Range
- **4-MILLION HOUR MTBF**
- **5-YEAR WARRANTY**



### PERFORMANCE

#### Read Data Transfer Rate

up to 110MB/sec

#### Write Data Transfer Rate

up to 90MB/sec



### RELIABILITY

- Industrial Wear Leveling
- Industrial 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

|       |       |
|-------|-------|
|       | 3.3V  |
| Read  | 220mA |
| Write | 300mA |
| Sleep | 75mA  |



### SHOCK & VIBRATION

|           |                  |
|-----------|------------------|
| Shock     | 3,000G           |
| Vibration | 20G peak-to-peak |

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CFast Card  
900S Series



INDUSTRIAL GRADE CFAST CARD

|                               |  |   |
|-------------------------------|--|---|
| → INTERFACE                   | CFast 1.0 Spec; ANSI ATA 8 Spec; Serial ATA 2.6 Spec |   |
| → INTERFACE TRANSFER RATE     | 3.0Gb/sec  |   |
| → POWER REQUIREMENT           | DC Input Voltage                                     | 3.3V ± 10%                                      |
|                               | Sleep  | 75mA  |
|                               | Read   | 220mA   |
|                               | Write  | 300mA   |
| → 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  | 20G 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 <sup>14</sup> bits read |
| → CARD CAPACITY               | 1GB to 128GB   |   |

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