

CACTUS TECHNOLOGIES
mSATA Solid State Drive (SSD)
900S Series



The Cactus Technologies mSATA Solid State Drive (SSD) - 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 mSATA SSDs provide up to 64GB of formatted storage capacity.

CACTUS MSATA SSD FEATURES

- **INDUSTRY STANDARD MSATA FORM FACTOR**
- **MODULE CAPACITIES**
 - 4GB to 64GB
- **SUPPORTS SATA I/II 1.5/3.0 GBPS TRANSFER RATE**
- **COMPLIANT WITH:**
 - Serial ATA 2.6 Spec
 - ANSI ATA 8 Spec
- **3.3V OPERATION**
- **UNIQUE ELECTRONIC DEVICE ID**
- **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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INDUSTRIAL GRADE MSATA SSD

| | | |
|-------------------------------|--|---|
| → INTERFACE | mSATA Serial ATA 2.6 Spec; ANSI ATA 8 Spec | |
| → INTERFACE TRANSFER RATE | 3.0Gb/sec | |
| → POWER REQUIREMENT | DC Input Voltage | 3.3V ± 10% |
| | Sleep | 75mA |
| | Read | 220mA |
| | Write | 300mA |
| | Standard Temperature | 0°C to 70°C |
| | Extended Temperature | -45°C to +90°C |
| → ENVIRONMENTAL SPECIFICATION | 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 ¹⁴ bits read |
| → CARD CAPACITY | 4GB to 64GB | |

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