The Cactus Technologies Solid State Drive (SSD) - 910S Pro Series is a high capacity solid-state flash memory product that complies with the Serial ATA 3.0 standard and is functionally compatible with a SATA hard disk drive. Cactus Technologies® -910S Pro Series SSD provide up to 640GB of formatted storage capacity and have the added features of AES256 Encryption as well as Quick Erase via a hardware jumper.

### Cactus SATA III SSD Features

- **Industry Standard 2.5” Form Factor**
- **SSD Capacities**
  - 64GB to 640GB
- **AES256 Encryption**
- **Quick Erase** (512GB in <15 seconds)
- **Supports SATA I/II/III**
  - 1.5/3.0/6.0 GBPS Transfer Rate
- **5V Operation**
- **Supports:**
  - ATA SMART Feature Set
  - ATA Security Feature Set
  - SATA NCQ w/ max. 32 Queue depth
  - SATA partial and slumber modes
- **Unique Electronic Device ID**
- **Up to 60K IOPS**
- **Traceability Barcode**
- **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
    - Read: 470mA
    - Write: 660mA
    - Standby: 230mA
- **Shock & Vibration**
  - Shock: 3,000G
  - Vibration: 20G peak-to-peak

### Performance

- **Read Data Transfer Rate**
  - Up to 430MB/sec
- **Write Data Transfer Rate**
  - Up to 440MB/sec

### Reliability

- **High Data Reliability**
- **High Shock & Vibration Tolerances**
- **Wide Operating Temp Range**

### Power Consumption

- **Power Supply**
  - 5.0V
  - Read: 470mA
  - Write: 660mA
  - Standby: 230mA

### Shock & Vibration

- **Shock**
  - 3,000G
- **Vibration**
  - 20G peak-to-peak
# 2.5” Solid State Drive (SSD)

## 910S Pro Series

### Industrial Grade Solid State Drive

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INTERFACE</strong></td>
<td>ANSI ATA8-ACS2 Spec; Serial ATA 3.0 Spec</td>
</tr>
<tr>
<td><strong>INTERFACE TRANSFER RATE</strong></td>
<td>6.0Gb/sec</td>
</tr>
<tr>
<td><strong>POWER REQUIREMENT</strong></td>
<td></td>
</tr>
<tr>
<td>DC Input Voltage</td>
<td>5V ± 10%</td>
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<tr>
<td>Standby</td>
<td>230mA</td>
</tr>
<tr>
<td>Read</td>
<td>470mA</td>
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<tr>
<td>Write</td>
<td>660mA</td>
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<tr>
<td><strong>ENVIRONMENTAL SPECIFICATION</strong></td>
<td></td>
</tr>
<tr>
<td>Standard Temperature</td>
<td>0°C to 70°C</td>
</tr>
<tr>
<td>Extended Temperature</td>
<td>-45°C to +90°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>8-95%, non-condensing</td>
</tr>
<tr>
<td>Acoustic Noise</td>
<td>0dB</td>
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<tr>
<td>Vibration</td>
<td>20G peak to peak max.</td>
</tr>
<tr>
<td>Shock</td>
<td>3000G max.</td>
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<tr>
<td>Altitude</td>
<td>100,000 feet max.</td>
</tr>
<tr>
<td><strong>RELIABILITY AND MAINTENANCE</strong></td>
<td></td>
</tr>
<tr>
<td>Endurance</td>
<td>2,000,000 erase cycles per block</td>
</tr>
<tr>
<td>MTBF</td>
<td>4,000,000 Hours</td>
</tr>
<tr>
<td>Data Reliability</td>
<td>less than 1 Error in $10^{14}$ bits read</td>
</tr>
<tr>
<td><strong>CARD CAPACITY</strong></td>
<td>64GB to 640GB</td>
</tr>
</tbody>
</table>

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