The Cactus Technologies 2.5” SATA II SSD - 220S Series is a high capacity solid state flash memory product that complies with the serial ATA 2.6 standard, ATA-8 and is functionally compatible with a SATA Hard Disk Drive. Cactus Technologies 2.5” SATA II SSDs provide up to 256GB of formatted storage capacity.

CACTUS SATA II SSD FEATURES

- **INDUSTRY STANDARD 2.5” SATA II SSD FORM FACTOR**
- **SSD CAPACITIES**
  - 4GB to 256GB
- **SUPPORTS SATA I/II 1.5/3.0 GBPS TRANSFER RATE**
- **COMPLIANT WITH:**
  - Serial ATA 2.6 Spec
  - ANSI ATA-8 Spec
- **5.0V OPERATION**
- **UNIQUE ELECTRONIC DEVICE ID**
- **TRACEABILITY BARCODE**
- **SMART LIFE CYCLE ANALYSIS OPTION**
- **SOLID STATE DESIGN**
- **RELIABILITY**
  - Wear Leveling
  - Error Checking & Correction
  - Less Than 1 Error in $10^{14}$ Bits Read
  - MTBF 200,000 Hours
- **200K HOUR MTBF**
- **2-YEAR WARRANTY**

PERFORMANCE

- **Read Data Transfer Rate**
  - up to 240 MB/sec
- **Write Data Transfer Rate**
  - up to 75 MB/sec

RELIABILITY

- **Operating Temperature Range**
  - Standard: 0°C to 70°C
  - Extended: Contact Cactus

POWERS CONSUMPTION

- **Read**
  - 170mA
- **Write**
  - 110mA
- **Sleep**
  - 75mA

SHOCK & VIBRATION

- **Shock**
  - 3,000G
- **Vibration**
  - 20G peak-to-peak
## Cactus Technologies
### 2.5" SATA II SSD
#### 220S Series

## Commercial Grade 2.5" SATA II SSD

<table>
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<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td><strong>Interface</strong></td>
<td>ANSI ATA 8 Spec; Serial ATA 2.6 Spec</td>
</tr>
<tr>
<td><strong>Interface Transfer Rate</strong></td>
<td>3.0Gb/sec</td>
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<tr>
<td><strong>Power Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>DC Input Voltage</td>
<td>5.0V ± 10%</td>
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<tr>
<td>Sleep</td>
<td>75mA</td>
</tr>
<tr>
<td>Read</td>
<td>170mA</td>
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<tr>
<td>Write</td>
<td>110mA</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>Contact Cactus</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>
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<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>
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<tr>
<td>Endurance</td>
<td>100,000 erase cycles per block</td>
</tr>
<tr>
<td>MTBF</td>
<td>200,000 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>4GB to 256GB</td>
</tr>
</tbody>
</table>

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