The Cactus Technologies USB Disk-On-Module (DOM) - 100 Series is a low capacity solid state flash memory product that complies with the USB2.0 standard. Cactus uDOMs provide up to 8GBs of formatted storage capacity and are designed to plug in directly to 10-pin USB headers on industrial PC motherboards. Cactus uDOMs are designed to be used in applications which require a low capacity solid state disk that is compatible with the USB interface.

### Cactus USB DOM

- **Industry Standard USB2.0 Interface**
- **Module Capacities**
  - 128MB to 8GB
- **Plugs into Industry Standard 10-Pin USB Headers**
- **Voltage Support**
  - 5.0V
- **Unique Electronic Serial ID**
- **Compliant with USB Mass Storage Class Spec V1.0**
- **Supports Booting from USB Device**
- **Standard or Low Profile Configurations**
- **Solid State Design with No Moving Parts**
- **Reliability**
  - Supports Wear Leveling
  - Supports ECC
  - Less Than 1 Error in 10\(^{14}\) Bits Read
  - MTBF 6,500,000 Hours
- **Performance**
  - Read Data Transfer Rate
    - up to 33MB/sec
  - Write Data Transfer Rate
    - up to 26MB/sec
- **Environmental & Power**
  - Operating Temperature Range
    - Standard: 0°C to 70°C
    - Extended: -45°C to +90°C
- **Power Consumption**
  - Read: 130mA
  - Write: 130mA
  - Standby: 58mA
- **Shock & Vibration**
  - Shock: 3000G
  - Vibration: 20G peak-to-peak
- **Zero DB Noise**
- **6.5-Million Hour MTBF**
- **5-Year Warranty**
## USB Disk-On-Module (DOM) 100 Series

### Industrial Grade USB DOM

<table>
<thead>
<tr>
<th><strong>Category</strong></th>
<th><strong>Details</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Interface</strong></td>
<td>Industry Standard USB2.0</td>
</tr>
<tr>
<td><strong>Interface Transfer Rate</strong></td>
<td>35MB/sec</td>
</tr>
<tr>
<td><strong>Power Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>DC Input Voltage</td>
<td>5V ± 10%</td>
</tr>
<tr>
<td>Standby</td>
<td>58mA</td>
</tr>
<tr>
<td>Read</td>
<td>130mA</td>
</tr>
<tr>
<td>Write</td>
<td>130mA</td>
</tr>
<tr>
<td><strong>Environment 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>
</tr>
<tr>
<td>Vibration</td>
<td>20G peak to peak max.</td>
</tr>
<tr>
<td>Shock</td>
<td>3000G max.</td>
</tr>
<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>6,500,000 Hours</td>
</tr>
<tr>
<td>Data Reliability</td>
<td>less than 1 Error in $10^{14}$ bits read</td>
</tr>
<tr>
<td><strong>Module Capacity</strong></td>
<td>128MB to 8GB</td>
</tr>
</tbody>
</table>

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