**Industrial Nano USB**

**Features**
- -40°~85°C operation
- Excellent data transfer speed
- Intelligent system for error recovery
- Enhanced power cycling
- ESD proof
- i-S.M.A.R.T utility for health monitor

**Specifications**

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Type A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Type</td>
<td>SLC</td>
</tr>
<tr>
<td>Density</td>
<td>1GB~8GB</td>
</tr>
<tr>
<td>Interface</td>
<td>USB 2.0</td>
</tr>
<tr>
<td>Sequential R/W Performance, Max, MB/sec</td>
<td>4GB/8GB: 19/17, 2GB: 18/15, 1GB: 18/13</td>
</tr>
<tr>
<td>ESD Proof</td>
<td>Air Discharge: 15KV, Contact Discharge: 8KV</td>
</tr>
</tbody>
</table>

**Environmental**

- DC Input: 5V DC ± 5%
- Power consumption (Max.):
  - Read: 90mA
  - Write: 90mA
  - Idle: 60mA
- Operating Temperature: 0°C to +70°C (Standard Grade), -40°C to +85°C (Industrial Grade)
- Storage Temperature: -55°C to +95°C
- Humidity: Relative Humidity: 10-95%, non-condensing
- Flash Endurance: 100,000 program/erase cycles
- MTBF: > 3,000,000 hours
- Certification: CE, FCC, RoHS
- Warranty: 5 years

**Mechanicals**

- Dimension: (W x L x H) 15.4 x 19.4 x 6.9 (±0.2mm)
- Weight: 2.6g
- Vibration: 7 Hz to 2K Hz, 5G, 3 axes
- Shock: Duration: 0.5ms, 50G, 3 axes

**Ordering Information**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Standard Grade</th>
<th>Industrial Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>1GB</td>
<td>DEUN-01G23AC1SB</td>
<td>DEUN-01G23AW1SB</td>
</tr>
<tr>
<td>2GB</td>
<td>DEUN-02G23AC1ST</td>
<td>DEUN-02G23AW1ST</td>
</tr>
<tr>
<td>4GB</td>
<td>DEUN-04G23AC1ST</td>
<td>DEUN-04G23AW1ST</td>
</tr>
<tr>
<td>8GB</td>
<td>DEUN-08G23AC1ST</td>
<td>DEUN-08G23AW1ST</td>
</tr>
</tbody>
</table>

**USB SERIES**

- R: 19MB
- W: 17MB
- USB 2.0
- ESD Proof
- i-S.M.A.R.T Utility
- ECC & Wear Leveling

**Ver. 2013/9/12**
Mechanical Dimension

Industrial Nano USB mechanical dimensions
(∗Tolerance is ±0.2mm)

i-S.M.A.R.T Utility

![SmartInfo_V4.0](image)

- Drive:
  - F:
  - Detect
- Smart Information:
  - Average Erase Count: 0.00085168%
  - ECC Uncorrectable Count: 0
  - Abnormal Shutdown Count: 0
  - Flash Type: SLC
  - Power Cycle Count: 85
  - Initial Bad Block Count: 0
  - Spare Block Count: 22
  - Later Bad Block Count: 0
- Get SmartInfo
- Save SmartInfo