**Features and Benefits**
- Compact
- Durable
- Sealable design
- Easy to integrate
- Ultra-thin mounting profile

**Description**
Both Mini Joystick and Finger Disk modules are dual click-button mousing devices designed for integration into tight, cramped spaces. The MicroModule is plug-and-play, utilizing standard mouse output. Several cabling options are available.

**User Control Options**
The touch of a fingertip on the MicroModule delivers simultaneous 360° control of cursor direction and speed. Choose from 2 actuators styles, either Mouse Button (round disk with a divot for a fingertip), or a Mini Joystick (a compact stick).
### Device Characteristics

**Keypad Options**
- Black finger disk, gray finger disk, black mini joystick, black finger disk fluorosilicone

**Weight**
- 15 grams or less

**Operating Temperature Performance**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cold Dry</td>
<td>-25°C &lt;=5%RH for 96 hours</td>
</tr>
<tr>
<td>Cold Humid</td>
<td>10°C 95%RH for 96 hours</td>
</tr>
<tr>
<td>Hot Dry</td>
<td>70°C &lt;=10%RH for 96 hours</td>
</tr>
<tr>
<td>Hot Humid</td>
<td>70°C 95%RH for 96 hours</td>
</tr>
</tbody>
</table>

**Storage Temperature Performance**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cold Dry</td>
<td>-40°C &lt;=5%RH</td>
</tr>
<tr>
<td>Hot Dry</td>
<td>85°C &lt;=10%RH</td>
</tr>
<tr>
<td>Hot Humid</td>
<td>85°C 95%RH</td>
</tr>
</tbody>
</table>

**Thermal Shock**
- Functional after 20 cycles of -40°C to 85°C with a 30 minute dwell time and 5 minute transitions

**Finger Disk Lifetime Durability**
- >3.5 million actuations with 500g at 4Hz

**Keypad Lifetime Durability**
- >1 million cycles with 500g at 4Hz

**Drop Test**
- Dropped from 1 meter onto concrete on all six sides

**Mechanical Shock**
- Comparable to MIL-STD-202, 80G accelerated in 11msec

**Mechanical Vibration**
- Comparable to MIL-STD-202, Method 204, Condition A

**Chemical Resistance**
- Keypad surface resistant to most common cleaners and spills for 24 hours. These include: water, soap, bleach, alcohol, ammonia NH₂OH based window cleaner, acetic acid CH₃COOH based cleaner, cola, coffee with sugar and creamer. Robust MicroModule with Fluorosilicone keypad is also resistant to a variety of oils, fuels, and solvents.

**UL**
- All materials UL grade 94 V-1 or better

**RoHS**
- Compliant
Connector Options

**Header**
The connector for the MicroModule is a wire to board header connector. The header is a Molex #53261-0871

**Header Wire and Cable Options**
- USB Type A, PN 14-00054
- USB Type A with Strain Relief, PN 14-00108
- 12" Wire Cable Harness, PN 14-16576

Application Information

**Mounting**
Can be fitted into various assemblies to meet specific demands for user control locations.

Mounting Recommendations
See the Integration Guide for more detailed mounting instructions.

Pin Out

<table>
<thead>
<tr>
<th>J2 Pin</th>
<th>Signal</th>
<th>Signal Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VCC</td>
<td>+5v</td>
</tr>
<tr>
<td>2</td>
<td>D+</td>
<td>D+</td>
</tr>
<tr>
<td>3</td>
<td>D-</td>
<td>D-</td>
</tr>
<tr>
<td>4</td>
<td>GND</td>
<td>Ground</td>
</tr>
</tbody>
</table>
Orderable Part Numbers

Hardware Development Kit, 54-00028
This Hardware Development Kit includes:
- MicroModule Demo (Black Finger Disk) w with USB Cable (Qty. 1)
- USB MicroModule with MiniJoystick (Qty. 1)
- Gray Finger Disk Keypad (Qty. 1)
- 12” Wire Cable Harness (Qty. 1)
- USB Cable Assembly (Qty. 1)
- USB Flash drive with product literature (Qty. 1)

USB MicroModule with Black Finger Disk, PN 54-00022
USB MicroModule with Gray Finger Disk, PN 54-00023
USB MicroModule with MiniJoystick, PN 54-00011
USB MicroModule with Black Finger Disk (Flourosilicone), PN 54-00046
12” Wire Cable Harness, PN 14-16576
USB Cable Assembly, PN 14-00054
USB Cable Assembly with Strain Relief, PN 14-00108

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