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).
MicroModule PS/2 Data Sheet

PS/2 MicroModule for Rugged Mousing Applications

**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**
- **Cold Dry**
  - Temperature: -25ºC <=5%RH for 96 hours
  - RH: 10%RH for 96 hours
- **Cold Humid**
  - Temperature: 10ºC 95%RH for 96 hours
  - RH: 70ºC <=10%RH for 96 hours
- **Hot Dry**
  - Temperature: 70ºC <=10%RH for 96 hours
  - RH: 70ºC 95%RH for 96 hours

**Operating Temperature Performance**
- **Cold Dry**
  - Temperature: -40ºC <=5%RH
  - RH: 85ºC <=10%RH
- **Hot Dry**
  - Temperature: 85ºC <=10%RH
  - RH: 85ºC 95%RH

**Storage Temperature Performance**
Functional after 96 hours of exposure to the below conditions:
- **Cold Dry**
  - Temperature: -40ºC <=5%RH
  - RH: 85ºC <=10%RH
- **Hot Dry**
  - Temperature: 85ºC <=10%RH
  - RH: 85ºC 95%RH

**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 NH4OH 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
• PS/2 Cable Assembly, PN 14-00053
• PS/2 Cable Assembly with Strain Relief, PN 14-00225
• 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>
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<tr>
<th>J2 Pin</th>
<th>Signal</th>
<th>Signal Description</th>
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<tr>
<td>1</td>
<td>VCC</td>
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<tr>
<td>7</td>
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<td>Clock</td>
</tr>
<tr>
<td>8</td>
<td>DATA</td>
<td>Data</td>
</tr>
</tbody>
</table>
Orderable Part Numbers

Hardware Development Kit, 54-00050
This Hardware Development Kit includes:
• MicroModule PS/2 Demo with Cable (Qty. 1)
• MicroModule PS/2 with MiniJoystick (Qty. 1)
• Gray Finger Disk Keypad (Qty. 1)
• 12" Wire Cable Harness (Qty. 1)
• PS/2 Cable Assembly (Qty. 1)
• USB Flash drive with product literature (Qty. 1)

PS/2 MicroModule with Black Finger Disk, PN 54-00045
PS/2 MicroModule with Gray Finger Disk, PN 54-00055
PS/2 MicroModule with MiniJoystick, PN 54-00056
PS/2 MicroModule with Black Finger Disk (Flourosilicone), PN 54-00060
12" Wire Cable Harness, PN 14-16576
PS/2 Cable Assembly, PN 14-00053
PS/2 Cable Assembly with Strain Relief, PN 14-00225

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