

# MicroModule USB Data Sheet

## **USB MicroModule for Rugged Mousing Applications**

## **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.





Gray Finger Disk Option



Black Finger Disk Option

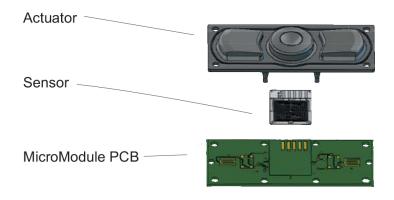


Mini Joystick Option

MicroModule Rear View

## **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).



P/N: PDS-10010-B



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## **USB MicroModule for Rugged Mousing Applications**

## **Device Characteristics**

**Keypad Options** 

Weight

Operating Temperature Performance

Cold Dry Cold Humid Hot Dry Hot Humid

Storage Temperature Performance

Cold Dry Hot Dry Hot Humid

Thermal Shock

Finger Disk Lifetime Durability

Keypad Lifetime Durability

Drop Test

Mechanical Shock

Mechanical Vibration

Chemical Resistance

UL

RoHS

Black finger disk, gray finger disk, black mini joystick, black finger disk fluorosilicone

15 grams or less

Functional before, during, and after exposure to the below conditions:

-25°C <=5%RH for 96 hours 10°C 95%RH for 96 hours 70°C <=10%RH for 96 hours 70°C 95%RH for 96 hours

Functional after 96 hours of exposure to the below conditions:

-40°C <=5%RH 85°C <=10%RH 85°C 95%RH

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

>3.5 million actuations with 500g at 4Hz

>1 million cycles with 500g at 4Hz

Dropped from 1 meter onto concrete on all six sides

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

Comparable to MIL-STD-202, Method 204, Condition A

Keypad surface resistant to most common

cleaners and spills for 24 hours. These include: water, soap, bleach, alcohol, ammonia  $NH_4OH$  based window cleaner, acetic acid  $CH_3COOH$  based cleaner, cola, coffee with sugar and creamer. Robust MicroModule with Fluorosilicone keypad is also resistant to a variety of oils, fuels, and solvents.

All materials UL grade 94 V-1 or better

Compliant



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## **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**

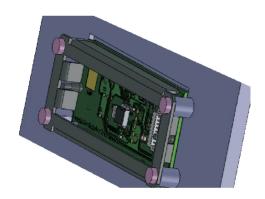
- USB Type A, PN 14-00054
- USB Type A with Strain Relief, PN 14-00108
- 12" Wire Cable Harness, PN 14-16576

# May whiterlinkeletrones.com

## **Application Information**

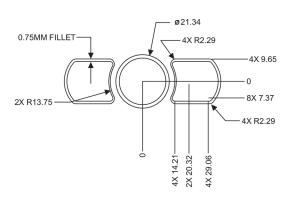
## Mounting

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

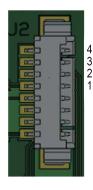


## **Mounting Recommendations**

See the Integration Guide for more detailed mounting instructions.



**Pin Out** 



| J2 Pin | Signal | Signal<br>Description |
|--------|--------|-----------------------|
| 1      | VCC    | +5v                   |
| 2      | D+     | D+                    |
| 3      | D-     | D-                    |
| 4      | GND    | Ground                |



# MicroModule PS/2 Data Sheet

## PS/2 MicroModule for Rugged Mousing Applications

## **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 54-00002

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



## **Contact Us**

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