

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

0

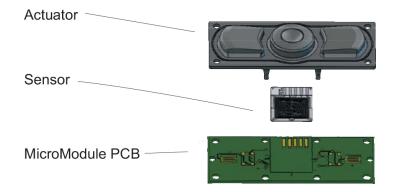


Mini Joystick Option

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).



Human-Machine Interface Solutions for a Connected World



MicroModule USB Data Sheet

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 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.

All materials UL grade 94 V-1 or better

Compliant



MicroModule USB Data Sheet

USB MicroModule for Rugged Mousing Applications

Connector Options

Header

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

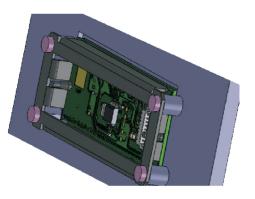
Header Wire and Cable Options

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

Application Information

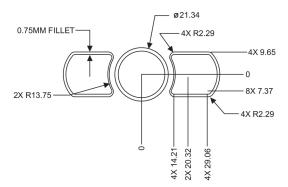
Mounting

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



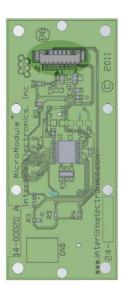
Mounting Recommendations

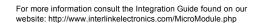
See the Integration Guide for more detailed mounting instructions.



Pin Out

J2 Pin	Signal	Signal 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

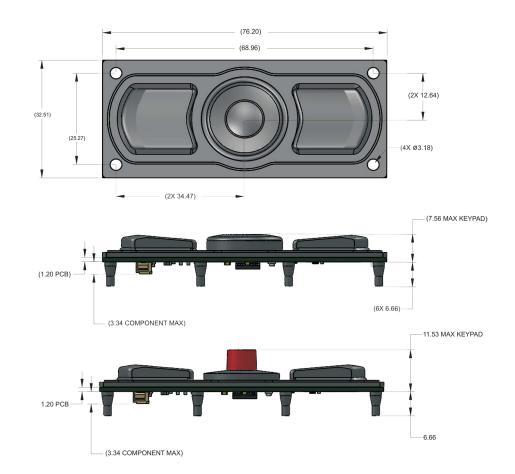
- This Hardware Development Kit includes:
- MicroModule Demo (Black Finger Disk) w with USB Cable (Qty. 1)
- USB MicroModule with MiniJoystick (Qty. 1)
- Gray Finger Disk Keypad (Qty. 1)
- 12" Wire Cable Harness (Qty. 1)
- USB Cable Assembly (Qty. 1)
- USB Flash drive with product literature (Qty. 1)

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

United States Corporate Office Interlink Electronics, Inc. 1267 Flynn Rd. Camarillo, CA 93012, USA Phone: +1.805.484.8855 Fax: +1.805.484.9457 InterlinkElectronics.com Sales & Support: sales@iefsr.com

www.interlinkelectronics.com