

USB Touchpad for Mousing Applications

Features and Benefits

- Enumerates as a standard three-button
- · HID-compliant mouse
- · Requires no additional driver
- Tap for left-click
- Double tap
- Tap and drag
- Drag edge lock
- Border scroll
- Actuator can be a stylus, a finger, or a gloved hand

Some Applications

- Industrial Computers
- Rugged/Military Notebook Computers
- Desktop Keyboards
- Handheld PCs
- Digital Media Players

Description

The Interlink Versapad® touchpad is Interlink's mousing solution for OEM and rugged applications. The module's tough moisture resistant surface can be used with a finger, stylus, or glove; even in harsh environments.

The VersaPad enumerates as HID mouse with Left and Right Click capabilities using hte native Operating System's mouse drivers. A Hardware Development Kit is available. Call us to order at 805-484-8855









FFC Version



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Device Characteristics

Overlay Color Dark Gray, Pantone 425C

Actuation Force .05N-.3N (5g - 30g)

Weight 15 grams or less

Operating Temperature Performance

Cold Dry Cold Humid Hot Dry Hot Humid

Storage Temperature Performance

Cold Dry Hot Dry Hot Humid Functional after 96 hours of exposure to the below conditions:

-40°C <-5%RH 70°C <=5%RH 70°C 95%RH

Thermal Shock

Functional after 20 cycles of -40 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ with a 30 minute dwell time and 5 minute transitions

Lifetime Durability

>5 million stylus strokes at -150g+/-10g $\,$ at +23°C and +°70 $\,$

Standing Load Durability

Vertical static load 1kgf max for 1 hour

-20°C <=5%RH for 96 hours

10°C 95%RH for 96 hours

50°C <5%RH for 96 hours

60°C 95% for 96 hours

Tap Durability

>1,000,000 cycles at 1kgf/silicone finger/4Hz at +23°C and +°70

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

Drop

Dropped from 122cm (48 in.) onto concrete

Mechanical Shock

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

Mechanical Vibration

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

Altitude - Operating 10,000 ft

Functional before, during, and after exposure to altitude pressure simulation in vacuum (1 hour)

Altitude - Storage 30,000 ft

Functional before, and after exposure to altitude pressure simulation in vacuum (1 hour)

UL

All materials UL grade 94 V-1 or better

RoHS

Compliant

Stylus recommendations:

Material

Acetal or Teflon

Minimum radius of tip

1.5mm

EMI

See notes from PS

ESD

See notes from PS

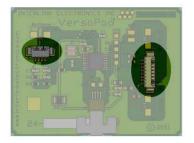


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Connector Options

Header

One connector option for the VersaPad is to use wire to board header connectors. The J7 header (Molex #53261-0471) is used for connecting external mouse buttons, the J6 (Molex #53261-0871) is the USB communication header.



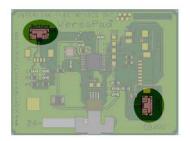
Header Wire and Cable Options

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

FFC

The VersaPad is also available in a Flat Flex Cable (FFC) connector option. The FFC is used in two places: the J3 for buttons, and the J2 for the USB communication.

Manufacturer: FCI Part Number: SFV4R-1STE1LF Refer to the manufacturer's datasheet for more information.



Application Information

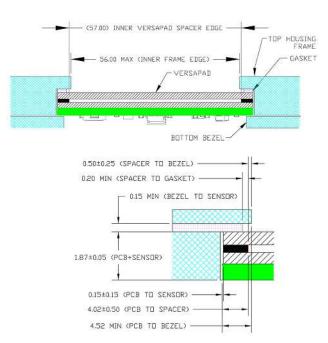
VersaPad Module Bezel Mounting Concept

A general bezel mounting method is one possible way to mount the VersaPad Module



Bezel Concept Critical Dimensions

Indicated are the critical dimensions associated with the VersaPad Module





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Orderable Part Numbers

Hardware Development Kit, 54-00007 This Hardware Development Kit includes:

- USB VersaPad, FFC Connectors (Qty. 1)
- USB VersaPad, Molex Connectors (Qty. 1)
- USB VersaPad, Demo Model (Qty. 1)
- Demo Model Graphic Overlay (Qty. 1)
- 12" Wire Cable Harness (Qty. 1)
- FFC Cables (Qty. 2)
- FFC Connectors (Qty. 3)
- USB Flash drive with product literature (Qty. 1)

USB VersaPad FFC, PN 54-00089 (replaced PN 54-00030, still available)

USB VersaPad Molex, PN 54-00088

(replaced PN 54-00031, still available)

USB VersaPad FFC Features Disabled, PN 54-00096

USB VersaPad Molex Features

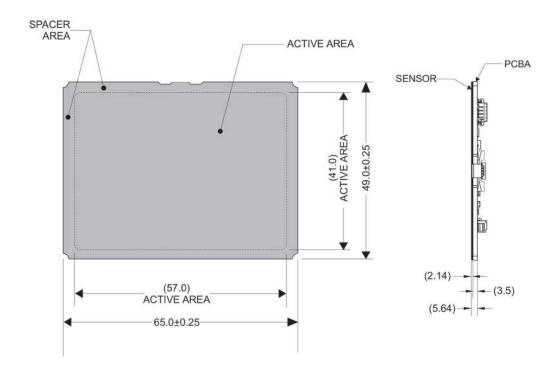
Disabled, PN 54-00097

USB Cable Assembly, PN 14-00054

USB Cable Assembly with Strain

Relief, PN 14-00108

12" Wire Cable Harness, PN 14-16576



Contact Us

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