# VersaPad® USB Data Sheet

### 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
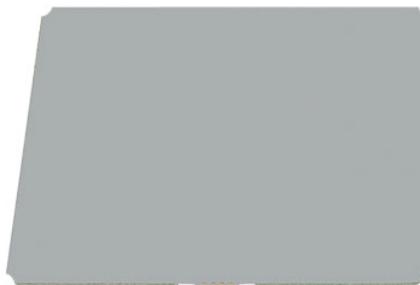
## Description

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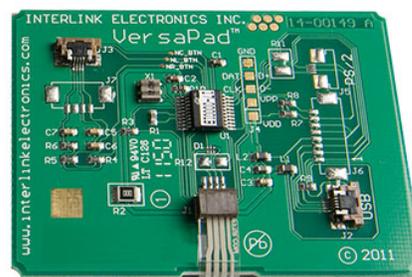
The VersaPad enumerates as HID mouse with Left and Right Click capabilities using hte native Operating System's mouse drivers. A Hardware Development Kit is available. Call us to order at 805-484-8855

## Some Applications

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



Header Version
(board to wire)

FFC Version

## Human-Machine Interface Solutions for a Connected World

# INTERLINK ELECTRONICS

## Device Characteristics

| | |
|---|---|
| Overlay Color | Dark Gray, Pantone 425C |
| Actuation Force | .05N-.3N (5g – 30g) |
| Weight | 15 grams or less |

**Operating Temperature Performance**
Functional before, during, and after exposure to the below conditions:

| | |
|---|---|
| Cold Dry | -20ºC <=5%RH for 96 hours |
| Cold Humid | 10ºC 95%RH for 96 hours |
| Hot Dry | 50ºC <5%RH for 96 hours |
| Hot Humid | 60ºC 95% for 96 hours |

**Storage Temperature Performance**
Functional after 96 hours of exposure to the below conditions:

| | |
|---|---|
| Cold Dry | -40ºC <-5%RH |
| Hot Dry | 70ºC <=5%RH |
| Hot Humid | 70ºC 95%RH |

| | |
|---|---|
| Thermal Shock | Functional after 20 cycles of -40ºC to 70ºC with a 30 minute dwell time and 5 minute transitions |
| Lifetime Durability | >5 million stylus strokes at -150g+/-10g   at +23ºC and +º70 |
| Standing Load Durability | Vertical static load 1kgf max for 1 hour |
| Tap Durability | >1,000,000 cycles at 1kgf/silicone finger/4Hz  at +23ºC and +º70 |
| 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 |

## 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.
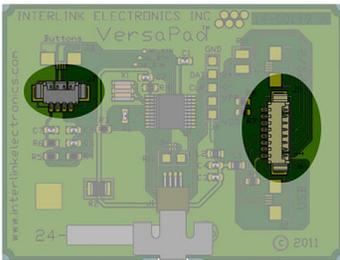
### Header Wire and Cable Options
• 12" Wire Cable Harness, PN 14-16576
• USB Cable Assembly, PN 14-00054
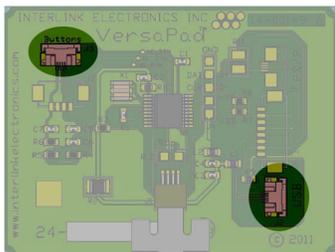• USB Cable Assembly with Strain Relief, PN 14-00108

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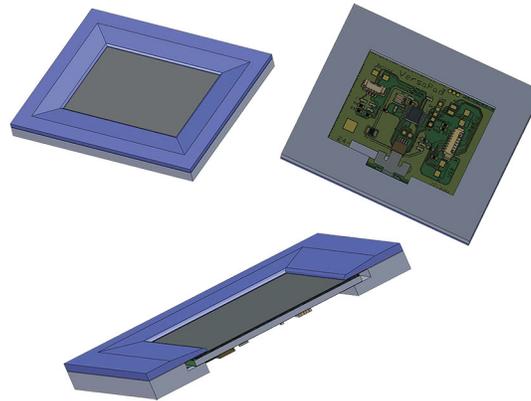Manufacturer: FCI
Part Number: SFV4R-1STE1LF
Refer to the manufacturer's datasheet for more information.
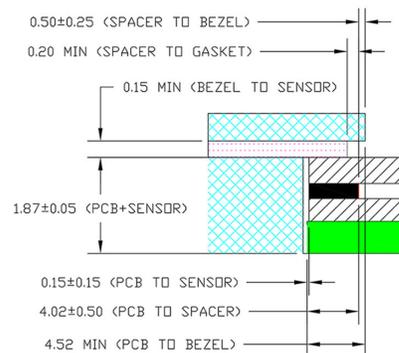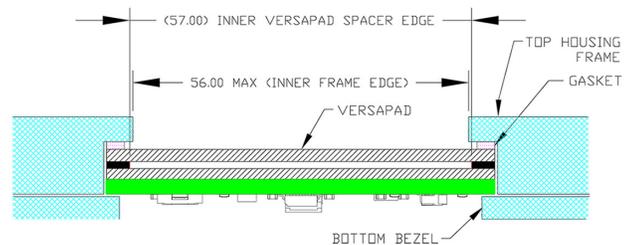
## Application Information

### 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

For more information consult the Integration Guide found on our website: http://www.interlinkelectronics.com/VersaPad.php

## 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
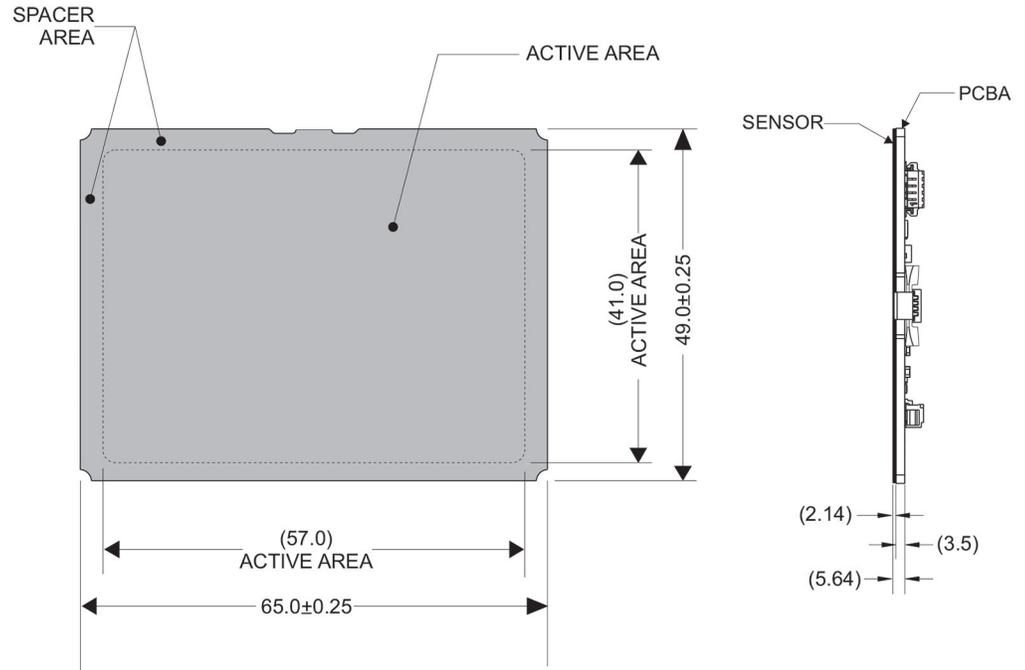
**USB VersaPad Molex Features Disabled**, PN 54-00097

**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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