

VersaPad® USB Data Sheet

USB Touchpad for Mousing Applications

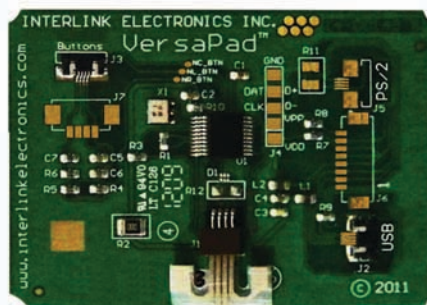
Features and Benefits

- 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 the native Operating System's mouse drivers. A Hardware Development Kit is available. Call us to order at 805-484-8855.



FFC Version



Header Version
(board to wire)



P/N: PDS-10020-A

USB Touchpad for Mousing Applications

Some Applications

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

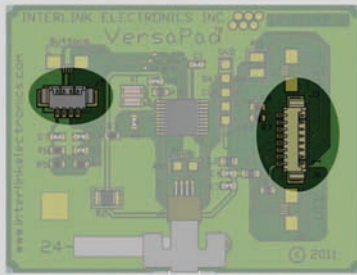
Device Characteristics

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: -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
Storage Temperature Performance	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°C to 70°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°C
Standing Load Durability	Vertical static load 1kgf max for 1 hour
Tap Durability	>1,000,000 cycles at 1kgf/silicone finger/4Hz at +23°C and +60°C
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 w/Strain Relief, PN 14-00108

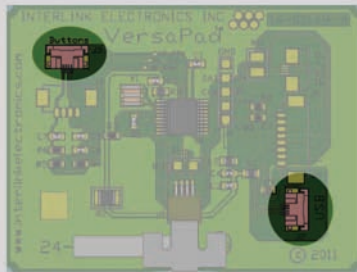
FFC

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

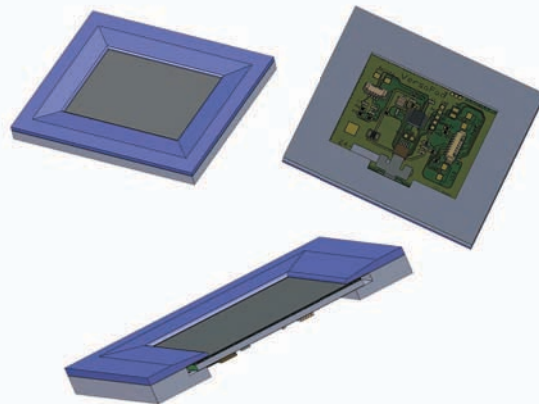
Refer to the manufacturer's datasheet for more information.



Application Information

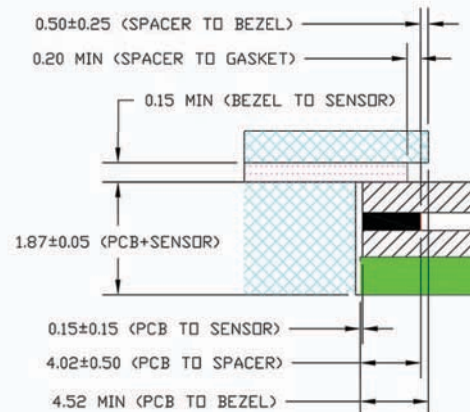
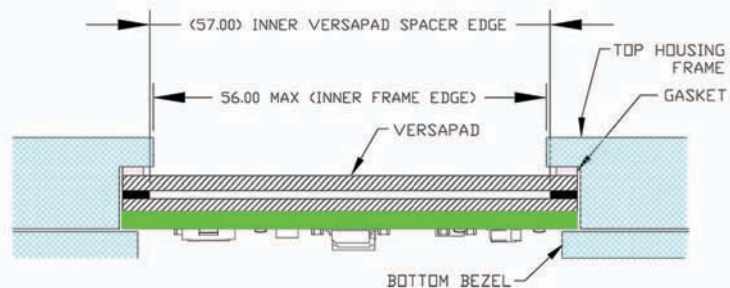
VersaPad® Module Bezel Mounting Concept

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



USB Touchpad for Mousing Applications

Orderable Part Numbers

Hardware Development Kit, 54-00007

This Hardware Development Kit includes:

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

USB VersaPad® FFC, PN 54-00089

USB VersaPad® Molex, PN 54-00088

USB VersaPad® FFC Features

Disabled, PN 54-00096

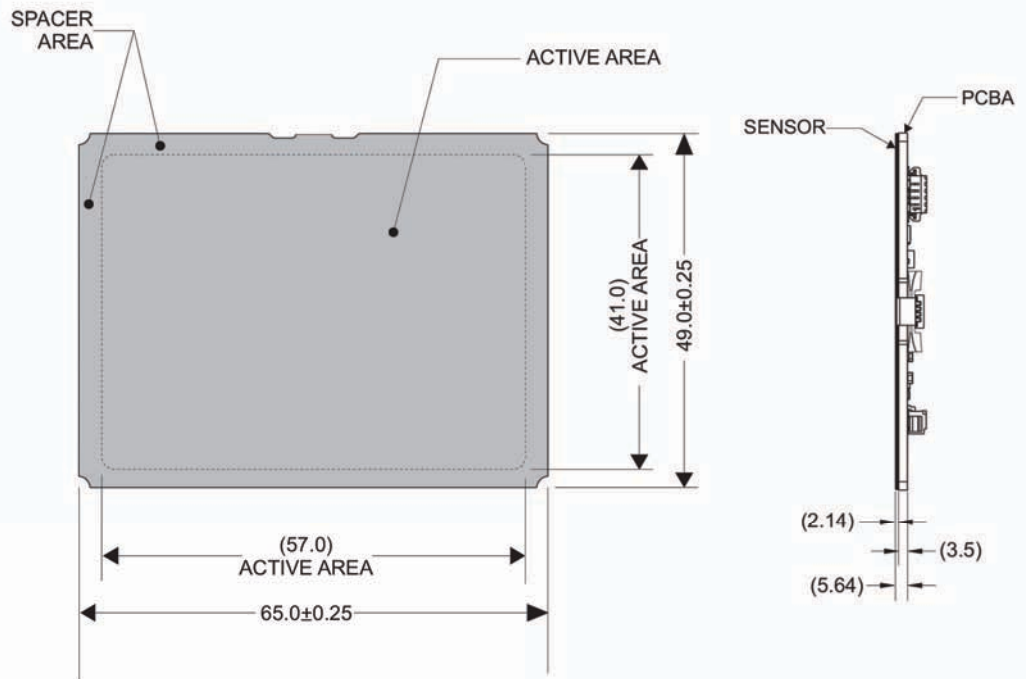
USB VersaPad® Molex Features

Disabled, PN 54-00097

USB Cable Assembly, PN 14-00054

USB Cable Assembly w/ Strain Relief, PN 14-00108

12" Wire Cable Harness, PN 14-16576



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Image above depicts the Header version which has the maximum profile for the VersaPad® module. The FFC VersaPad® has a lower profile. For CAD models or more information go to, www.interlinkelectronics.com/Support