INTERLINK
ELECTRONICS®

VersaPad® PS/2 Data Sheet

Features and Benefits

- 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
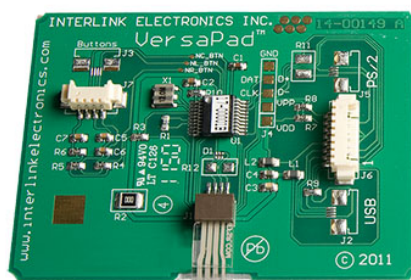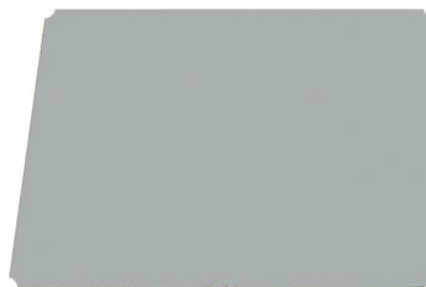- Horizontal scroll (with driver)

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.
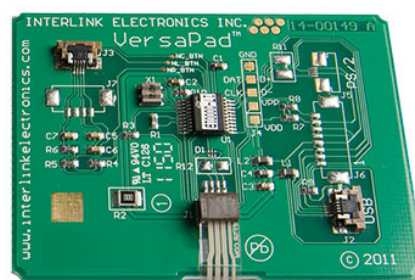
The VersaPad PS/2 will attach as a 2 button mouse, or a 3 button scroll mouse using the native Operating System's mouse driver. A Hardware Development Kit is available. Call us to order at 805-484-8855

Some Applications

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

Header Version
(board to wire)

FFC Version

P/N: PDS-10015-B

Human-Machine Interface Solutions for a Connected World

Device Characteristics

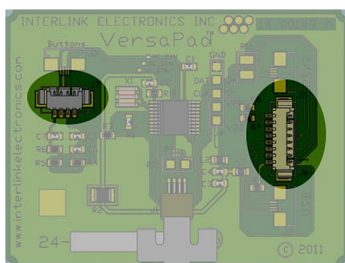|	
Overlay Color	Dark Gray, Pantone 425C
Actuation Force	.05N-.3N (5g – 30g)
Weight	15 grams or less
Operating Temperature Performance	Functional before, during, and after exposure to the below conditions:
Cold Dry	-20ºC <=5%RH for 96 hours
Cold Humid	10ºC 95%RH for 96 hours
Hot Dry	50ºC <5%RH for 96 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

VersaPad® PS/2 Data Sheet

PS/2 Touchpad for Mousing Applications
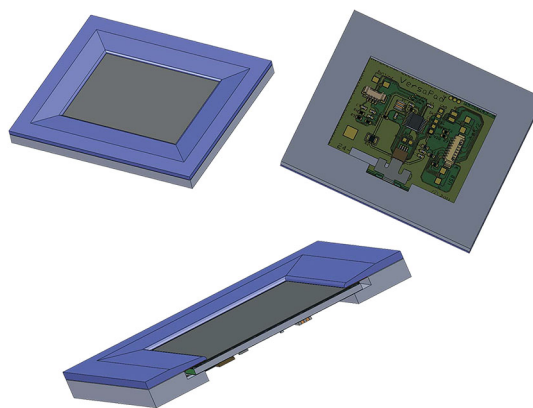
Connector Options

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 PS/2 communication header.

Header Wire and Cable Options
• 12" Wire Cable Harness, PN 14-16576
• PS/2 Cable Assembly, PN 14-00053
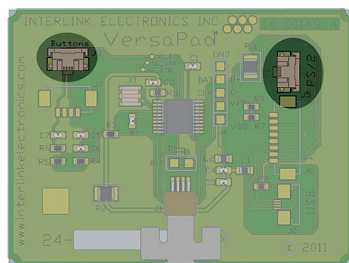• PS/2 Cable Assembly with Strain Relief, PN 14-00225

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 J5 for the PS/2 communication.
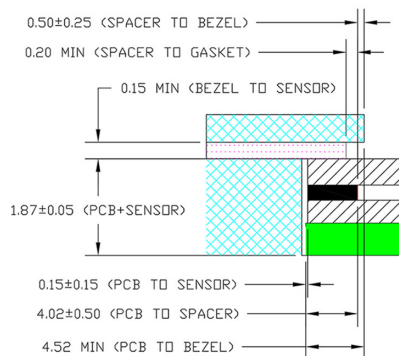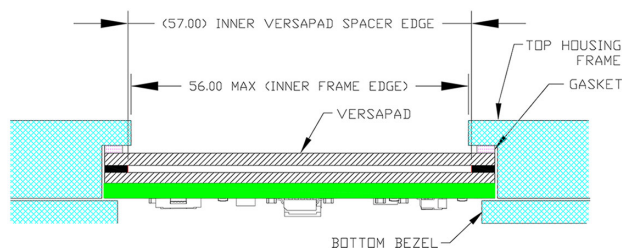Manufacturer: FCI
Part Number: SFV4R-1STE1LF
Refer to the manufacturer's datasheet for more information.

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, 54-00047

This Hardware Development Kit includes:

• PS/2 VersaPad, FFC Connectors
  (Qty. 1)
• PS/2 VersaPad, Molex Connectors
  (Qty. 1)
• PS/2 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
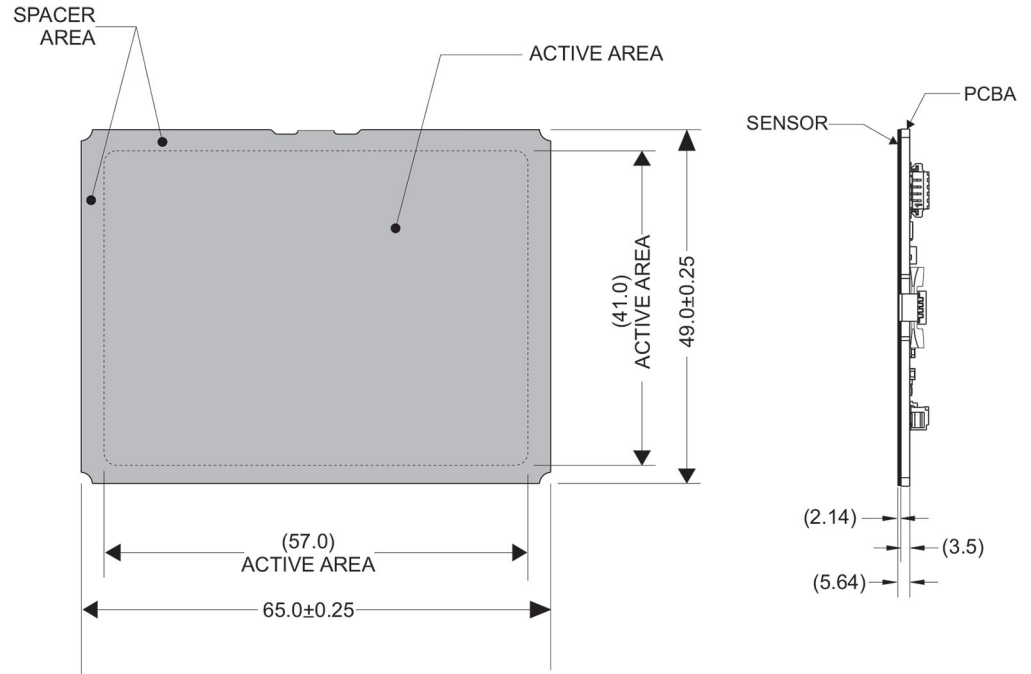 (Qty. 1)

PS/2 VersaPad FFC, PN 54-00090

PS/2 VersaPad Molex, PN 54-00087

PS/2 Cable Assembly, PN 14-00053

**PS/2 Cable Assembly with Strain
  Relief**, PN 14-00225

12" Wire Cable Harness, PN 14-16576

SPACER AREA

ACTIVE AREA

PCBA

SENSOR

(41.0) ACTIVE AREA

49.0±0.25

(57.0) ACTIVE AREA

65.0±0.25

(2.14)

(3.5)

(5.64)

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