INTERLINK ELECTRONICS
Sensor Technologies

AM™ Sensor Line
VersaPad® Data Sheet

Touchpad for Mousing Applications

Features and Benefits

- Unique hard coated film with antimicrobial protection
- 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

Applications

- Health care
- Food industry
- Pharmaceutical
- Mass & Home Improvement
- Consumer Electronics
- Domestic
- Infant & baby

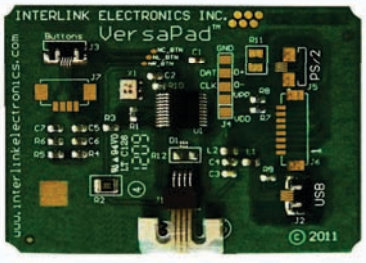
Description

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.

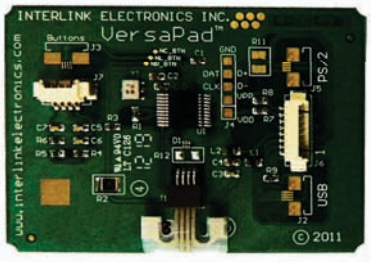
The VersaPad® enumerates as HID mouse with Left and Right Click capabilities using the native Operating System's mouse drivers. A Hardware Development Kit is available. Call us to order at 805-484-8855.

The AM Sensor Line from Interlink Electronics provides constant and dependable antimicrobial product protection and an added level of defense against damaging microbes for the useful lifetime of the products. The touchable surfaces of the AM Sensor Line inhibit the growth of microbes on contact, working continuously to maintain a consistently lower bio-burden than would be expected on a product without antimicrobial protection.

The AM Sensor Line gives any application a competitive advantage in a world that focuses on cleanliness. Interlink`s AM Sensor Line is designed for next generation applications in which preventing the growth of bacteria, mold and mildew is a priority. Antimicrobial protection is not a substitute for proper cleaning practices and does not protect users from disease carrying organisms.



FFC Version



Header Version (board to wire)

P/N: 94-00053 Rev. A

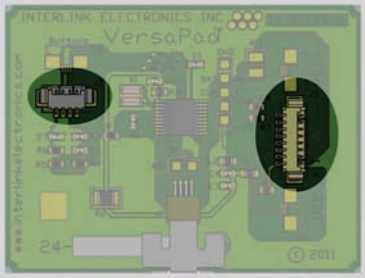
Your Sensor Application with a Competitive Edge

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	-20°C <=5%RH for 96 hours
Cold Humid	10°C 95%RH for 96 hours
Hot Dry	50°C <5%RH for 96 hours
Hot Humid	60°C 95% for 96 hours
Storage Temperature Performance	Functional after 96 hours of exposure to the below conditions:
Cold Dry	-40°C <-5%RH
Hot Dry	70°C <=5%RH
Hot Humid	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
Standing Load Durability	Vertical static load 1kgf max for 1 hour
Tap Durability	>1,000,000 cycles at 1kgf/silicone finger/4Hz
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

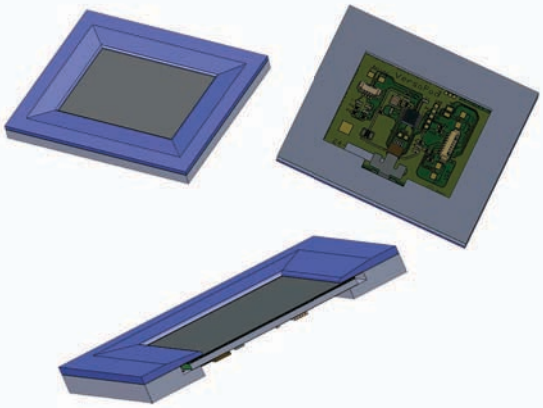
Connector Options

Header
The J7 header (Molex #53261-0471) is used for connecting external mouse buttons, the J6 (Molex #53261-0871) is the USB/PS2 communication header.



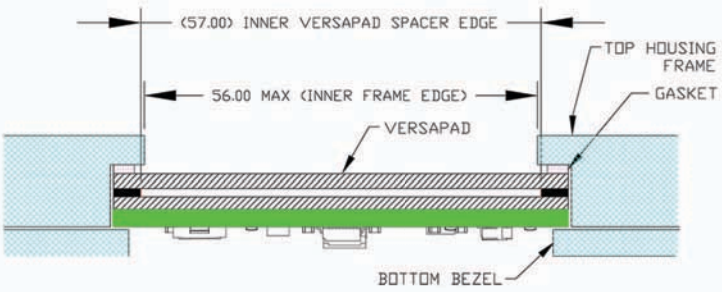
Application Information

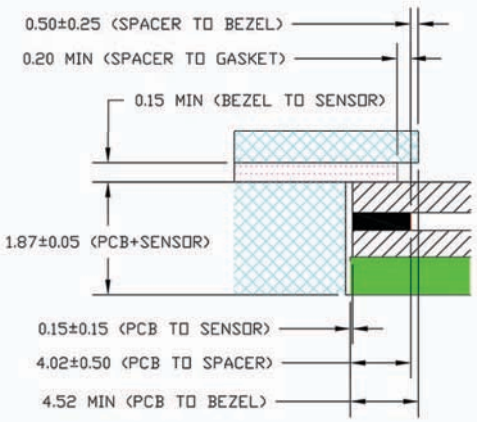
VersaPad® Module Bezel Mounting Concept. A general bezel mounting method is one possible way to mount the VersaPad® Module



Bezel Concept Critical Dimensions

Indicated are the critical dimensions associated with the VersaPad® Module





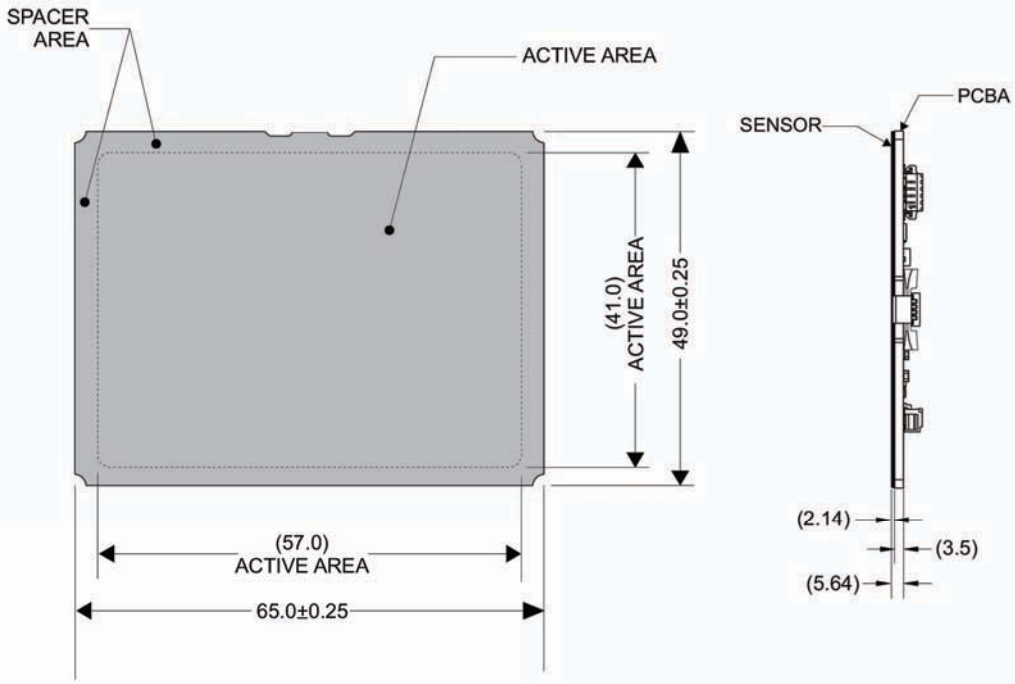
Touchpad for Mousing Applications

Orderable Part Numbers

Hardware Development Kit, 54-00077
This Hardware Development Kit includes:

- AM™ VersaPad® PS2, Connectors (Qty. 1)
- AM™ VersaPad USB, Demo Model, w/ cable (Qty. 1)
- PS2 Cable Assembly

AM™ VersaPad® PS2, 54-00072
AM™ VersaPad® USB, 54-00071
12" Wire Cable Harness, 14-16576
USB Cable Assembly, 14-00054
USB Cable Assembly with Strain Relief, 14-00108
PS2 Cable Assembly, 14-00053
PS2 Cable Assembly with Strain Relief, 14-00225



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Interlink Electronics Inc. (OTC: LINK) is a global leader in design of Force-Sensing Resistor® (FSR®) technology and a pioneer in printed electronics. For over 28 years, our solutions have focused on handheld user input, menu navigation, cursor control, & other intuitive interface technology for the world's top electronics manufacturers. We enhance and strengthen our customer's user interface and data capture solutions with our robust array of sensor technologies and expertise.
Interlink is your trusted advisor and technology partner in the advertising world of sensor technologies.

Services:

- Electro Mechanical Engineering
- Electrical Engineering
- Tool Engineering
- Prototyping Engineering
- Manufacturing Process Engineering
- Quality Engineering

Products & Solutions:

- Force Sensors
- Position Sensors
- Mouse, Pointing & Touchpad

Operations:

- High Volume Manufacturing
- Engineering
- Procurement
- CM Management
- Logistics
- Distribution
- Warehouse

Global Presence:

- West Coast USA
- Shenzhen China
- Hong Kong
- Worldwide Distribution

Applications:

- Intuitive User Interface
- Detect & Qualify Press
- Detect Liquid Blockage
- Detect Proper Tube Positioning
- Detect Centroid of Force
- Detect Presence, Position & Motion
- Many other force measurement applications

Quality:

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