

## TOUCHPAD PRODUCT BRIEF

The Synaptics TouchPad™ is an advanced touch sensitive interface solution that senses the position of a person's finger on its surface. The Synaptics TouchPad can be used in a wide variety of applications, including notebook computers, keyboards, and other peripherals that require a thin, robust, accurate, and easy to use navigation device.



Synaptics TouchPad devices offer patented advanced features such as:

**Virtual Scrolling:** By swiping your finger along the side or bottom of the TouchPad you can scroll horizontally and vertically

**PalmCheck™:** Eliminates the occurrence of false activation due to the user's hand accidentally brushing against the sensor

**EdgeMotion™:** Allows the cursor to continue moving when the finger reaches the edge of the TouchPad sensor

**Customizable Tap Zones:** Simulate right mouse clicks, launch applications or perform other programmable functions by tapping on designated tap zones

Synaptics' capacitive technology is a reliable and proven touch-sensing technology, with a customer base that includes all top tier notebook OEMs. The TouchPad is completely solid state, with no moving parts to wear out over time. In addition, TouchPad devices are immune to surface contamination such as moisture and dirt, and are very accurate, with a resolution of 1000 DPI.

Enriching the Interaction » between humans and intelligent devices

### KEY FEATURES & BENEFITS

**Configurable** - TouchPad devices can be custom designed to meet your requirements for size, thickness, buttons, and software features.

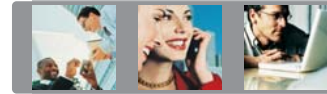
**Advanced Features** - Features such as PalmCheck, Virtual Scrolling, Tap Zones, and EdgeMotion.

**High Tolerance To User Abuse** - Resistant to moisture, dirt, and surface scratches.

**Reliable** - With no moving parts to wear out over time, TouchPad devices have a related life of over 1 million taps.

**Accurate** - Resolution of 1000 DPI results in a precise and responsive touching sensation.

**Easy to Use** - Requires only a slight touch to activate, no pressure is necessary.



## PHYSICAL SPECIFICATIONS

Module Dimensions:	With face sheet: up to 97 x 75.5mm Under plastic: up to 98 x 50mm Custom sizing is available
PCB Thickness:	Standard PCB thicknesses: 0.50mm, 0.89mm, and 1.09mm
Rated Life:	>1 million uses

## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:	0° C to 60° C
Operating Humidity:	5% - 95% relative humidity, non-condensing
Storage Temperature:	-40° C to 65° C
ESD:	15 kV applied to front surface (when properly mounted)

## ELECTRICAL SPECIFICATIONS

Power Supply Voltage:	5.0 V $\pm$ 10%, 3.3 V $\pm$ 10%
Power Supply Current:	3.0 mA nominal operating current for PS/2® interface @ 5.0 V 1.5 mA nominal operating current @ 3.3 V  Optional low power modes: Doze: 100 $\mu$ A @ 5 V Sleep: 30 $\mu$ A @ 3.3 V

## OPERATING SPECIFICATIONS

Interface:	PS/2®, TTL Serial and MEP. Contact your sales rep for availability of additional interfaces.
X/Y Position Resolution:	>1,000 points/inch (40 points/mm)
O/S Support:	Microsoft® Windows® 2000 & XP, Vista

## Contact Synaptics

To locate the Synaptics office nearest you, visit our Web site at [www.synaptics.com](http://www.synaptics.com).

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