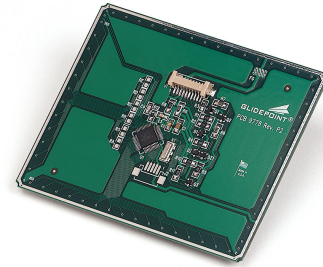


TSM9978 Touchpad



The TSM9978 is our second-largest touchpad surface after the TSM9946. Much larger than a credit card, it is designed to utilize both USB and PS/2 communication protocols. The TSM9978's reliable, proven design combined with its easy-to-use and intuitive operation makes it the ideal choice for many diverse applications. We also offer custom overlays to match your design requirements.

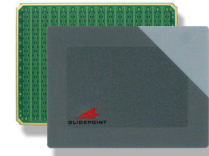


applications

- Keyboards
- Touch control pads
- Industrial controls
- Kiosk input devices
- Medical instruments
- Security devices
- Point-of-sale devices
- Gaming devices

features

- Extra-large sensing area
- Both PS/2 and USB (10-pin connector) compatibility
- Low power consumption
- Easy product integration due to thin, lightweight design
- No maintenance required – Sealable design is immune to moisture, dust and abuse
- Superior navigation and high responsiveness
- Windows®-compatible embedded features mean no additional drivers needed



Using our patented GlidePoint® technology, the TSM9978 is immune to moisture, allowing it to function properly even with water droplets present on the touchpad's sensing surface. Power efficiency of any application is improved with an "idle mode," where the touchpad's current draw is reduced when a finger is not touching its surface.

The TSM9978 is fully compatible with standard Windows® mouse drivers. No additional driver is required to activate many of its advanced features. Hardware-configurable options on the module allow for taps (function as left-button clicks), corner-taps (function as right-button clicks), vertical scroll (functions as mouse scroll wheel) and more, depending on the specific application. However, for applications requiring greater flexibility, Cirque offers a Windows® driver, which allows users to enable and disable advanced features, personalize settings and reprogram buttons.

For custom functionality at the product design stage, we offer software that allows OEMs to enable, disable or personalize advanced settings and/or reprogram the touch sensitive area.

Interface	PS/2 (with 10-pin FFC connector) and USB (with 10-pin cable connector)
Operating Systems	Windows® 95, 98, 2000, NT, XP
Button Support	Two (2) mechanical buttons
Sensor Overlay	Multiple options available
Physical Parameters	
Width	96.87 mm (3.814 inches)
Height	78.23 mm (3.080 inches)
Thickness	5.50 mm (0.217 inches) with all components
Weight	< 32 g (< 1.13 ounces)
Active Sensing Area	89.86 x 71.22 mm (3.538 x 2.804 inches)
Voltage	5v ± 10%
Current	PS/2: 6.6 mA (active) PS/2: 2.6 mA (idle) USB: 17 mA (active) USB: 13 mA (idle) USB: 270 µA (suspend)
Operating Temperature	0° to 60°Celsius
Operating Humidity	5% to 100% relative humidity (condensing)
Storage Temperature	-40° to +65° Celsius
ESD	15kV when properly mounted in bezel
Environmental	EMI tolerant and manufactured RoHS compliant
Available Accessories	PS/2 cable: 183 cm (6 feet) – part no. 52-000015-30 USB cable: 183 cm (6 feet) – part no. 52-000021-00

Our knowledgeable and helpful sales team is ready to answer all of your question. Please call toll-free 1-800-GLIDE-75 or visit www.cirque.com

CIRQUE CORPORATION

Input Solutions At Your Fingertips

2463 South 3850 West, Suite A, Salt Lake City, Utah 84120 U.S.A.

Phone: (801) 467-1100 • Fax: (801) 467-0208 • www.cirque.com