



# iTouch Surface Acoustic Wave

## The New Benchmark for Surface Acoustic Wave Technology

**With more than 20 years of IntelliTouch technical and manufacturing expertise, TE Connectivity has once again raised the standards for surface acoustic wave (SAW) touch solutions with the introduction of iTouch technology.**

A proprietary innovation, iTouch technology moves all of the touch detection hardware to the backside of the touchscreen. The result is a completely flat touch surface with no bezel after integration of the touchscreen into a monitor. iTouch technology delivers the same robust performance customers expect from IntelliTouch: No known physical wear-out mechanism, fast touch response, drift-free performance using a finger, gloved hand, or soft stylus, and compatibility with existing controllers and software drivers. iTouch touchscreens are the perfect solution for applications requiring impeccable touch performance without compromising aesthetics.

### Features

- Proprietary iTouch technology developed by TE Connectivity
- Available in standard and wide format, up to 32" diagonal
- Pure glass construction

### Benefits

- Completely flat touchscreen offers sleek, refined appearance
- No bezel required for easy integration into touch-monitors and touch computers
- Same fast, accurate, and stable performance as IntelliTouch technology
- Compatible with standard 2701 controller series used with IntelliTouch technology
- 2-year limited warranty

### Applications

- Desktop Touch Computers, All-in-One (AiO) and Touch Monitors
- Point of information kiosks
- Vending and ticket sales
- Gaming, lottery, and amusement
- Multimedia marketing
- Banking and financial transactions
- Industrial control rooms

# iTouch Surface Acoustic Wave Specifications

## MECHANICAL

Input Method	Finger or gloved hand (cloth, leather, or rubber) activation, or soft stylus
Available Sizes*	7" to 32" diagonal; visit our website for full specifications and other product offerings

## ELECTRICAL

Positional Accuracy	Standard deviation of error is not greater than 2.5mm and typically much less with calibration to display image
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096 and physical screen dimensions
Touch Activation Force	2 to 3 ounces (55 to 85 grams) typical
Controller	Board: Serial (RS232) or USB

## OPTICAL

Light Transmission	Up to 92% per ASTM D1003
Surface Finish	Clear finish

## ENVIRONMENTAL

Temperature	Operating: -4° to 122°F (-20°C to 50°C) Storage: -40° to 160°F (-40°C to 71°C)
Relative Humidity	Operating: 40°C at 90% RH, noncondensing
Altitude	Operating: 10,000 ft (3,048 m) Storage/transport: 50,000 ft (15,240 m)
Chemical Resistance	The touch active area of the touchscreen is resistant to chemicals that do not affect glass, such as: acetone, toluene, methyl ethyl ketone, isopropyl alcohol, methyl alcohol, ethyl acetate, ammonia based glass cleaners, gasoline, kerosene, vinegar
Electrostatic Protection	Per EN 61000-4-2, 1995 meets Level 4 (15 kV air/ 8 kV contact discharges)
Agency Approvals	UL, cUL, TÜV, CE, FCC Class A
Sealability	Touchscreen can be sealed to protect against splashed liquids, dirt, and dust

## DURABILITY

Surface Durability	Surface durability is that of glass, Mohs' hardness rating of 6.5
Expected Life	No known wear-out mechanism, as there are no layers, coatings, or moving parts. iTouch technology has been operationally tested to more than 50 million touches in one location without failure, using a stylus similar to a finger.
Warranty	Touchscreen: 2-year limited warranty Controller: 2-year limited warranty

\*Available in most standard sizes. See the touchscreen component drawing for details.



To find out more about our extensive range of Elo touch solutions, go to [www.elotouch.com](http://www.elotouch.com), or call the office nearest you.

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