



# iTouch Surface Acoustic Wave

## The New Benchmark for Surface Acoustic Wave Technology

**With more than 20 years of IntelliTouch technical and manufacturing expertise, Tyco Electronics 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 Tyco Electronics
- 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 touchmonitors and touch computers
- Same fast, accurate, and stable performance as IntelliTouch technology
- Compatible with standard 2701 controller series used with IntelliTouch technology
- 3-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: -20°C to 50°C<br>Storage: -40°C to 71°C   |
| Relative Humidity        | Operating: 40°C at 90% RH, noncondensing   |
| Altitude                 | Operating: 10,000 ft (3,048 m)<br>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: 3-year limited warranty<br>Controller: 5-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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