



# iTouch Plus Zero-Bezel Surface Acoustic Wave

## Innovation for Surface Acoustic Wave Technology with Multi-Touch Capability

### **iTouch Plus Surface Acoustic Wave (SAW) Touchscreen couples zero-bezel design with multi-touch functionality.**

iTouch Plus technology has passed the Microsoft Windows 7 Multi-touch additional qualification (AQ) testing requirements. It is the result of optimizing a trusted technology—SAW—to enhance industrial design, touch performance and reliability, ease of touchscreen system integration, and bill of material cost. The iTouch zero-bezel SAW offers the ability to realize a seamless, flat, frameless design that can be coupled with customization capabilities where logos, clear icons and other enhancements can be added during the design cycle. Industrial designers are no longer limited by a bezel or frames that are inherent in other touch technologies such as camera or optical touch.

iTouch Plus solutions offer a simple bill of material, a less complex manufacturing and touchscreen integration process, and less capital investment than projective capacitive technologies. This results in a more cost competitive touchscreen solution. The electronics can scale across a wide range of screen sizes, without performance degradation, which contributes to the iTouch Plus touchscreen technology being the choice of selection without concern of design-in touch performance issues. iTouch Plus is based on SAW technology which is proven in the industry as reliable touch technology for long-life applications with a near zero field return rate on touch technology related issues.

This new technology is available today to OEMs who are looking for a reliable, frameless, cost competitive custom touchscreen solution.

### **Features**

- Proprietary iTouch Plus technology
- Supports dual touch
- Compatible with Microsoft Windows 7 operating system
- Available in standard and wide format, 7-inch to 32-inch diagonal
- Pure glass construction

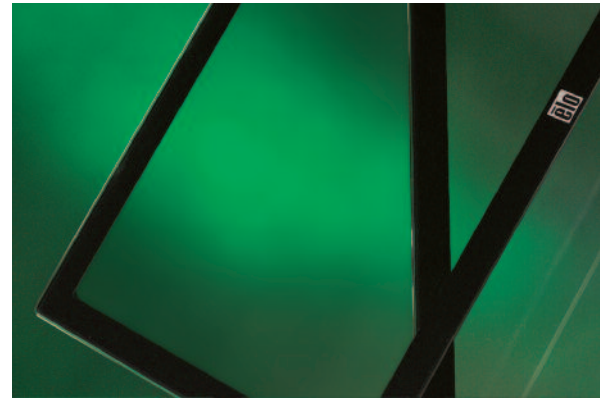
### **Benefits**

- Completely flat touchscreen offers sleek, refined appearance
- No bezel required for easy integration into touchmonitors, touch computers or other devices
- Same fast, accurate, and stable touch performance as IntelliTouch Plus
- No known wear-out mechanism

### **Applications**

- Desktop touch computers, All-in-One (AiO) and touch monitors
- Desktop multi-media device with display
- Point of information kiosks
- Vending and ticket sales
- Gaming, lottery, and amusement
- Multimedia marketing
- Banking and financial transactions
- Industrial control rooms

# iTouch Plus Zero-Bezel Surface Acoustic Wave Specifications



## MECHANICAL

Input Method	Finger or gloved hand (cloth, leather, or rubber) activation, or soft stylus
Profile	Front surface of touchscreen is completely flat
Available Sizes*	7.0" to 32"

## ELECTRICAL

Positional Accuracy	Standard deviation of error is not greater than 2.5mm and typically much less with calibration to display image
Resolution	6.19 points per mm typical (A/D sampling capability is extended by pattern recognition software)
Touch Activation Force	2 to 3 ounces (55 to 85 grams) typical
Controller	USB

## OPTICAL

Light Transmission	92% ± 2%
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## ENVIRONMENTAL

Temperature	Operating: 32° to 122°F (0°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, RoHS compliant
Sealability	iTouch Plus touchscreen has been successfully integrated by integrators to meet NEMA 3/3R/5/12/12K/13, IPX1 standards

## 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

\*Available in standard or to be made upon custom requests with in technology capability size offering. Please email Customer Service at [customerservice@elotouch.com](mailto:customerservice@elotouch.com) or contact your local office.

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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