



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.

Applications

- Desktop touchcomputers, All-in-One (AiO) and touchmonitors
- 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



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

About Elo

Elo founders pioneered the touch screen over 40 years ago. Today, Elo Touch Solutions is a leading global supplier of touch-enabled technology, products and industry solutions. The Elo portfolio encompasses the broadest selection of OEM touchscreen components, touchmonitors, and all-in-one touchcomputers for the demanding requirements of diverse markets, including gaming machines, hospitality systems, industrial automation, interactive kiosks, healthcare, office equipment, point of sale terminals, retail displays, and transportation applications. The Elo touch experience has consistently stood for quality, reliability and innovation with over 20 million installations worldwide.

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%
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 (3,048m); Storage/transport: 50,000 ft (15,240m)
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/8kV 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. iTouchz technology has been operationally tested to more than 50 million touches in one locationz 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 or contact your local office.

To find out more about our extensive range of Elo touch solutions, go to www.elotouch.com, or call the office nearest you.

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