



AccuTouch Zero-Bezel Five-Wire Resistive Touchscreens

For Human-Machine Interface

The Elo TouchSystems AccuTouch Zero-bezel touchscreens are based on the proven standard AccuTouch five-wire resistive technology, the preferred solution for applications that demand reliability, input flexibility, and contamination resistance. AccuTouch touchscreens, with proprietary Elo Touch Solutions resistive technology, deliver a touch response that is drift-free and accurate in high-use applications. The Zero-bezel design eliminates the need for a traditional front-bezel, achieving a smooth, seamless flat surface for a clean, modern look.

Compare the five-wire design of AccuTouch with a 4H coversheet hardness rating and where both X and Y measurements are made on a stable rear glass layer, with other resistive touchscreen designs using a flexing plastic coversheet that measure only one axis. As a result, AccuTouch touchscreens provide a longer product life backed by a five-year warranty—withstanding more than 35 million touches.

AccuTouch Zero-bezel touchscreens use a flexible printed circuit cable that virtually eliminates the cable attachment bump that is typical on most resistive touchscreens and enables a smooth, flat integration. The screens work with standard Elo controller/chip solutions and drivers under a wide variety of operating systems, and are available in a set of standard products as well as customized designs.

Benefits

- Flat cable attachments for seamless integration and customization capabilities
- Zero-bezel configuration for seamless design eliminates the traditional bezel that can collect dust and dirt
- No lamination of additional décor foil is required which helps to reduce costs and supply chain complexity
- Stable, drift-free operation
- Broad input flexibility
- Contamination resistance
- Accuracy in high-use applications
- Can be sealed to support NEMA 4/4x/12 and IP65 standards upon integration
- 4H pencil hardness resists scratching

Applications

- Point-of-sale (POS) terminals
- Voting machines
- Industrial automation
- Medical equipment
- Office automation
- Retail automation
- Pharmacy automation

AccuTouch Five-Wire Resistive Specifications

MECHANICAL

Input Method	Finger, gloved hand, or stylus activation
Available Sizes	7" to 22"; visit www.elotouch.com for full specifications and other offerings

ELECTRICAL

Positional Accuracy	Standard deviation error is less than 0.080 (2mm)
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096
Touch Activation Force	Typically less than 4 ounces (113 grams)
Controller	Board: Serial (RS232) and USB Chip: Serial (RS232) and USB

OPTICAL

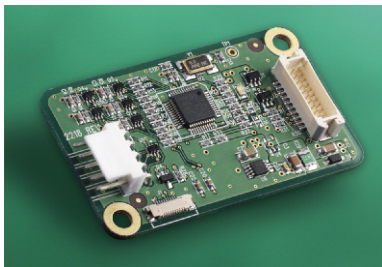
Light Transmission	HL products: 80% – 5% at 550nm wavelength
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ENVIRONMENTAL

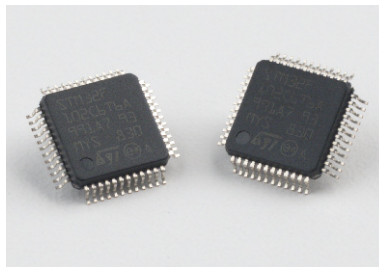
Temperature/ Relative Humidity	Operating: AccuTouch Zero-bezel—90% RH at 122°F (50°C) max Storage: AccuTouch Zero-bezel—90% RH at 122°F (50°C) max for 240 hrs, non-condensing
Altitude	Operating: 10,000 ft (3,048m) Storage/transport: 50,000 ft (15,240m)
Chemical Resistance	Industrial chemicals: acetone, methylene chloride, methyl ethyl ketone, isopropyl alcohol, hexane, turpentine, mineral spirits, unleaded gasoline, diesel fuel, motor oil, transmission fluid, antifreeze. Food-service chemicals: vinegar, coffee, tea, grease, cooking oil, salt, plus most commercial cleaners including ammonia-based glass cleaner and laundry detergent.
Electrostatic Protection	Per EN 61000-4-2, 1995: Withstands 20 discharges up to 15kV
Agency Approvals	UL, cUL, TÜV, CE, FCC Class A
Sealability	Can be sealed to meet NEMA 4 and 12 and IP 65 standards

DURABILITY

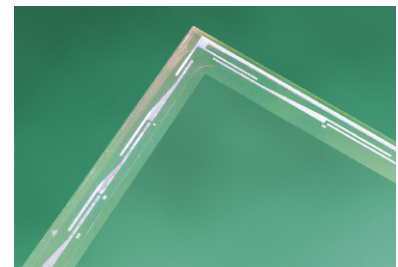
Surface Durability	AccuTouch Zero-bezel: meets pencil hardness 4H per ASTM D3363
Expected Life	Operationally tested to 35 million touches in one location without failure
Warranty	Touchscreen: 5-year limited warranty Controller: 5-year limited warranty



2218 combo controller board



COACH V combo controller chip



Z-border pattern for enhanced linearity

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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