



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 TE 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 Zero-Bezel 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

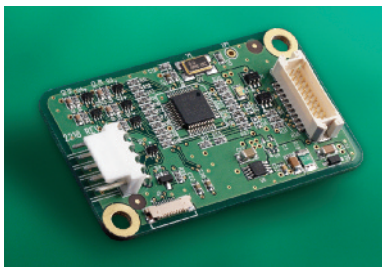
Light Transmission	HL products: 80% ±5% at 550nm wavelength
--------------------	--

ENVIRONMENTAL

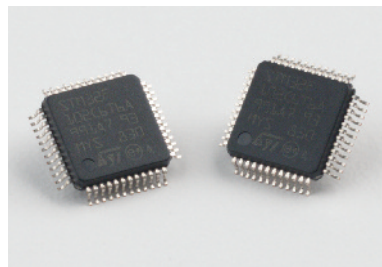
Temperature/ Relative Humidity	Operating: AccuTouch zero-bezel—90% RH at 122°F (50°C) max Storage: AccuTouch zero-bezel—90% RH at 122°F (50°C) max for 240 hrs, non-condensing
Altitude	Operating: 10,000 ft (3,048m) Storage/transport: 50,000 ft (15,240m)
Chemical Resistance	Industrial chemicals: acetone, 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

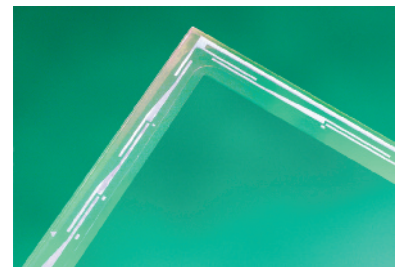
Surface Durability	AccuTouch zero-bezel: meets pencil hardness 4H per ASTM D3363
Expected Life	Operationally tested to 35 million touches in one location without failure
Warranty	Touchscreen: 5-year limited warranty Controller: 5-year limited warranty



2218 combo controller board



COAch V combo controller chip



Z-border pattern for enhanced linearity

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

North America

TE Touch Solutions
301 Constitution Drive
Menlo Park, CA 94025-1110

800-ELO-TOUCH

Tel 1-650-361-4800

Fax 1-650-361-4722

eloinfo@elotouch.com

Europe

Tel +32 (0)16 35 21 00

Fax +32 (0)16 35 21 01

elosales@elotouch.com

Asia-Pacific

Tel +81 (45) 478-2161

Fax +81 (45) 478-2180

www.tps.co.jp

Latin America

Tel 786-923-0251

Fax 305-931-0124

www.elotouch.com.ar



Tyco Electronics Corporation and its Affiliates in the TE Touch Solutions business unit of the TE Connectivity Ltd. family of companies (collectively "TE") reserves the right to change or update, without notice, any information contained herein; to change, without notice, the design, construction, materials, processing or specifications of any products; and to discontinue or limit production or distribution of any products.

AccuTouch, Elo (logo), Elo TouchSystems, TE Connectivity, TE connectivity (logo) and TE (logo) are trademarks of the TE Connectivity Ltd. family of companies.

Copyright 2012 Tyco Electronics Corporation, a TE Connectivity Ltd. Company. All rights reserved. 02/12

