



# Surface Capacitive

## Excellent General Purpose Technology

**Elo's Surface Capacitive touchscreens** are a reliable resource for the capacitive options currently available—and from a world-class manufacturer. They are ideal for use in gaming and casino applications, especially bar-top and slot machine installations.

Elo has utilized over 35 years of design knowledge and applied it to a completely new capacitive touchscreen product line. Elo's narrow, patented Z-borders yield an inherently linear sensor. The transparent protective coating makes the sensor resistant to scratches and abrasions. Touch performance is unaffected by everyday abuse and mishaps such as dirt, dust, condensation, liquid spills, contaminants or cleaning solutions. Yet the surface capacitive touchscreens respond quickly and easily with excellent dragging performance.

Elo's capacitive touchscreens deliver the quality touch response you would expect from Elo.

### Benefits

- Elo patented narrow Z-border electrode pattern for greater linearity
- Rear back shield for reliable operation
- Fast, sensitive touch response with excellent dragging performance
- Compatible with industry standard protocols including Elo's SmartSet protocol

### Applications

- Gaming/Amusement
- Point-of-Sale terminals (POS)
- Kiosks

# Surface Capacitive Specifications

## MECHANICAL

Input Method	Finger
Available Sizes	12" to 20" flat; Visit our Web site for full specifications and offerings
Glass Thickness	0.118" / 3.0 mm nominal. (Glass only, not including tape, wires and/or solder if used)

## ELECTRICAL

Positional Accuracy	Reported touch coordinates are within 1.5% of true position (based on viewing area dimensions)
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096
Controller	Board: Serial and USB
ESD	± 8kV contact; ± 27 kV DC

## OPTICAL

Light Transmission	Up to 85% per ASTM D1003
--------------------	--------------------------

## ENVIRONMENTAL

Temperature	Touchscreen    Operating: -15°C to 70°C Storage: -50°C to 85°C Controller        Operating: -40°C to 70°C Storage: -50°C to 85°C
Relative Humidity	Operating/Storage: 10% to 90% RH, noncondensing
Chemical Resistance	Water, ammonia, isopropyl alcohol, and similar non-abrasive cleaners
Agency Approvals	UL, cUL, TÜV, CE, FCC Class A & B, CISPR B
Sealability	Can be sealed to meet NEMA 4 and 12 and IP 65 standards

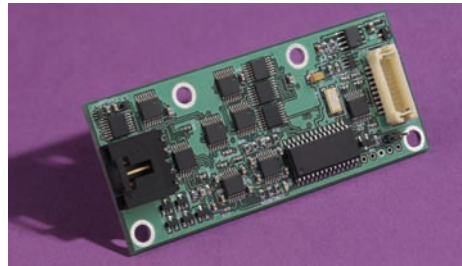
## DURABILITY

Surface Durability	Anti-glare hardcoat cannot be scratched using any stylus with Mohs rating equal to or less than 6.
Expected Life	Tested in the laboratory to withstand over 160 million (mechanically simulated) touches without noticeable degradation
Warranty	Touchscreen    5-year limited warranty Controller        5-year limited warranty

\*Always store the touch screen sensor and controller in its original shipping container. Never store them in an environment where condensation may form.



Z-border electrode pattern for enhanced linearity



5020 dual serial and USB controller

To find out more about Elo's extensive range of touch solutions, go to [www.elotouch.com](http://www.elotouch.com), or call the office nearest you.

### North America

Elo TouchSystems  
301 Constitution Drive  
Menlo Park, CA 94025-1110

800-ELO-TOUCH

Tel 1-650-361-4700  
Fax 1-650-361-4747  
[eloinfo@elotouch.com](mailto:eloinfo@elotouch.com)

### Europe

Tel +32 (0)16 35 21 00  
Fax +32 (0)16 35 21 01  
[elosales@elotouch.com](mailto:elosales@elotouch.com)

### Asia-Pacific

Tel +81 (45) 478-2161  
Fax +81 (45) 478-2180  
[www.tps.co.jp](http://www.tps.co.jp)

### Latin America

Tel 1-305-428-5210  
Fax 1-305-717-4909  
[www.elotouch.com.ar](http://www.elotouch.com.ar)



Tyco Electronics 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.

Elo TouchSystems, Surface Capacitive, TE Logo and Tyco Electronics are trademarks.  
Copyright 2007 Tyco Electronics Corporation ELO-168 9/07

