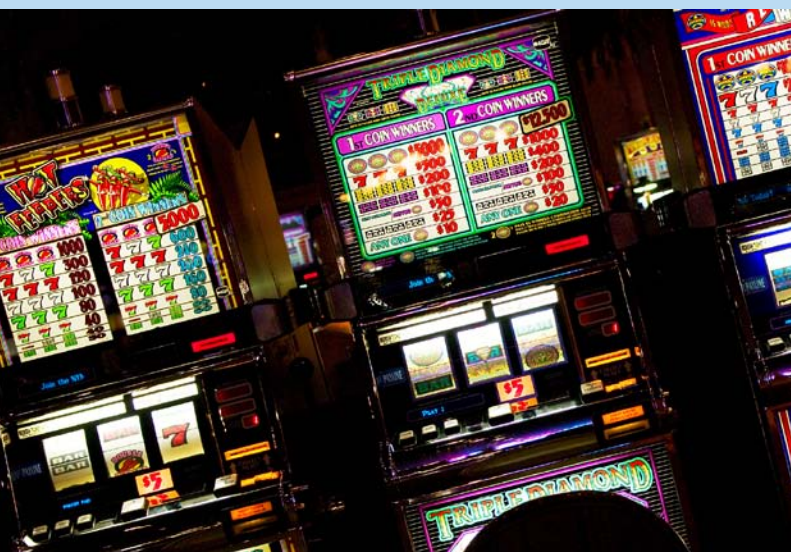




Touch Solutions for Your Application





Why work with a leader?

TE Connectivity's Elo TouchSystems, a pioneer in touch technology, manufactures a complete line of touch solutions that simplify the interface between people and computers. Our solutions are designed for the demanding requirements of diverse markets and applications across the globe.



Leader in innovation and quality

As an inventor of touch technology almost 40 years ago, we have been a pioneer ever since. Today, all our products are designed for touch and come in a wide variety of configurations and forms. Elo TouchSystems monitors are state-of-the-art, with high-quality displays, stable, drift-free operation, consistent reliability and durability. And we pay attention to the tiniest details, so our customers consistently receive the best in engineering too.

Leader in touch technology

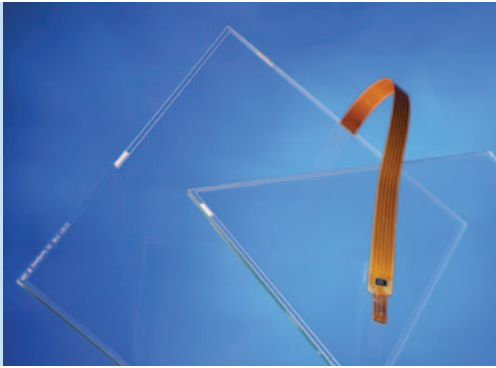
We have such a wide range of touch technologies we suit virtually any application. For decades, Elo TouchSystems products have been successfully installed in applications such as cash registers, kiosks, vending machines, process automation or control, medical applications like pharmacies, hospitals and doctor's offices, ATM machines, web phones, and so on. The list is endless...

Leader in service and support

Doing business with us is easy. Our sales and service teams, as well as our distribution partners, are organized to be fast, competent and close to you. Our teams and our distributors' teams take care that there is a technical support center or an office nearby, with people who speak your language. And last, but not least, our customization department is dedicated to developing tailor-made solutions at your request.

- 40 years experience in the touch industry
- Broadest offering of touch technologies for virtually any application
- Consistently reliable, accurate, and durable products
- Stable, drift-free operation; scratch-resistant
- Recognized durability and performance
- Wide variety of configurations and form factors for design flexibility
- First-class service and support with worldwide sales people, sales partners, technical support and warehouses
- Custom solutions for special requirements
- Long, worldwide warranties
- Worldwide agency approvals

An overview of our touch solutions



Components

- Touchscreens, touchscreen controllers and drivers
- Wide range of sizes from small to large
- Touch technologies include:
 - Acoustic Pulse Recognition
 - 5-Wire Resistive
 - Surface Acoustic Wave
 - Projected Capacitive
 - Capacitive
 - Infrared and technologies for handheld and mobile applications



Desktop touchmonitors

- Wide range of sizes from 12" to 42"
- Entry-level, multi-function and large-size models
- Standard and wide-screen formats
- Models with seamless zero-bezel design (uninterrupted surface area)
- Base can be reversed or removed for wall-mount
- Multifunction units with optional peripherals
- Choice of touch technologies



Chassis and wall mount touchmonitors

- Wide range of sizes from 12" to 32"
- Multiple mounting options include rear-mount, VESA mount, panel-mount, front-mount and rack-mount
- Standard and wide-screen formats
- Integrated precision mini-bezel with watertight 0.5mm seal
- Compact and easy to integrate
- Choice of touch technologies



All-in-One touchcomputers

- 15", 17", 19" and 22"; standard and wide-screen format
- Space-saving models with computing functionality integrated in the footprint of a standard LCD monitor and models designed for POS applications
- Models with seamless zero-bezel design (uninterrupted surface area)
- Field-installable peripherals such as magnetic stripe reader, customer display, finger print reader and barcode scanner
- Choice of touch technologies



Interactive Digital Signage displays

- 32", 42" and 46"
- Optional field-installable computer module
- Wall-mount, optional stand for desktop use
- Landscape or portrait orientation
- Pure-glass touchscreens for superior image quality










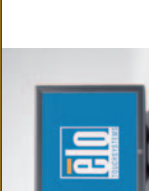





A touch technology for every application

TE Touch Solutions has the widest portfolio of touch technologies, each optimized for different operating characteristics and environments to suit your application requirements.

Technology	Benefits	Applications
Acoustic Pulse Recognition APR	<ul style="list-style-type: none"> ▪ Optics and durability of pure glass ▪ Works with finger, glove, pen, credit card ▪ Resistant to water, dust, grease ▪ No wear-out mechanism ▪ Works even with scratches ▪ One time factory calibration, no drift ▪ Thin borders - only 5mm ▪ Zero-bezel design ▪ Small and large sizes ▪ Palm rejection 	<ul style="list-style-type: none"> ▪ Restaurant and hospitality automation ▪ Point-of-Sale (POS) terminals ▪ Pharmacy automation ▪ Industrial automation ▪ Office automation ▪ Interactive digital signage ▪ Portable devices
AccuTouch Five-wire resistive	<ul style="list-style-type: none"> ▪ Stable, drift-free operation ▪ Broad input flexibility ▪ Contamination resistance ▪ Accuracy in high-use applications ▪ Long product life ▪ Meets NEMA 4/4x/12 and IP 65 standards ▪ Zero-bezel version available 	<ul style="list-style-type: none"> ▪ Point-of-sale (POS) terminals ▪ Voting machines ▪ Industrial automation ▪ Medical equipment ▪ Office automation ▪ Retail automation ▪ Pharmacy automation
CarrollTouch Infrared	<ul style="list-style-type: none"> ▪ Low profile, high resolution ▪ No parallax ▪ Highest clarity ▪ High durability, vandal resistance, and safety ▪ Sealable from contaminants ▪ Operates in extreme environments 	<ul style="list-style-type: none"> ▪ Food processing ▪ Industrial automation ▪ Medical equipment ▪ In-vehicle and transportation ▪ Point-of-sale terminals
IntelliTouch Surface acoustic wave	<ul style="list-style-type: none"> ▪ Pure glass construction delivers the ultimate in image quality ▪ Stable, drift-free operation ▪ Continues to work even if scratched ▪ Sensitive touch response 	<ul style="list-style-type: none"> ▪ Kiosks ▪ Ticketing machines ▪ Gaming machines ▪ Light industrial ▪ Office automation ▪ Interactive digital signage












Technology	Benefits	Applications
SecureTouch Anti-vandal surface acoustic wave	<ul style="list-style-type: none"> ▪ Tempered, heat or chemically strengthened glass ▪ High impact resistance (about 2.5 times stronger than IntelliTouch) ▪ Meets UL-60950 ball drop test ▪ Privacy filter option 	<ul style="list-style-type: none"> ▪ ATMs ▪ Ticketing machines ▪ Kiosks
iTouch Zero-bezel surface acoustic wave	<ul style="list-style-type: none"> ▪ Completely flat touchscreen, sleek and refined appearance ▪ No bezel required for easy integration ▪ Same fast, accurate and stable performance as IntelliTouch 	<ul style="list-style-type: none"> ▪ Kiosks ▪ Ticketing machines ▪ Gaming machines ▪ Gaming and amusement ▪ Office automation ▪ Interactive digital signage
Surface capacitive	<ul style="list-style-type: none"> ▪ Elo proprietary narrow Z-border for enhanced linearity ▪ Fast, sensitive touch response with excellent dragging performance ▪ Compatible with industry standard protocols including Elo SmartSet protocol 	<ul style="list-style-type: none"> ▪ Point-of-Sale terminals (POS) ▪ Gaming/Amusement ▪ Kiosks
Projected capacitive	<ul style="list-style-type: none"> ▪ Works outdoors ▪ Touch function operates through customer installed materials, including vandal-resistant glass up to 18 mm thick ▪ True-flat front surface possible with no bezel ▪ Works with gloves ▪ Works even if glass is scratched or broken 	<ul style="list-style-type: none"> ▪ Outdoor kiosks ▪ Ticketing machines ▪ ATMs ▪ Web phones ▪ Pay-at-the pump machines ▪ Through-glass, under-counter, and bar-top applications

Desktop Touchmonitor Product Portfolio

					
Colour Contrast ratio Brightness cd/m² (panel) Viewing angle Technologies* Comments	Grey 500:1 200 140°:100° AT, IT	Grey or beige 500:1 250 140°:115° APR, AT, IT Field-installable MSR	Grey 500:1 250 90°:65° Zero-Bezel APR, AT, IT, Field-installable MSR Wide-aspect (16:9)	Grey or beige 500:1 250 140°:120° APR, AT, IT, CT Field-installable MSR Tall stand option	Grey or beige 400:1 350 150°:125° AT For medical applications
					
Colour Contrast ratio Brightness cd/m² (panel) Viewing angle Technologies* Comments	Grey or beige 400:1 350 140°:120° APR, AT, CT, IT MSR, fingerprint reader, rear display, tall base	Grey 800:1 280 160°:160° APR, AT, IT Field-installable MSR	Grey or beige 800:1 300 160°:160° APR, AT, CT, IT, MSR Fingerprint reader, rear display, speakers, barcode scanner	Grey or beige 1000:1 300 160°:160° Zero-Bezel APR, IT Wide-aspect (16:10)	Grey 800:1 300 160°:155° APR, AT, IT
					
Colour Contrast ratio Brightness cd/m² (panel) Viewing angle Technologies* Comments	Grey 1000:1 250 170°:160° Zero-Bezel APR, AT, IT Wide-aspect (16:9) Field-installable MSR	White 1000:1 300 170°:160° Zero-Bezel APR, AT, IT For medical applications	Grey or beige 1300:1 300 178°:178° AT, IT, APR For medical applications	Grey or beige 1000:1 300 160°:160° Zero-Bezel APR, IT Wide-aspect (16:10)	White 1000:1 300 160°:160° AT, IT For medical applications

(*) APR= Acoustic Pulse Recognition AT= AccuTouch 5-wire resistive IT= IntelliTouch surface wave IT Plus = IntelliTouch with multi-touch capability ST= SecureTouch anti-vandal surface wave
CT = CarrolITouch infrared SC= Surface Capacitive.

Open-frame Touchmonitor Product Portfolio

				
	1247L — 12"	1537L — 15"	1739L — 17"	1937L — 19"
Aspect ratio Contrast ratio Brightness cd/m² (panel) Viewing angle Native resolution Technologies*	4:3 500:1 350 130°:105° 800 x 600 at 60 Hz IT	4:3 500:1 250 140°:115° 1024 x 768 at 60 Hz APR, AT, CT, IT, SC, ST	5:4 1000:1 250 160°:160° 1280 x 1024 at 60 Hz APR, AT, CT, IT, SC, ST	5:4 800:1 250 160°:155° 1280 x 1024 at 60 Hz APR, AT, IT
				
	1938L — 19"	1939L — 19"	2239L — 22"	
Aspect ratio Contrast ratio Brightness cd/m² (panel) Viewing angle Native resolution Technologies*	16:10 1000:1 300 160°:160° 1440 x 900 at 60 Hz APR, IT, SC, ST	5:4 1300:1 250 178°:178° 1280 x 1024 at 60 Hz APR, AT, CT, IT, SC, ST	16:10 1000:1 300 170°:160° 1680 x 1050 at 75 Hz APR, IT, SC	
				
	2240L — 22"	2242L — 22"	2639L — 26"	3239L — 32"
Aspect ratio Contrast ratio Brightness cd/m² (panel) Viewing angle Native resolution Technologies*	16:10 1000:1 400 178°:178° 1680 x 1050 at 60 Hz IT, SC	16:10 1000:1 300 160°:160° 1680 x 1050 at 60 Hz IT Plus	16:9 3000:1 450 178°:178° 1366 x 768 at 60 Hz APR, IT, SC	16:9 3000:1 450 178°:178° 1366 x 768 at 60 Hz APR, IT



(*) APR= Acoustic Pulse Recognition AT= AccuTouch 5-wire resistive IT= IntelliTouch surface wave CT= CarrolITouch infrared SC= Surface Capacitive IT Plus= IntelliTouch multi-touch
 © ST= SecureTouch anti-vandal surface wave. Information subject to change. For more information visit www.elotouch.com.

All-in-One Touchcomputer Product Portfolio

				
	1520 Standard – 15"	1520 Advanced – 15"	15D1 – 15" and 17D1 – 17"	15D2 – 15" and 17D2 – 17"
Processor	Intel Atom Dual-Core 1.6GHz	Intel Core 2 Duo 3.0GHz	Intel Dual-Core Celeron 2.2GHz	Intel Core 2 Duo 3.0GHz
Memory	1GB	2GB	1GB	2GB
Hard drive	80GB	160GB	160GB	160GB
Operating systems	Windows XP, WEPOS, no OS AT, IT	Windows XP, WEPOS, no OS APR	Windows XP, WEPOS, no OS, Windows 7, POS Ready 2009	Windows XP, WEPOS, no OS, Windows 7, POS Ready 2009
Technologies*	Advanced graphics chipset.	Advanced graphics chipset.	Zero-Bezel APR, AT, IT	Zero-Bezel APR, AT, IT
Comments			MSR, fingerprint reader, rear display, barcode scanner, 2nd hard drive	MSR, fingerprint reader, rear display, barcode scanner, 2nd hard drive
				
	COOL & QUIET 15B2 – 15" and 17B2 – 17"	PERFORMANCE 15B1 – 15" and 17B1 – 17"	PERFORMANCE ULTRA 15B3 – 15" and 17B3 – 17"	19R1 – 19"
Processor	Intel Atom Dual-Core 1.6GHz	Intel Celeron Dual-Core 2.2GHz	Intel Core 2 Duo 3.0GHz	Intel Atom Dual-Core 1.6GHz
Memory	1GB	2GB	2GB	1GB
Hard drive	160GB	160GB	160GB	80GB
Operating systems	Windows XP, no OS, Windows 7, POS Ready 2009	Windows XP, no OS, Windows 7, POS Ready 2009	Windows XP, no OS, Windows 7, POS Ready 2009	Windows XP, no OS
Technologies*	Zero-Bezel APR, Zero-Bezel AT, IT	Zero-Bezel APR, Zero-Bezel AT, IT	Zero-Bezel APR, Zero-Bezel AT, IT	Zero-Bezel APR
Comments	No fan; MSR, fingerprint reader, rear display, Wireless, SSD, 2nd hard drive	MSR, fingerprint reader, rear display, Wireless, SSD, 2nd hard drive	MSR, fingerprint reader, rear display, Wireless, SSD, 2nd hard drive	MSR, DVD burner, speaker bar, USB wireless adapter, TV tuner card
				
	19R2 – 19"	19MR1 – 19"	19C2 – 19" and 22C2 – 22"	19C3 – 19" and 22C3 – 22"
Processor	Intel Pentium 2.6GHz	Intel Atom Dual-Core 1.6GHz	Intel Atom Dual-Core 1.66GHz	Intel Core 2 Duo 3.0GHz
Memory	2GB	1GB	2GB	2GB
Hard drive	160GB	160GB	160GB	160GB
Operating systems	Windows XP, no OS	Windows XP, no OS	Windows7, POSReady 2009, No OS AT, IT Plus, iTouch	Windows7, POSReady 2009, No OS AT, IT Plus, iTouch
Technologies*	MSR, DVD burner, speaker bar, USB wireless adapter, TV tuner card	Zero-Bezel APR	MSR, rear display, webcam, I/O and capacity upgrades	MSR, rear display, webcam, I/O and capacity upgrades
Comments		For medical applications Same accessories as 19R1 and 19R2.		

(*) APR= Acoustic Pulse Recognition AT= AccuTouch 5-wire resistive IT= IntelliTouch surface wave. Information subject to change. For more information visit www.elotouch.com.

Interactive Digital Signage (IDS) Product Portfolio

		<p>3200L — 32"</p> <p>Dark grey; operational in portrait or landscape model 16:9 Wall mount with optional desktop stand 3500:1 LCD panel: 450 nits; with APR: 405 nits; IT: 405 nits 178°:178° Zero-Bezel APR, IT Plus True High Definition (HD) 720p (1366 x 768); seamless, field installable, optional computer modules, docking integration; analog VGA and HDCP-capable HDMI 1.3, video; two 10W speakers</p>		<p>4200L — 42"</p> <p>Dark grey; operational in portrait or landscape model 16:9 Wall mount with optional desktop stand 3500:1 LCD panel: 700 nits; with APR: 600 nits; IT: 600 nits 178°:178° Zero-Bezel APR, IT True High Definition (HD) 1080p (1920 x 1080); seamless, field installable, optional computer modules, docking integration; analog VGA and HDCP-capable HDMI 1.3, video; two 10W speakers</p>
<p>Enclosure Aspect ratio Form factor Contrast ratio Brightness (typical) Viewing angle Touch Technologies* Comments</p>	<p>4600L — 46"</p> <p>Dark grey; operational in portrait or landscape model 16:9 Wall mount with optional desktop stand 3500:1 LCD panel: 450 nits; with APR: 405 nits; IT: 405 nits 178°:178° Zero-Bezel APR, IT True High Definition (HD) 1080p (1920 x 1080); seamless, field installable, optional computer modules, docking integration; analog VGA and HDCP-capable HDMI 1.3, video; two 10W speakers</p>			<p>IDS Computer Modules</p> <p>ECM1 Module: Intel Celeron Dual-Core 2.2GHz 1GB 160GB Windows XP, Windows 7, no OS Designed specifically for the Elo IDS touch displays. No cables required; seamless docking integration.</p> <p>ECM2 Module: Intel Core 2 Duo 3.0GHz 2GB 160GB Windows XP, Windows 7, no OS Designed specifically for the Elo IDS touch displays. No cables required; seamless docking integration.</p>

Give Your Digital Signage Customers More Options with Touch

- Interactive Digital Signage will generate more customer engagement and metrics vs traditional signage
- Attractive, professional-grade displays are rugged enough to handle the constant interactivity from public access
- Typical consumer televisions or displays are not built to function in public access environments
- Elo TouchSystems Interactive Digital Signage displays are designed for use in either portrait or landscape mode.



(*) APR= Acoustic Pulse Recognition. IT= IntelliTouch surface wave.
IT Plus= IntelliTouch multi-touch.
Information subject to change. For more information visit www.elotouch.com.

Elo TouchSystems is a brand within the TE Touch Solutions business of TE Connectivity. With a 50-plus year history of leadership, TE Connectivity is a global, \$12.1 billion company that designs and manufactures over 500,000 products that connect and protect the flow of power and data inside the products that touch every aspect of our lives. Our nearly 100,000 employees partner with customers in virtually every industry—from consumer electronics, energy and healthcare, to automotive, aerospace and communication networks—enabling smarter, faster, better technologies to connect products to possibilities.

To find out more about TE Touch Solutions, go to www.elotouch.com or call the office nearest you.

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