



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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3M Touch Systems

Innovative Touch Products



Highlights

- World-renowned touch technologies and products
- Global Application Engineering Support
- Award-winning Customer Service

3M Touch Systems offers a wide portfolio of touch technologies and touch products with a commitment to ease of integration, responsiveness, reliability and simplicity of use. Our continued success in delivering innovative touch solutions is fostered by our commitment to be a leader in the touch industry.

Our world-class support and service organizations provide expert technical consulting services and support wherever our products are designed, integrated or delivered. It is this complete solution approach that ensures remarkable compatibility and exceptional service, backed by 3M.

MicroTouch™ ClearTek™ Capacitive Touch Screens

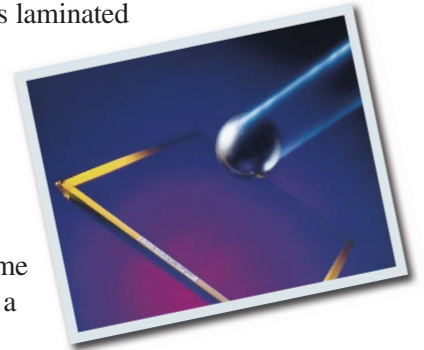
MicroTouch™ ClearTek™ II Capacitive

ClearTek™ II Touch Screens offer a high endurance solution that shrugs off on-screen contaminants such as chemicals, grease, dirt, and water without interrupting operation. Ideal for a multitude of touch applications where exceptional performance, vibrant optics and environmental robustness is mission critical, 24-hours a day, 7 days a week. Available in display sizes ranging from 6.4" to 32".



MicroTouch™ ToughTouch Capacitive

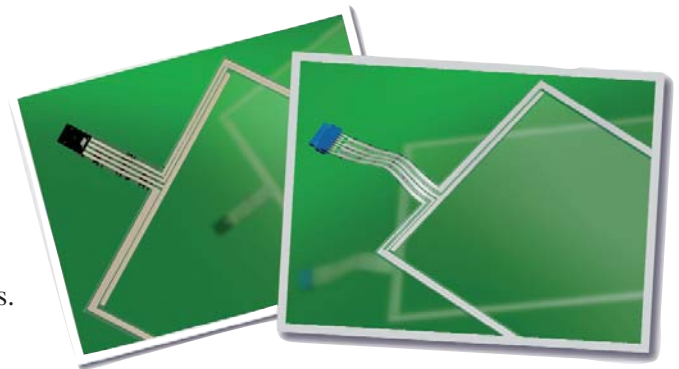
ToughTouch is a ClearTek™ Touch Screen with a layer of strengthened glass laminated to the back. ToughTouch provides increased impact-resistance for flat sensors in industrial, unattended, or vandal-prone environments. ToughTouch offers the same contaminant-resistance as a ClearTek™ touch screen.



MicroTouch™ Resistive Touch Screens

MicroTouch™ 4-wire and 8-wire Resistive

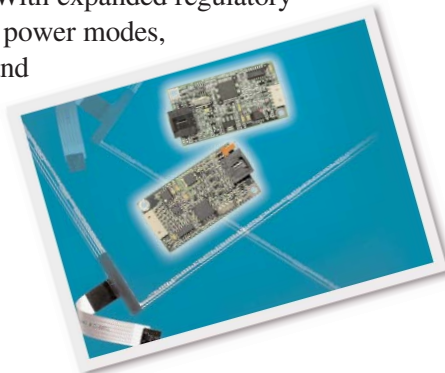
MicroTouch™ Resistive Touch Screens operate with a bare finger, gloved hand, stylus, or other pointing devices. Ideal for use in a variety of environments, including food service, point-of-sale, hospitality and light industrial applications, MicroTouch™ Resistive Touch Screens provide a fast response time and the low activation force. These polyester-laminated (PL) resistive touch screens offer a break-resistant design, as well as, withstand temperature and humidity fluctuations in demanding environments.



MicroTouch™ Electronics

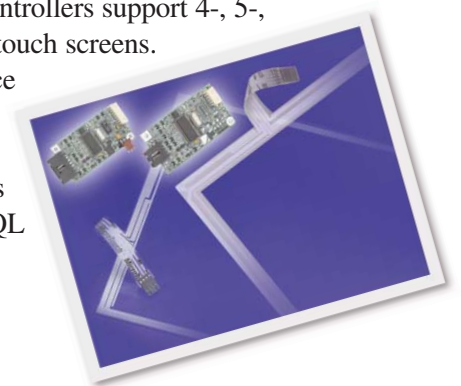
MicroTouch™ EX II Series Controllers

MicroTouch™ EX II Controllers bring flexibility and feature-rich functionality to capacitive and resistive touch screen applications. With expanded regulatory approvals, improved power modes, and enhanced ESD and EMI protection, this controller series is a robust solution for popular touch applications.



MicroTouch™ SC Series Controllers

MicroTouch™ SC Controllers support 4-, 5-, and 8-wire resistive touch screens. The high performance feature set with state-of-the-art components provides USB, HID and WHQL compliance.



For information, please call **888-659-1080** or visit **www.3Mtouch.com**

MicroTouch
3M

MicroTouch™ Touch Monitors

MicroTouch™ Touch Monitors meet many of the latest industry compliance requirements and are backed by a 3-year monitor, 5-year touch screen warranty.



MicroTouch™ M150 15" LCD Touch Monitor

- 250 nit, 350:1 contrast ratio LCD
- Positive locking adjustment feature
- Display angle adjustable from 0 to 60 degrees
- VESA mounting compatible
- Peripheral Attachment System
- ClearTek™ II Capacitive or 5-wire Resistive touch technology

www.M150monitor.com

MicroTouch™ M170 17" LCD Touch Monitor

- 400 nit, 500:1 contrast ratio LCD
- Locking display adjustment
- Wall and VESA mountable
- DVI-I digital and 15 pin D-sub analog video support
- Peripheral Attachment System
- Display angle adjustable from -5 to 90 degrees
- ClearTek™ II Capacitive or 5-wire Resistive touch technology

www.M170monitor.com



Slimline Bezel (standard)



Contoured Flanged Bezel (optional)

MicroTouch™ Chassis/Kiosk Touch Monitors

- ClearTek™ II Capacitive touch technology
- Multiple mounting options
- Remote OSD
- Robust metal enclosure
- VESA-mount compliant
- Available in 15" and 17" display sizes
- Three bezel options for maximum design flexibility: *Slimline*, *Contour Flanged*, and *Industrial Flanged*



Industrial Flanged Bezel (optional)



Mounting Bracket



Remote OSD

Popular Touch Applications

Gaming and Entertainment

Casino game manufacturers around the globe have found touch screens indispensable in providing a richer, more interactive gaming experience for casino players.



Financial

From Main Street to Wall Street, touch screens help simplify the complex world of banking and finance. ATMs were at the forefront of adopting touch screen technology for their intuitive ease-of-use and durability in public places. On the stock exchange floor and at brokerage houses, touch-based applications help accelerate the trading process while providing on-line trading information.



Industrial

Touch can be applied virtually anywhere on a factory floor. From process automation to quality control, touch is fast becoming a preferred solution. Touch-enabled products provide users with a space saving, NEMA sealable option for challenging environments.



Healthcare

Instrumental in healthcare environments, touch solutions add convenience and reliability to applications including patient records, nurse stations, and patient monitoring systems. 3M's Resistive touch solutions support glove use for examination equipment while privacy solutions offer increased confidentiality in busy healthcare environments.



Self-Service Kiosks

Touch-enabled kiosks provide self-service capabilities as well as access to information 24-hours a day, 7 days a week. Self-service kiosks are used to provide services ranging from buying theater tickets, to viewing information directories, to self check-in at airports and self check-out in retail environments.



Mobile Devices

The never-ending challenge for today's mobile device designers is to make tomorrow's devices smaller, lighter, and more durable. 3M touch solutions are critical in solving the design challenges for mobile devices: tight space constraints, size, weight, ruggedness, durability, and low power consumption.



Point-of-Sale

Intuitive touch solutions offer numerous opportunities to retail and point-of-sale environments including cash registers in retail outlets and food ordering systems in bars and restaurants. Touch solutions can also be beneficial for kitchen staff filling orders and for seating charts and reservation schedules.



3M Touch Systems 3M Display & Graphics Business

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www.3Mtouch.com

Worldwide Manufacturing Plants

Methuen, Massachusetts
Milwaukee, Wisconsin
Vancouver, BC Canada

For more information
on 3M touch products,
visit 3Mtouch.com or
call toll-free 1-866-659-1080

NOTICE: Given the variety of factors that can affect the use and performance of a 3M Touch Systems Product (the "Product"), including that solid state equipment has operation characteristics different from electro mechanical equipment, some of which factors are uniquely within User's knowledge and control, it is essential that User evaluate the 3M Touch Systems Product and software to determine whether it is suitable for User's particular purpose and suitable for User's method of application. 3M Touch Systems' statements, engineering/technical information, and recommendations are provided for User's convenience, but their accuracy or completeness is not warranted. 3M Touch Systems products and software are not specifically designed for use in medical devices as defined by United States federal law. 3M Touch Systems products and software should not be used in such applications without 3M Touch Systems' express written consent. User should contact its sales representative if User's opportunity involves a medical device application.

IMPORTANT NOTICE TO PURCHASER: Specifications are subject to change without notice. These 3M Touch Systems' Products and software are warranted to meet their published specifications from the date of shipment and for the period stated in the specification. **3M Touch Systems makes no additional warranties, express or implied, including but not limited to any implied warranties of merchantability or fitness for a particular purpose.** User is responsible for determining whether the 3M Touch Systems Products and software are fit for User's particular purpose and suitable for its method of production, including intellectual property liability for User's application. If the Product, software or software media is proven not to have met 3M Touch Systems' warranty, then 3M Touch Systems' sole obligation and User's and Purchaser's exclusive remedy, will be, at 3M Touch Systems' option, to repair or replace that Product quantity or software mediator to refund its purchase price. 3M Touch Systems has no obligation under 3M Touch Systems' warranty for any Product, software or software media that has been modified or damaged through misuse, accident, neglect, or subsequent manufacturing operations or assemblies by anyone other than 3M Touch Systems. **3M Touch Systems shall not be liable in any action against it in any way related to the Products or software for any loss or damages, whether non-specified direct, indirect, special, incidental or consequential (including downtime, loss of profits or goodwill) regardless of the legal theory asserted.** (7/02)