

# ExtremeTouch

## Projected Capacitive Touch Technology

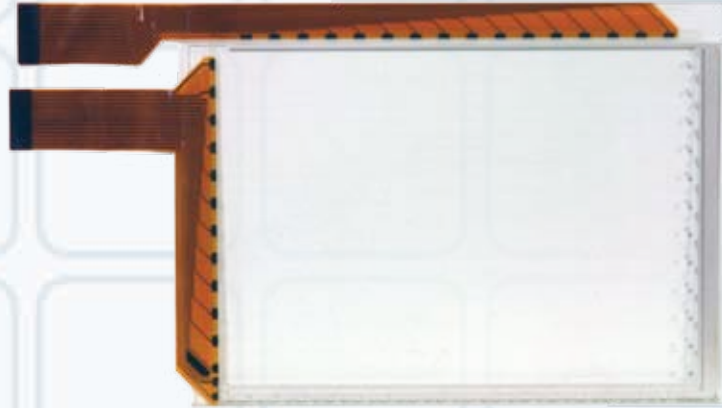
Touch International's ExtremeTouch is the world's thinnest and only form fitting, unbreakable, wear-resistant touch screen. Our newest technology is ideal for retail signature capture, web phones, global positioning systems and other handheld applications where thinness, added durability and low weight are crucial to design advances.

### At a Glance

- Extremely Durable
- Easy to Use
- Highly Accurate
- Exceedingly Reliable
- Advanced Functionality
- Operates in Environmental Extremes
- Works with Finger, Gloves and Active Stylus

### Applications

- Retail Signature Capture
- Web Phones
- Medical Instrumentation



ExtremeTouch is an advanced touch sensitive interface solution that senses the position of a person's finger. The revolutionary new technology can effectively transform any transparent material into a functioning touch screen, thereby giving customers the versatility to choose from a variety of first surface materials including window store fronts, table tops or bullet proof glass.

When it comes to durability, ExtremeTouch is immune to moisture and dirt, extremes in temperature and is impervious to surface scratches. ExtremeTouch is easy to use, requiring only a slightly touch to activate - no pressure is necessary. ExtremeTouch is both precise and highly responsive. ExtremeTouch doesn't require recalibration, while being virtually maintenance free and comes with a 10 year warranty.

### Touch Screens

Size	Part Number
3.5"	88-F-PMC-35-005
5.7"	88-F-PMC-57-003
7.0"	88-F-PMC-70-007
8.4"	88-F-PMC-84-003
10.4"	88-F-PMC-104-004
12.1"	88-F-PMC-121-008
15.0"	88-F-PMC-150-005

### Evaluation Kits

Size	Part Number
3.5"	88-F-PMC-35-KIT
5.7"	88-F-PMC-57-KIT
7.0"	88-F-PMC-70-KIT
8.4"	88-F-PMC-84-KIT
10.4"	88-F-PMC-104-KIT
12.1"	88-F-PMC-121-KIT
15.0"	88-F-PMC-150-KIT
15.0"	88-F-PMC-150-KIT-02

### Modules

Size	Part Number
3.5"	88-F-PMC-35-MDL-01
7.0"	88-F-PMC-70-MDL-01
8.4"	88-F-PMC-84-MDL-01
10.4"	88-F-PMC-104-MDL-01
12.1"	88-F-PMC-121-MDL-01
15.0"	88-F-PMC-150-MDL-01



Sales@touchintl.com  
www.touchinternational.com

2222 W. Rundberg Ln., Ste. 200, Austin, TX, 78758  
T: 512-832-8292 F: 512-832-8291



ExtremeTouch is based on technology that enables a pointing device or finger to sense through a protective screen in front of the display. When touched, a capacitance forms between the finger or pointing device and the laminated touch screen. The embedded serial or USB controller in the touch screen calculates the touch location coordinates and transmits them to the computer for processing.

## Specifications

### Optical

Light Transmission	Glass/Film/Film - 88% ± 2 (typical) Glass/Glass - 89% ± 2 (typical)
--------------------	--

### Electrical

Input Method	Finger, Gloved Hand or Stylus
Insulation Impedance	Exceeds 20 Meg Ohms, @10KV
Operational Voltage	D.C. 5V
Linearity	99.5% Accuracy
Chattering Time	10msec or Less
Communication	RS-232C TTL Level, PS2, USB
Pen Tracking Speed	1016mm/Sec.

### Mechanical

Surface Hardness	Scrape Hardness - Plastic 4H, Glass 9H
Touch Activation Force	75g (Typical)
Response Times	<10ms

### Environmental

Operation Temperature	-15°C ~ 70°C
Storage Temperature	-40°C ~ 80°C
Humidity	10% - 90% RH, Non-Condensing
Touch Durability	300 Million Touches in a Single Location (Electrically) 250 Million Touches in a Single Location (Cosmetically)
Flammability*	UL 94HB (Varies Based on Touch Screen Materials)
Chemical Resistance*	Tested for Resistance to Methyl Alcohol (50%), Ethyl Alcohol (50%) Toluene, Acetone, Benzene, Etc.

### Other Specifications

Standard Touch Screen Thickness (Glass)	.36mm ~ 3mm
Warranty	10 Years

\* Specifications are subject to change.

For additional information on Touch International products and solutions, contact a sales representative or e-mail [sales@touchintl.com](mailto:sales@touchintl.com).



Sales@touchintl.com  
www.touchinternational.com

2222 W. Rundberg Ln., Ste. 200, Austin, TX, 78758  
T: 512-832-8292 F: 512-832-8291

