

# MULTI-Touch

## Projected Capacitive Touch Technology

Pushing the envelope for projected capacitive capabilities, MULTI-Touch Technology, from Touch International, works with finger, glove and pen input, functions in cold, hot and wet environments and supports up to 10-finger touch, expanding traditional touch screen capabilities and enhancing touch screen functionality.

### At a Glance

- Multi-touch Capable (Up to 10 Fingers)
- Windows 7 Compatible
- True Touch with Gesture
- Finger, Glove and Passive Pen Input
- Available with up to 3mm Thick Glass or Plastic Cover Glass
- Works with <1mm Surface Water or Droplets
- Hardware & Firmware can be Modified to Meet Stringent EMI Standards



MULTI-Touch is immune to most on-screen contaminants, extreme temperatures and works with water spray. MULTI-Touch is easy to use, requiring only a slight touch to activate - no pressure is necessary - and is both precise and highly responsive. MULTI-Touch doesn't require recalibration, is virtually maintenance free and comes with a 10 year warranty.

### Applications

- Military Equipment
- Aerospace Systems
- Industrial Automation
- Retail Signature Capture
- Medical Instrumentation

### Touch Screens

Size	Part Number
10.1"	89-F-PMC-101-002

### Modules

Size	Part Number
10.1"	89-F-PMC-101-MDL-01

### Controller

Part Number
89-B-PMC-01



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MULTI-Touch 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	Film/Film – 82% ± 3 (Typical)* Glass/Glass – 89% ± 3 (Typical)*
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### Electrical

Input Method	Finger, Gloved Hand or Stylus
Insulation Impedance	Exceeds 20 Meg Ohms, @10KV
Operational Voltage	D.C. 5V

### Mechanical

Surface Hardness	Depends Upon First Surface Substrate
Touch Activation Force	25-50g Force for Finger and Passive Stylus (Typical)

### 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)	0.7mm
Warranty	10 Years

\* Please note, these specifications are approximations. Testing is currently underway to verify exact data.

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



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