

# 89-F-PMC-101-MDL-01

## MULTI-Touch Projected Capacitive Developer Kit

Touch International's 89-F-PMC-101-MDL-01 projected capacitive developer kit is equipped with a general purpose multi-touch projected capacitive controller and touch screen mounted on a 10.1" LCD.

Designed to interface with computer systems through a wide variety of standard interfaces, the 89-B-PMC-01 projected capacitive controller is compatible with USB, I2C and Serial communications. Combined with Touch International's proprietary firmware, the controller can easily be tuned to your custom design, as well as a range of different applications. Supporting up to 10-finger touch with gesture, the 89-B-PMC-01 projected capacitive controller can help take your application to the next level.

### Features

Motion Detection Method	Capacitive Sensing
X/Y Position Reporting	Absolute Position
Touch Force	No Contact Pressure Required
HID	HID Compliant
Calibration	No Need for Calibration
Chip Set Solution	Available
Touch	Standard: 4-Fingers Optional: 10-Fingers
RoHS	Compliant
REACH	Compliant
Warranty	Touch Screen - 10 Yrs. Controller - 5 Yrs.



**89-F-PMC-101-MDL-01**

### Developer Kit Includes:

- 10.1" Touch Screen (89-F-PMC-101-002)
- 1 PSoC Controller Package (89-B-PMC-101-002)
- LCD (8700186)
- VGA Drive Kit (13B0110)
- OSD Board (1500180)
- Power Adapter (1500179)
- USB Cable (1300264)
- VGA Cable (1300277)

### Applications

- Tablet Computers
- GPS
- NET Books
- Personal Media Players
- Digital Cameras
- Gaming Consoles

## Touch Screen Specifications

Operating Temperature	-15 to 70°C
Storage Temperature	-40 to 80°C
Relative Humidity	10% - 90% RH, Non-Condensing

## Controller Specifications

Controller Size	2.19" x 2.15" (55.63mm x 51.61mm)
Power Requirements	5 ~ 9V DC Unregulated Power, Typical 42mA
Operating Temperature	-15 to 85°C
Storage Temperature	-40 to 85°C
Relative Humidity	35°C at 95% RH Non-Condensing
Interface	USB: 2.0, 1.1 Compliant (Standard) Optional: USB-UART RS-232 Serial Communication Protocol: No Parity, 8 Data Bits, 1 Stop Bit, 15200 Baud, No Flow Control I2C Communication
Communication Cables	A Plug/5-Pin Mini-B Plug (USB & USB-UART): TI# 1300264
Resolution	Standard: 1024 x 1024, Max: 4095 x 4095
Report Rate	50 - 75 Points/Sec.
Mean Time between Failures	> 5,600,000 hrs.
Supported Operating Systems	Standard: Windows 7 *Optional: Windows 2000, XP, Vista, Linux Ubuntu, Mac OSX 10.X (Leopard), Android

## LCD Specifications

LCD Screen Size	10.1" Diagonal
Aspect Ratio	16:9
Brightness	200 cd/m <sup>2</sup>
Contrast Ratio	650:1
Resolution	1024 x 600
Viewing Angle	90° Horizontal / 65° Vertical
Response Time	3ms Rise / 7ms Fall
Pixel Pitch	0.2175mm x 0.2088mm
Outline Dimension	235.0(W) mm x 143.0(H) mm x 4.9(D) mm (Typical)
Backlight	LED
Operating Temperature	0~+50°C
Storage Temperature	-20~+60°C

## LCD Drive Board Specifications

Video Input	Composite Signal Input and VGA Signal Input
Input Voltage	DC 12V+/-4V (350mA +/-30mA)
Operating Temperature	0~+40°C
Storage Temperature	-10~+60°C

\*Please Note: Additional drivers must be written to use with an optional OS.

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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