

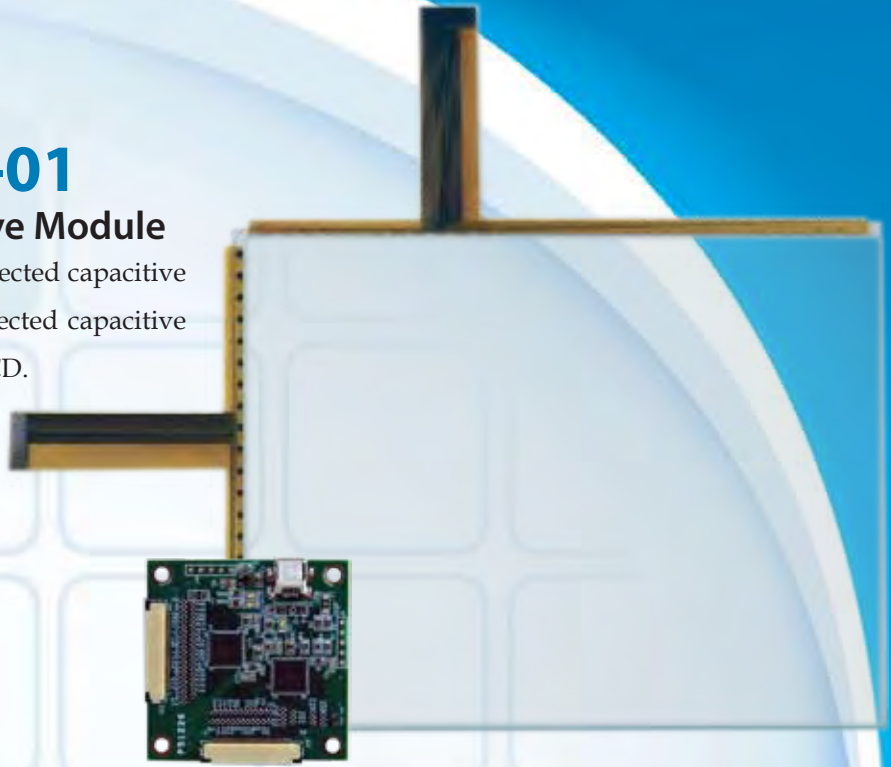
# 88-F-PMC-104-MDL-01

## Extreme Touch Projected Capacitive Module

Touch International's 88-F-PMC-104-MDL-01 projected capacitive module is equipped with a general purpose projected capacitive controller and touch screen mounted to a 10.4" LCD.

### Applications

- Gaming Consoles
- Laptop and Tablet Computers
- Retail Signature Capture
- ATM Machines
- Commercial and Industrial
- Digital Picture Frames



Designed to interface with computer systems through a wide variety of standard interfaces, the 54-B-PMC-08-01 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. Featuring single touch and gesture (two-finger touch) capabilities, the 54-B-PMC-08-01 controller can help take your product application to the next level.

### Features

<b>Motion Detection Method</b>	Capacitive Sensing
<b>X/Y Position Reporting</b>	Absolute Position
<b>Touch Force</b>	No Contact Pressure Required
<b>HID</b>	HID Compliant
<b>Calibration</b>	No Need for Calibration
<b>Chip Set Solution</b>	Available
<b>Touch</b>	Single Touch and Gesture (Two-Finger Touch)
<b>RoHS</b>	Compliant
<b>REACH</b>	Compliant
<b>Warranty</b>	Touch Screen - 10 Yrs.; Controller - 5 Yrs.



**88-F-PMC-104-MDL-01**

### Evaluation Kit Includes:

- 10.4" Projected Capacitive Touch Screen (88-F-PMC-104-004)
- 2 PSoC Controller Package (54-B-PMC-104-004)
- LCD (8700177)
- VGA Drive Kit (13B0107)
- OSD Board (1500189)
- Power Adapter (1500188)
- USB Cable (1300264)
- VGA Cable (1300277)

## Touch Screen Specifications

Operating Temperature	-20 to 85°C.
Storage Temperature	-40 to 85°C.
Relative Humidity	50°C at 90% RH Non-Condensing
Controller Mean Time Between Failures	> 100 Million Touches

## Controller Specifications

Controller Size	2.0" x 2.0" (50.80mm x 50.8mm)
Power Requirements	5 ~ 9V DC Unregulated Power, Typical 60mA
Operating Temperature	-40 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 Optional: I2C Communication
Resolution	2048 x 2048
Report Rate	Approx 25 - 50 Points/Sec.
Mean Time between Failures	> 5.6 Million Hours
Supported Operating Systems	Windows 2000, XP, Vista and 7; Linux Ubuntu; Mac OSX

## LCD Specifications

LCD Screen Size	10.4" Diagonal
Aspect Ratio	4:3
Brightness	200-250 cd/m <sup>2</sup>
Contrast Ratio	500:1
Resolution	640 x 480 or 800 x 600 (Recommended)
Viewing Angle	140° Horizontal / 110° Vertical
Response Time	5ms Rise / 15ms Fall
Pixel Pitch	0.088mm x 0.264mm
Outline Dimension	228.4(W) mm x 175.4(H) mm x 5.9(D) mm (Typical)
Backlight	LED
Operating Temperature	-20~+70°C
Storage Temperature	-30~+80°C

## LCD Drive Board Specifications

Video Input	Composite Signal Input and VGA Signal Input
Input Voltage	DC 12V+/-4V (350mA +/-30mA)
Operating Temperature	-10~+50°C
Storage Temperature	-20~+70°C

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