

88-F-PMC-121-MDL-01

Extreme Touch Projected Capacitive Developer Kit

Touch International's 88-F-PMC-121-MDL-01 projected capacitive developer kit is equipped with a general purpose projected capacitive controller and touch screen mounted to a 12.1" LCD.

Designed to interface with computer systems through a wide variety of standard interfaces, the 54-B-PMC-11-01 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-11-01 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	Single Touch and Gesture (Two-Finger Touch)
RoHS	Compliant
REACH	Compliant
Warranty	Touch Screen - 10 Yrs. Controller - 5 Yrs.



Developer Kit Includes:

- **12.1" Touch Screen**
(88-F-PMC-121-008)
- **3 PSoC Controller Package**
(54-B-PMC-121-008)
- **LCD**
(8700175)
- **VGA Drive Kit**
(13B0105)
- **OSD Board**
(1500180)
- **Power Adapter**
(1500179)
- **USB Cable**
(1300264)
- **VGA Cable**
(1300277)

Applications

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

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	2.5" x 2.347" (63.50mm x 59.614mm)
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
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	12.1" Diagonal
Aspect Ratio	4:3
Brightness	180 cd/m ²
Contrast Ratio	450:1
Resolution	640 x 480, 800 x 600, 1024 x 768 (Recommended)
Viewing Angle	160° Horizontal / 160° Vertical
Response Time	Total (Tr +Td) 40ms
Pixel Pitch	0.240(H) mm x 0.240(V) mm
Outline Dimension	270.0(H) mm X 199.0(V) mm X 4.8(D) mm (Typical)
Backlight	1CCFL
Operating Temperature	0~+50°C
Storage Temperature	-20~+60°C

LCD Drive Board Specifications

Video Input	VGA Signal Input
Input Voltage	DC 12V, 3.3 A
Operating Temperature	0~+40°C
Storage Temperature	-10~+60°C

For additional information on Touch International products and solutions, contact a sales representative or e-mail sales@touchintl.com.