

88-F-PMC-84-MDL-01

Extreme Touch Projected Capacitive Developer Kit

Touch International's 88-F-PMC-84-MDL-01 projected capacitive developer kit is equipped with a general purpose projected capacitive controller and touch screen mounted on a 8.4" LCD.

Designed to interface with computer systems through a wide variety of standard interfaces, the 54-B-PMC-2007-01 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-2007-01 controller can help take your application to the next level.

Features

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|--------------------------------|--|
| 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:

- **8.4" Touch Screen**
(88-F-PMC-84-003)
- **1 PSoC Controller Package**
(54-B-PMC-84-003)
- **LCD**
(8700176)
- **VGA Drive Kit**
(13B0106)
- **OSD Board**
(1500189)
- **Power Adapter**
(1500188)
- **USB Cable**
(1300264)
- **VGA Cable**
(1300277)

Applications

- **Laptop and Tablet Computers**
- **Retail Signature Capture**
- **Personal Media Players**
- **Commercial and Industrial**
- **Gaming Consoles**
- **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 | 1.9965" x 3.2895" (50.70mm x 83.78mm) |
| Power Requirements | 5 ~ 9V DC Unregulated Power, Typical 42mA |
| 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

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|----------------------|---|
| Communication Cables | A Plug/5-Pin Mini-B Plug (USB & USB-UART) Optional: RS-232 Serial Communication 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

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|-----------------------|--|
| LCD Screen Size | 8.4" Diagonal |
| Aspect Ratio | 4:3 |
| Brightness | 200-250 cd/m ² |
| Contrast Ratio | 500:1 |
| Resolution | 800 x 600 (Recommended) |
| Viewing Angle | 130° Horizontal / 115° Vertical |
| Response Time | 10ms Rise / 15ms Fall |
| Pixel Pitch | 0.071mm x 0.213mm |
| Outline Dimension | 189.75(W) mm x 149.4(H) mm x 6.3(D) mm (Typical) |
| Backlight | LED |
| Operating Temperature | -10~+60°C |
| Storage Temperature | -20~+70°C |

LCD Drive Board Specifications

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|-----------------------|---|
| 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.