



# 48-F-MAR-104-MDL-01

## Multi-Touch Analog Resistive Module

Touch International's 48-F-MARS-104-MDL-01 multi-touch analog resistive module is equipped with a resistive controller and touch screen mounted to a 10.4" LCD.

### Applications

- Aerospace
- Kiosk/POS
- Medical
- Military
- Gaming Consoles

Designed to interface with a variety of computer systems, the 48-B-MARS-01 resistive controller can be easily customized for a range of different applications. Featuring multi-touch (10-Finger) with true touch gesture and palm rejection capabilities, the 48-B-MARS-01 controller can help take your product application to the next level.

The 48-F-MARS-104-001 resistive sensor is divided into zones; ex: 16 (4x4), 30 (5x6), 70 zones (7x10), etc. The maximum number of zones per sensor is 70 and is customized based on customer's needs.

### Features

<b>X/Y Position Reporting</b>	Absolute Position
<b>HID</b>	HID Compliant
<b>Touch</b>	Multi-Touch (10-Fingers), Gesture
<b>Input</b>	Finger, Gloved, Stylus
<b>Warranty</b>	Touch Screen - 2 Yrs.; Controller - 2 Yrs.



**48-F-MARS-104-MDL-01**

### Evaluation Kit Includes:

- 10.4" Resistive Screen (48-F-MARS-104-001)
- 1 PSoC Controller Package (48-B-MARS-01)
- LCD (8700177)
- OSD Board (1500189)
- Power Adapter (1500188)
- Serial Cable (1300235)
- USB Cable (1300264)

## Environmental Touch Screen & Controller Specifications

Operating Temperature	-20 to 70°C
Storage Temperature	-40 to 80°C
Relative Humidity	-40 to 60°C at 95% RH Non-Condensing

## Controller Specifications

Controller Size	2.362" x 1.2" (60mm x 30mm)
Power Requirements	4.75 ~ 5.25V DC Unregulated Power, Typical 42mA
Interface	USB: 2.0, 1.1 Compliant (Standard) RS-232 Serial Communication
Communication Cables	RS232C Interface Cable (TI # 1300235) & USB Interface Cable (TI # 1300212)
Resolution	1024 x 1024
Report Rate	Approx 13ms for 1 point detection or 38ms for 2 point detection
Supported Operating Systems	Windows 7, Vista and XP

## 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).