48-F-MARS-104-MDL-01-D
Multi-Touch Analog Resistive Module

Touch International's 48-F-MARS-104-MDL-01-D 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-D 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-D controller can help take your product application to the next level.

The 48-F-MARS-104-001-D 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

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

Evaluation Kit Includes:

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

48-F-MARS-104-MDL-01-D

Touch International an enhanced user interface company

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/m2
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 × 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.