

# OMI5121A-CE



Maple Systems OMI5121A-CE Open HMI features a beautiful 12.1" 1024 x 768 XVGA high resolution TFT screen. A robust HMI system at a very affordable price!

## 12.1" Industrial Grade Open HMI

- 16.2 million color TFT display
- Aluminum enclosure
- Analog Resistive Touchscreen
- 1024 x 768 Resolution
- 32 Bit RISC CPU, 800MHz
- Fanless cooling system
- 256MB Flash Memory, 256MB RAM
- Built-in Ethernet
- 2 Serial ports and 1 USB Host
- Microsoft Windows® Embedded CE 6.0
- Isolated power supply
- Two year warranty

The OMI5121A-CE is an open machine interface with a high resolution 12.1" touchscreen TFT display, running on Windows® CE. The nominal 1.82" depth with port access along the bottom makes mounting in tight spots easy.

These touchscreen displays offer a host of hardware features not typically available in this price range. Having an 800MHz processor and 256MB of DRAM ensures quick response times.

The Windows® CE 6.0 Professional operating system includes the following:

- Internet Explorer web browser
- Windows Media Player
- Word viewer
- PDF viewer
- Support for VBScript, MessageBox and RDP

Applications can be stored on the 256MB of built-in flash memory.



Maple's Open HMIs are the perfect solution for OEMs who need a low-cost, fanless, and open-platform HMI to run custom applications.

Create your own custom application or use off-the-shelf programs such as WebStudio™ SCADA software.

For applications that require a powerful yet inexpensive open HMI that will place your system well above the competition, go with Maple Systems.

**Every Machine  
Needs the  
Human Touch**



[www.maplesystems.com](http://www.maplesystems.com)

# OMI5121A-CE Specifications

## Hardware

CPU Type	32-Bit RISC CPU, 800MHz
Memory	256MB Flash, 256MB DRAM
SD Card Slot	SD/SDHC
Ethernet Ports	10/100 Base-T (RJ45)
Serial Ports	Com1: RS-232/RS-485, 2 or 4 wire Com3: RS-232/RS-485, 2 wire
USB Ports	1 Host, 1 Client - USB 2.0
Audio	1x Audio Line Out, 3.5mm jack
RTC	Built-In

## Display

Type	12.1" TFT
Size (WxH)	9.75 x 7.25 inches [248 x 184 mm] 12.1" diagonal
Resolution (pixels)	1024 x 768
Brightness (cd/m <sup>2</sup> )	500
Contrast Ratio	700:1
Max Colors	16.2 million
Viewing Angle (°)	95/95/120/120 (T,B,R,L)
Backlight	LED
Backlight Longevity	50,000 hr.

## Electrical

Power Requirements	24VDC, 850mA nominal
Power Isolation	Built-In
Voltage Resistance	500VAC (1 min)
Isolation Resistance	Exceed 50M Ω at 500VDC

Specifications subject to change without notice.

## Touchscreen

Type	4-wire analog resistive
Accuracy	Active area Length (X) ±2%, Width (Y) ±2%
Light Transmission	Above 80%
Lifespan	1 million activations minimum

## Environmental

Operating Temperature	32 ~ 122°F (0 ~ 50°C)
Storage Temperature	-4° ~ 158°F (-20 ~ 70°C)
Relative Humidity	10% ~ 90% (non-condensing)
Shock (operation)	10 to 25Hz (X,Y,Z direction, 2G, 30 minutes)
Ratings	NEMA 4, IP66 compliant front panel
Certifications	CE, FCC Class A, cULus, RoHS

## Mechanical

Enclosure	Aluminum
Dimensions (WxHxD)	12.5 x 9.6 x 1.8 inches [317 x 244 x 46mm]
Panel Cutout Dim. (WxH)	12.0 x 9.1 inches [305 x 231mm]
Weight	4.6 lbs [2.1kg]
Mounting	Panel mount or VESA 75 compatible
Warranty	2 years

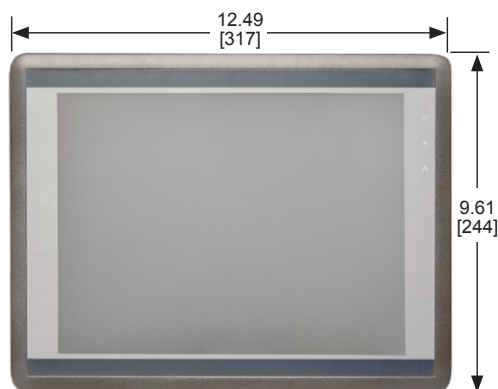
## Software

Operating System	Microsoft Windows CE 6.0 Professional
HMI/SCADA Application	InduSoft® WebStudio™ (optional)

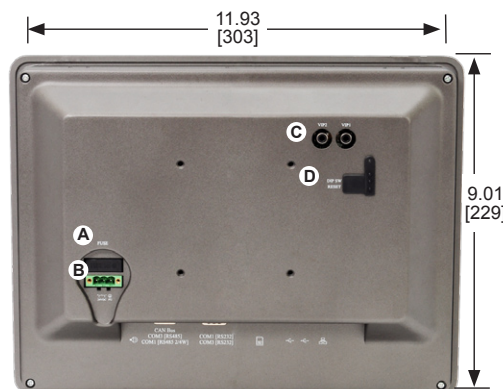
## Order Number

OMI5121A-CE	12.1" Aluminum Open HMI
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## Dimensions



Front View



Rear View



Bottom View

Dimensions in inches [mm]

- A Fuse
- B Power Connector
- C N/A
- D DIP Switch & Reset Button
- E Line Out
- F Com1, Com3 RS485
- G Com1, Com3 RS232
- H SD Card Slot
- I USB Client port
- J USB Host port
- K Ethernet Port 10/100

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