



MMI8121X

12.1" Color Graphic Display Panel and Touch Screen

Introduction

The MMI8121X is a compact HMI platform. This new and improved "X" design offers a faster processor, more memory and a brighter display than the standard MMI8121. Its 32-bit RISC kernel delivers impressive performance at low power. A hardware graphics acceleration engine gives superior 65K color graphics performance. This leaves more time for Data management.

The MMI8121X has features for Data logging and Compact Flash Card or USB Stick type memory storage. Data information can also be accessed by SCADA/HMI software running on remote PC's via Ethernet. MMI to MMI communications are easily done through Ethernet. With its many features the MMI8121X is the sensible choice for present and future Operator Interface applications.

- Bright 12.1" TFT LCD 65536 Color Display
- NEMA4/IP65 Compliant Front Panel
- Built-in Flash Memory
- One Compactflash™ Slot
- 3 USB Ports
- Ethernet Modbus TCP/IP; Ethernet I/P
- 3 RS232 and 2 RS485 ports
- Supports Multiple PLC Types to one MMI
- Data Logging to USB, CF Card
- 6 Levels of User Security for up to 12 Users
- True Type Font Capability
- Alarm and Alarm History (Events) Tracking
- Real time and Historical Trending
- Multiple Language Support (up to 7 languages)
- Simple scripting for Advanced Users (Macro)
- Free Design Mode, Windows™ Based Setup Software Included



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Integration Guide

Supported Peripherals



MMI8121X 12.1" Color Graphic Display Panel and Touch Screen

| Hardware Specifications | |
|-------------------------|--|
| Display | 12.1" TFT |
| Brightness | 400 cd/m ² |
| Color | 65536 color |
| Contrast Ratio | 500:1 |
| Resolution(WxH) | 800x600 |
| Back Light | CCFLx2 |
| Touch Panel | 4 wires resistive type |
| Touch Accuracy | 2mm |
| Surface Hardness | 4H |
| Serial Interface | COM1(RS232/RS485 2w/4w) COM2(RS232) COM3(RS232/RS485 2w) |
| Processor | 32 bit CISC CPU 500 MHz |
| Ethernet Port | 10/100 Base-T |
| I/O Ports | PS/2 Port Connector |
| USB Interface | USB 2.0 x 3, Mini USB Port x 1 |
| Sound Output | Line Out x1 / MIC x 1 |
| DRAM | 256MB DDR 400MHz |
| IDE Interface | 44-pin IDE interface |
| RTC | Built-in |

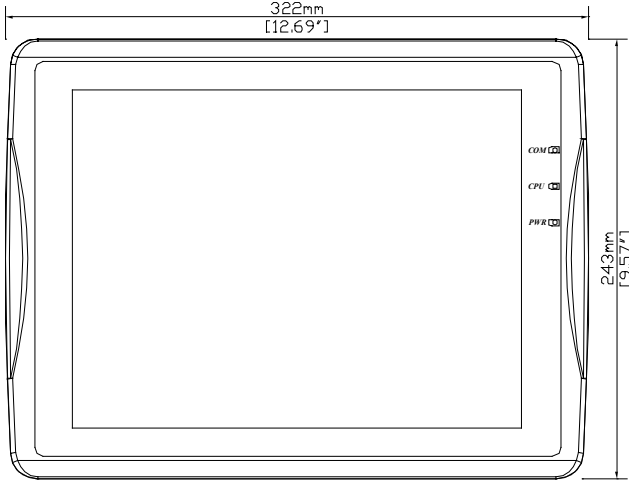
| General Specifications | |
|------------------------|--|
| Input Power | 24 ±5% VDC |
| Power Consumption | 800 mA@24VDC |
| Isolated Power Supply | Output Power 1.25A Max, 24VDC +/-1% |
| CE | Complies with EN50081-2 and EN50082-2 standards |
| FCC | Complies with FCC Class A |
| Voltage resistance | 500VAC (1 min.) |
| Isolation resistance | Exceed 50Mat 500VDC |
| Vibration endurance | 10 to 25 Hz (X,Y,Z direction 2G 30minutes) |
| Protection structure | IP65 front panel (O ring seal) |
| Operating Temperature | 0~45~∞C |
| Operation humidity | 10-90% RH (non-condense) |
| Enclosure | Plastic |
| Dimensions WxHxD | 322 x 243 x 51mm |
| Panel cutout dimension | 305 x 231 mm |
| Weight | Approx. 2.1 kg |

| EasyBuilder Software Specification | |
|------------------------------------|--|
| Screen editor | EasyBuilder Ver. EB8000 1.0.1 or later (requires Windows 2000, XP) |
| No. of window | Up to 1989 Windows |
| No. of object | Up to 500 per window, limited by memory |
| Text strings | limited only by memory |
| Graphics | Supports BMP, GIF and JPG |
| PLC Support | Most popular PLC's |
| Macro Scripts | Easy to use macro scripting language |
| System Requirements | Computer requirements include at least a Pentium 90Mhz PC, 16MB RAM, 10MB available hard disk space, minimum 800x600 resolution VGA, and one available RS-232 serial port. |
| EB8000 Setup and Features | <p>EasyBuilder has a complete set of drawing tools as well as the ability to import and place bitmaps. Summary of EasyBuilder Objects</p> <p>Bit Lamp – Place an indicator that is bit triggered</p> <p>Word Lamp – Place an indicator that is word triggered</p> <p>Set Bit – Set a bit on a button press, button hold, window change, backlight activation or data entry.</p> <p>Set Word – Set a word on a button press, button hold, window change, backlight activation or data entry.</p> <p>Toggle Switch – Toggle a bit</p> <p>MultiState Switch – Increment/Decrement a word</p> <p>Slider – Change word value by dragging cursor</p> <p>Function Button – Perform a system operation</p> <p>Numeric Input / Display – Change/Display digital data</p> <p>ASCII Input / Display – Change/Display alphanumeric data</p> <p>X,Y Move Animation – Move an object via pixel coordinates</p> <p>Spot Move Animation – Move an object on a predefined path</p> <p>Direct Window – Popup Window on Bit status change</p> <p>Indirect Window – Popup Window depending on Word's value</p> <p>Bargraph – Display data as changing rectangle</p> <p>Alarm Display – display predefined text strings in response to bit changes</p> <p>Trend Graph – Plots active data on a trend</p> <p>Data History Display – Show contents of Data Logger</p> <p>Meter – Display one of 4 different types of meters</p> <p>Scrolling Alarm – display predefined text strings in response to bit changes</p> <p>Event Display – display and log predefined text strings in response to bit or word changes</p> <p>Data Logging – Move PLC data to USB or CF Card memory</p> <p>PLC Controls: Change window, Backlight control, Macro Execution, Data Transfer</p> |

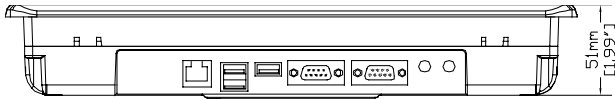
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Installation Guide

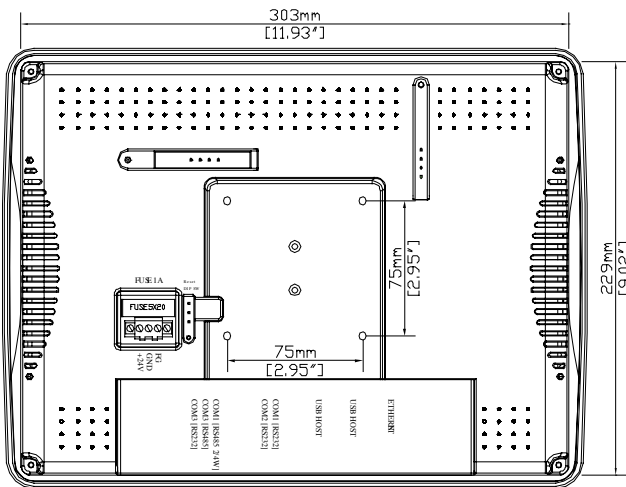
Dimensions are in mm (inches)



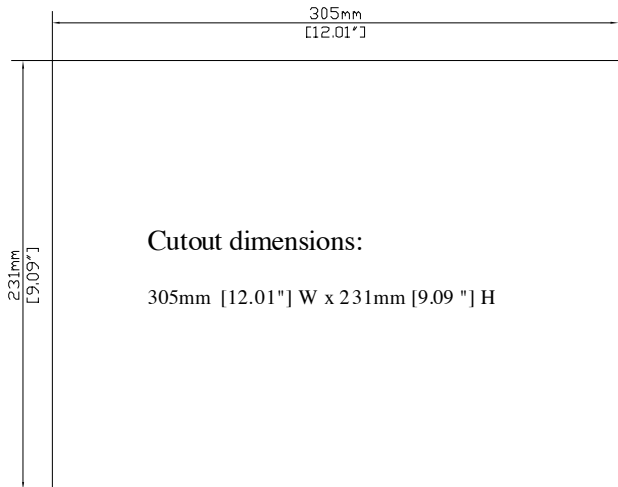
Front View



Bottom View



Rear View



Cutout dimensions:

305mm [12.01"] W x 231mm [9.09"] H

Panel Cutout



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Ordering Information

| Part Number | Description |
|-------------|---|
| MMI8121X | Graphic Interface with 12.1" Color LCD display and Touchscreen. Setup software and Ethernet Crossover cable for programming included |