MMI6100

10" TFT LCD Widescreen
800 x 480 Pixel Resolution
32-Bit RISC CPU 400 MHz

- **Bright 10" TFT 65,536 (16-Bit) Color Display**
- **800 x 480 Pixel Resolution**
- **NEMA4/IP65 Compliant Front Panel**
- **2 USB Ports**
- **3 RS232 and 2 RS485 ports**
- **SD Card Slot**
- **Supports Multiple PLC Types to one MMI**
- **Data Logging to USB, SD Card**
- **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**

Introduction

The MMI6100 is a compact HMI platform. It offers a fast 400 MHz, 32-Bit RISC CPU, expanded memory and a bright, wide screen 10" display with high resolution. The MMI6100 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 MMI6100 has features for Data logging and SD Card or USB Stick type memory storage. With its many features the MMI6100 is the sensible choice for present and future Operator Interface applications.

Integration Guide

Supported Peripherals

SD Card
Provides standard SD card slot

USB Barcode Device
Supports USB barcode device

USB Printer
Connect a USB printer for data printing

USB Mouse
Supports USB mouse

USB Keyboard
Supports USB keyboard

RS232/RS485 2w/4w Port
Connect with multiple PLCs and controllers simultaneously

USB Memory Stick
Supports USB memory stick

Hardware Specifications

Display	10" TFT Widescreen
Resolution	800 x 480
Viewing Angle (°)	45/65/65/65(T/B/R/L)
Brightness	350 cd/m²
Color	65,536 colors
Contrast Ratio	300:1
Back light	LED
Back light life time	30,000 hr. min.
Touch panel	4 wire, analog resistive
Touch Accuracy	Active Area Length(X) ±2%, Width(Y) ±2%
Surface Hardness	4H
Ethernet port	None
I/O port	COM1 (RS-232/RS-485 2W/4W) COM2(RS232) COM3(RS-232/RS-4852W)
USB	1 USB Host port; 1 USB Client port
CPU & Core Logic	32-Bit RISC 400MHz processor
Storage	128MB flash memory on board
DRAM	64MB DDR2 on board
SD card slot	Supports SDHC/SD, MT8000 doesn't support Plug & Play
RTC	Built-in

General Specifications

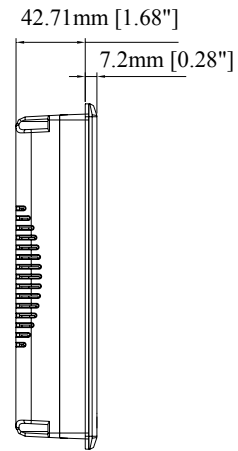|	
Input Power	24 ±10% VDC (21.6~26.4VDC) (Power Isolator Inside)
Power Consumption	300mA @ 24VDC
CE	Complies with EN50081-2 and EN50082-2 standards
FCC	Complies with FCC Class A
Voltage resistance	500VAC (1 min.)
Isolation resistance	Exceed 50M at 500VDC
Vibration endurance	10 to 25 Hz (X,Y,Z direction 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	271 x 212 x 50 mm
Panel cutout dimension	259 x 201 mm
Weight	Approx. 1.4 kg
Operating System	EB8000 V2.0.0 or Newer

EasyBuilder Software Specification

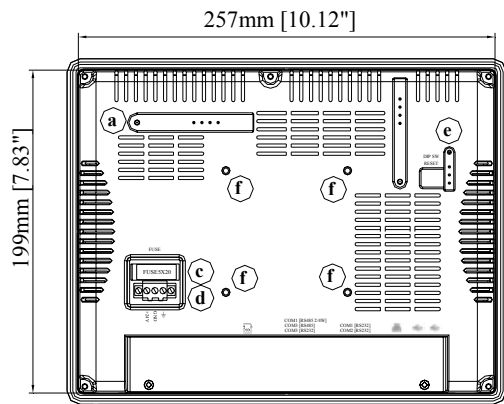|	
Screen editor	**EasyBuilder Ver. EB8000 2.0.0 or later** (requires Windows XP or later)
No. of window	Up to 1989 Windows
No. of object	Up to 500 per window, limited by memory
Text strings	limited only by memory
Graphics	Supports BMP, GIF and JPG
PLC Support	Most popular PLC's
Macro Scripts	Easy to 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	EasyBuilder has a complete set of drawing tools as well as the ability to import and place bitmaps. Summary of EasyBuilder Objects **Bit Lamp** – Place an indicator that is bit triggered **Word Lamp** – Place an indicator that is word triggered **Set Bit** – Set a bit on a button press, button hold, window change, backlight activation or data entry. **Set Word** – Set a word on a button press, button hold, window change, backlight activation or data entry. **Toggle Switch** – Toggle a bit **MultiState Switch** – Increment/Decrement a word **Slider** – Change word value by dragging cursor **Function Button** – Perform a system operation **Numeric Input / Display** – Change/Display digital data **ASCII Input / Display** – Change/Display alphanumeric data **X,Y Move Animation** – Move an object via pixel coordinates **Spot Move Animation** – Move an object on a predefined path **Direct Window** – Popup Window on Bit status change **Indirect Window** – Popup Window depending on Word's value **Bargraph** – Display data as changing rectangle **Alarm Display** – display predefined text strings in response to bit changes **Trend Graph** – Plots active data on a trend **Data History Display** – Show contents of Data Logger **Meter** – Display one of 4 different types of meters **Scrolling Alarm** – display predefined text strings in response to bit changes **Event Display** – display and log predefined text strings in response to bit or word changes **Data Logging** – Move PLC data to USB or CF Card memory **PLC Controls:** Change window, Backlight control, Macro Execution, Data Transfer

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Installation Guide

Dimensions are in mm (inches)

42.71mm [1.68"]

7.2mm [0.28"]

270.97mm [10.67"]

212.97mm [8.38"]

Front View

Side View

257mm [10.12"]

199mm [7.83"]

a

e

f   f

c   f   f

d

Rear View

259mm [10.20"]

201mm [7.91"]

R2mm [R0.08"]

Cutout dimensions:
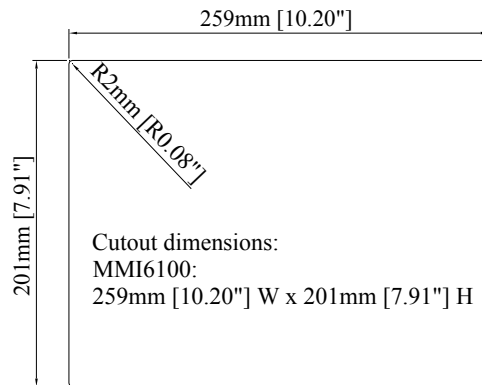MMI6100:
259mm [10.20"] W x 201mm [7.91"] H

49.78mm [1.96"]

h   j   i   b   g
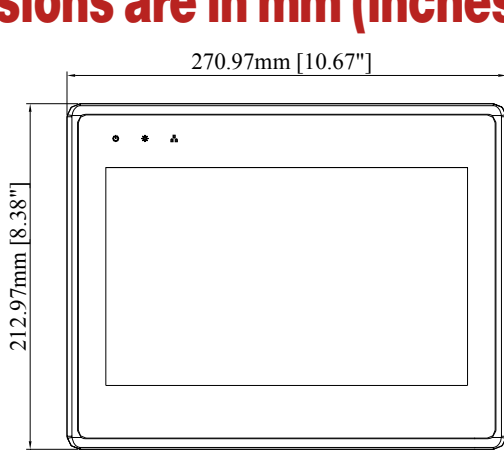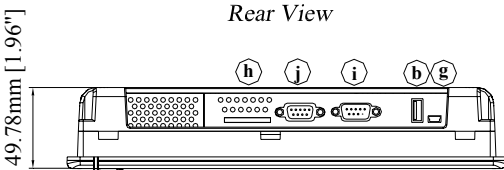
Bottom View

1. The "b" USB Host port can be connected alternatively from the USB port on the front panel.

a	N/A	f	VESA 75mm screw holes
b.	USB Host port *[1]	g	USB Device port
c.	Fuse	h	SD card slot
d.	Power connector	I	Com1 RS232, Com2 RS232
e	DIP SW & Reset button	j	Com1 RS485, Com3 RS485, Com3 RS232

Ordering Information

Part Number	Description
MMI6100	Graphic Interface with 10" Widescreen Color LCD display and Touchscreen. Project development software and programming cable included.