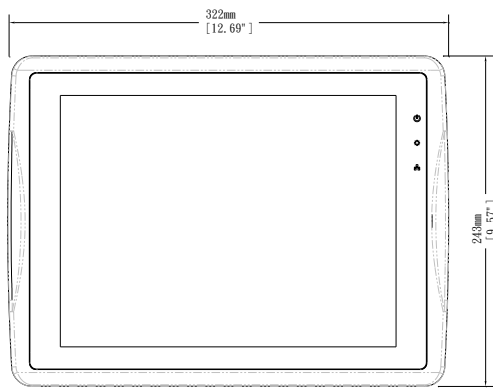




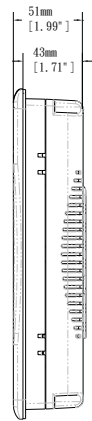
### Feature

- 12.1" 1024x768 TFT LCD, LED Backlight
- Fan-less Cooling System
- Built-in 128MB Flash Memory
- SD Card Slot for Extension of Storage
- One USB Host Port and one USB Client Port
- Com1 and Com3 RS-485 Built-in Isolation
- Com1 and Com3 RS-485 2W support MPI 187.5K, please use one at one time
- Built-in Power Isolation
- NEMA4/IP65 Compliant Front Panel

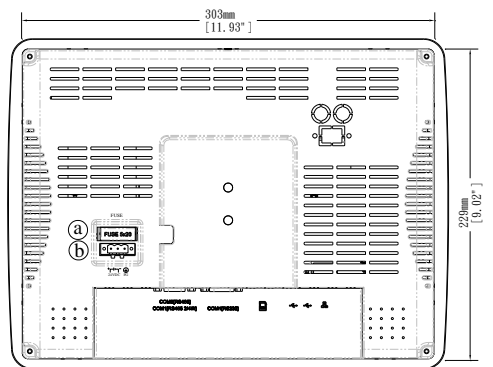
<b>Display</b>	Display	12.1" TFT
	Resolution (WxH dots)	1024 x 768
	Brightness (cd/m <sup>2</sup> )	500
	Contrast Ratio	700:1
	Backlight Type	LED
	Backlight Life Time	>30,000 hrs.
	Colors	16.2M
<b>Touch Panel</b>	Type	4-wire Resistive Type
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%
<b>Memory</b>	Flash	128 MB
	RAM	256 MB
<b>Processor</b>		32 bits RISC Cortex-A8 600MHz
<b>I/O Port</b>	SD Card	SD/SDHC
	USB Host	USB 2.0 x 1
	USB Client	USB 2.0 x 1
	Ethernet	1 RJ45 port (10/100 Base-T)
	COM Port	Com1:RS-232/RS-485 2W/4W, Com3:RS-485 2W
	RS-485 Dual Isolation	N/A
<b>RTC</b>		Built-in
<b>Power</b>	Input Power	24±20%VDC
	Power Isolation	Built-in
	Power Consumption	800mA@24VDC
	Voltage Resistance	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC
	Vibration Endurance	10 to 25Hz(X,Y,Z direction 2G 30 minutes)
<b>Specification</b>	PCB Coating	Yes
	Enclosure	Plastic
	Dimensions WxHxD	322 x 243 x 51mm
	Panel Cutout	305 x 231 mm
	Weight	Approx.2.1 kg
<b>Environment</b>	Protection Structure	IP65
	Storage Temperature	-20°~60°C (-4° ~ 140°F)
	Operating Temperature	0° ~ 50°C (32° ~ 122°F)
	Relative Humidity	10% ~ 90% (non-condensing)
<b>Certificate</b>	CE	CE marked
<b>Software</b>		EasyBuilder Pro V4.00.01 or later versions



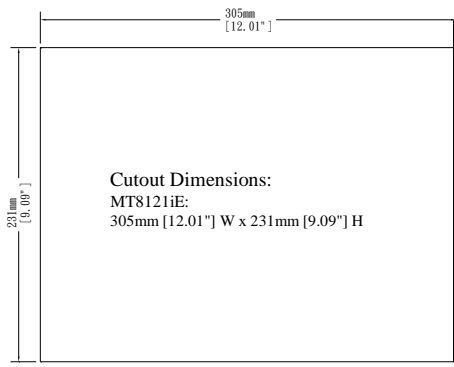
Front View



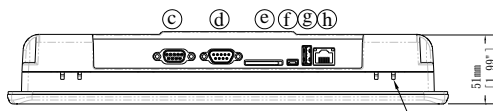
Side View



Rear View



**Cutout Dimensions:**  
 MT8121iE:  
 305mm [12.01"] W x 231mm [9.09"] H



Bottom View

Panel-mounting clamp slots, 9 places

<b>a</b>	Fuse
<b>b</b>	Power Connector
<b>c</b>	Com1: RS-485 2W/4W, Com3:RS-485 2W
<b>d</b>	COM1:RS-232
<b>e</b>	SD Card Slot
<b>f</b>	USB Client
<b>g</b>	USB Host
<b>h</b>	Ethernet Port

## Ordering Information

**□ MT8121iE1:**  
 12.1" 1024x768 TFT LCD HMI, Built-in 128MB flash memory / 256MB DDR2 RAM

### Pin Assignment: COM1 [RS232] 9 Pin, Male, D-sub

PIN#	Symbol	COM1 [RS232]
1	Not used	
2	RxD	Received Data
3	TxD	Transmitted Data
4	Not used	
5	GND	Ground
6	Not used	
7	RTS	Ready to send output
8	CTS	Clear to send input
9	Not used	

### COM1 / COM3 [RS485] 9 Pin, Female, D-sub

PIN#	Symbol	Com1 [RS485]2w	Com1 [RS485]4w	Com3 [RS485]2w
1	Rx-	Data-	Rx-	
2	Rx+	Data+	Rx+	
3	Tx-		Tx-	
4	Tx+		Tx+	
5	GND	Ground		
6	Not used			
7	Data-			Data-
8	Data+			Data+
9	GND			Ground