WEINTEK

MT8121XE3

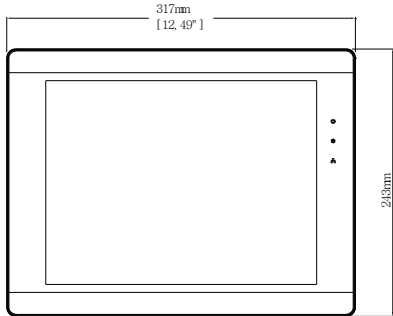## HMI with 12.1" WVA Display

Features

- 12.1" 1024 x 768 Wide Viewing Angle LCD, LED Backlight
- Slim Design
- Fan-less Cooling System
- Built-in 256 MB Flash Memory
- SD Card Slot for Expansion 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 a time*
- Built-in Power Isolator

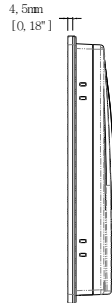|		
Display	Display	12.1" Wide Viewing Angle (WVA)
	Resolution	1024 x 768
	Brightness (cd/m^2)	500
	Contrast Ratio	1000:1
	Backlight Type	LED
	Backlight Life Time	>30,000 hrs.
	Colors	16.7M
	LCD Viewing Angle (T/B/L/R)	89/89/89/89
	Pixel Pitch (mm)	0.240 (H) x 0.240 (V)
Touch Panel	Type	4-wire Resistive Type
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%
Memory	Flash	256 MB
	RAM	256 MB
Processor		32-bit RISC 1GHz
I/O Port	SD Card Slot	SD/SDHC
	USB Host	USB 2.0 x 1
	USB Client	USB 2.0 x 1
	Ethernet	10/100 Base-T x 1
	COM Port	COM1: RS-232/RS-485 2W/4W, COM3: RS-485 2W
	RS-485 Dual Isolation	Yes
	CAN Bus	N/A
	HDMI	N/A
	Audio Output	N/A (Supports USB Audio)
RTC		Built-in
Power	Input Power	24±20%VDC
	Power Isolation	Built-in
	Power Consumption	1.5A@24VDC
	Voltage Resistance	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ at 500VDC
Specification	PCB Coating	Yes
	Enclosure	Plastic
	Dimensions WxHxD	317 x 243 x 41 mm
	Panel Cutout	305 x 231 mm
	Weight	Approx. 1.7 kg
	Mount	Panel mount, VESA mount 75 x 75 mm
Environment	Protection Structure	NEMA4 / IP65 Compliant Front Panel
	Storage Temperature	-20° ~ 60°C (-4° ~ 140°F)
	Operating Temperature	0° ~ 50°C (32° ~ 122°F)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Certificate	CE	CE marked
Software	EasyBuilder Pro	V4.00.01 or later versions
	Weincloud	EasyAccess 2.0 (Optional)

*For products with serial number 2211****** or later, the minimum software requirement for MPI: EasyBuilder Pro V6.07.01.
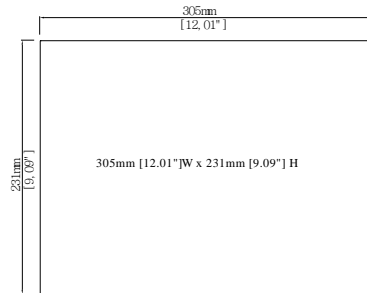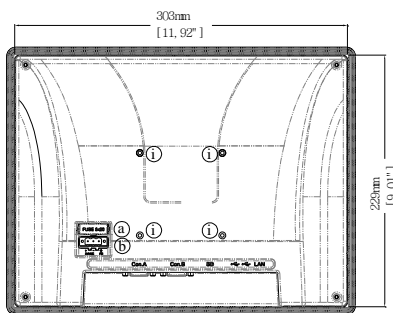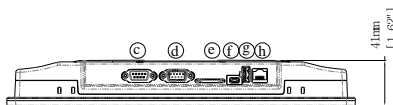
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Top View

317mm
[12, 49"]

4, 5mm
[0, 18"]

305mm
[12, 01"]

243mm
[9, 57"]

231mm
[9, 09"]

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

Front View

Side View

Cutout Dimensions

303mm
[11, 92"]

228mm
[9, 01"]

Rear View

41mm
[1, 62"]

Bottom View

a	Fuse
b	Power Connector
c	COM1 RS-485 2W/4W, COM3 RS-485 2W (Con.A)
d	COM1 RS-232 4W (Con.B)
e	SD Card Slot
f	USB Client Port
g	USB Host Port
h	Ethernet Port
i	VESA 75 mm Screw Holes

Ordering Information

❑ **MT8121XE3:**
   12.1" 1024 x 768 WVA LCD HMI, Built-in 256 MB flash memory / 256 MB DDR2 RAM

❑ **RP0081210 (included in package)**
   12.1" Screen Protective Film

Optional:
❑ **RZACEA020:** EasyAccess 2.0 Activation Card

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

PIN#	COM1 [RS232] 4W
1	
2	RxD
3	TxD
4	
5	GND
6	
7	RTS
8	CTS
9	

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

PIN#	COM1 [RS485] 2W	COM1 [RS485] 4W	COM3 [RS485] 2W
1	Data-	Rx-	
2	Data+	Rx+	
3		Tx-	
4		Tx+	
5	GND(COM1)		
6			
7			Data-
8			Data+
9			GND(COM3)