

# MT8121T



## • • Features

- 12.1" SVGA TFT LCD
- Fan-less cooling system
- Built-in flash memory and RTC
- NEMA4/IP65 compliant front panel
- One CompactFlash™ slot

## Introduction

MT8000 series is the new HMI generation of Weintek. With the design concept of meeting customers' satisfaction while easy-to-Use attribute as before, a MT8000 not only performs as a Human Machine Interface but also plays as a role of data exchange center. Through the most popular Ethernet connection, data can be shared among MT8000s without limitation and any SCADA/HMI software on the PC can simply access data from MT8000s. MT8000 series is the best choice for your requirement tomorrow.

## Specifications

- **Construction:** plastic molding housing
- **Display:** 12.1" SVGA Color TFT LCD
- **CPU and core logic:** 32Bit RISC processor
- **DRAM:** 64 MB on board
- **Storage:** 32 MB flash memory on board,  
1 CompactFlash™ card slot.
- **I/O:** 3 serial ports: Com1: RS-232/RS-485 2w/4w,  
Com2: RS-232,  
Com3: RS-232/RS-485 2w  
1 Ethernet port (10/100Base-T)  
3 USB 2.0 full-speed host (12Mbps)
- **RTC:** Built-in
- **Power input:** 24 V<sub>DC</sub>, 0.5A maximum
- **Dimension (W x H x D):** 322 x 243 x 51mm
- **Weight:** Approx. 2.1kg
- **Software:** EB8000 V1.34 or later

<b>Display type</b>	<b>TFT LCD</b>
<b>Display size (diagonal)</b>	12.1"
<b>Max colors</b>	65536
<b>Resolution</b>	800 x 600
<b>Pixel pitch (HxV, mm)</b>	0.3075 x 0.3075
<b>Viewing angle (°)</b>	95 (Upper+Lower), 120 (Left+Right)
<b>Luminance (cd/m<sup>2</sup>)</b>	400
<b>Backlight</b>	CCFL x 2
<b>Backlight life time</b>	50,000 hrs.
<b>Contrast ratio</b>	500:1

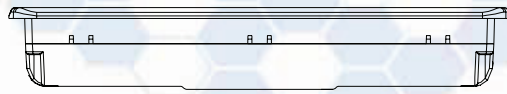
## Touchscreen

- **Type:** 4-wire, analog resistive
- **Resolution:** continuous
- **Light transmission:** above 80%
- **Life:** 1 million activation minimum

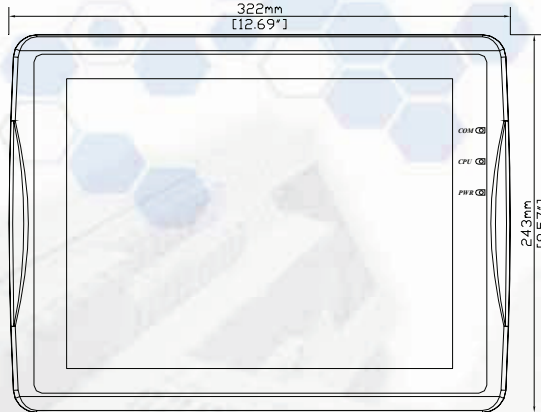
## • • Environmental Specifications

- **Operating temperature:** 0° ~ 45°C (32° ~ 113°F)
- **Relative humidity:** 10% ~ 90% @ 40°C, non-condensing
- **Shock (operation):** 10 to 25Hz(X,Y,Z direction 2G 30minutes)
- **EMI:** Complies with FCC class A
- **CE:** Complies with EN50081-2 and EN50082-2 standards
- **Front panel meets NEMA4 / IP65**

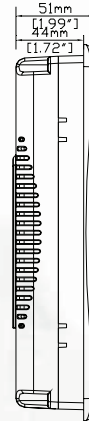
**Dimensions Drawing**



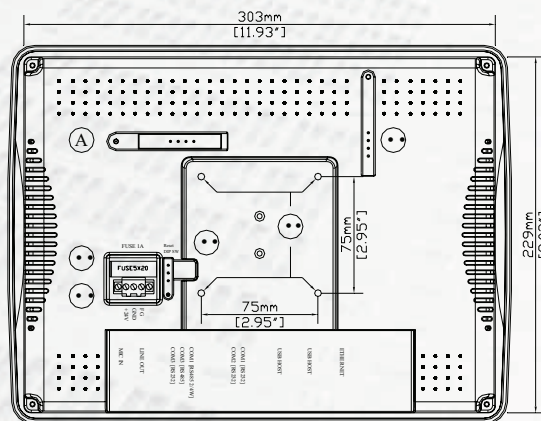
Top View



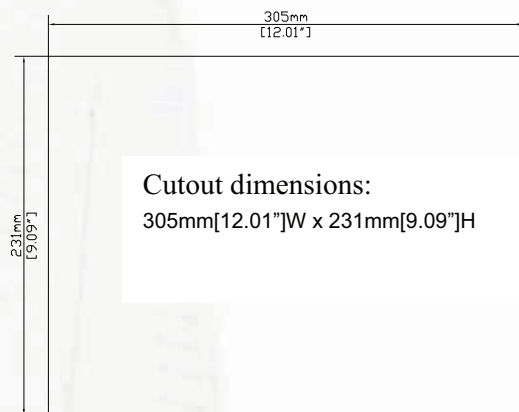
Front View



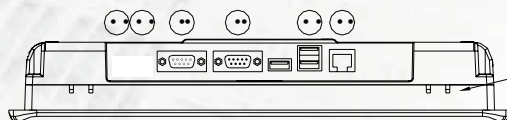
Side View



Rear View



Cutout dimensions:  
305mm[12.01"]W x 231mm[9.09"]H



Bottom View

A	N/A	G	N/A
B	Compact Flash™ slot	H	N/A
C	Fuse	I	Com1 RS485, Com3 RS485, Com2 RS232
D	Power connector	J	Com1 RS232, Com2 RS232
E	DIP SW and Reset button	K	USB Host x 3
F	VESA 75mm screw holes	L	Ethernet port 10/100 Base-T

**Ordering Information**

- MT8121T:**  
 12.1" TFT LCD HMI, 32MB flash memory/64MB DRAM on board.