

# MT8100i

## Human Machine Interface with 10" TFT LCD display



### **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.

The MT8100i is equipped with a USB 1.1 host, a USB 2.0 high speed device and SD card slot.

### **Specifications**

- **Construction:** plastic molding housing
- **Display:** 10" 65,536 color TFT LCD
- **CPU and core logic:** 32Bit RISC 400MHz processor
- **DRAM:** 64 MB DDR2 on board
- **Storage:** 128 MB flash memory on board,  
(User project size: 16MB, Data and Event log size: 48MB)
- **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)  
1 USB 1.1 host  
1 USB 2.0 high speed device
- **RTC:** Built-in
- **Power input:** 24±20%V<sub>DC</sub>, 300mA@24VDC
- **Dimension (W x H x D):** 271 x 212 x 50mm
- **Weight:** 1.4kg
- **Software:** EB8000 V2.0.0 or later

### **Features**

- 10" 800x480 TFT LCD
- Fan-less cooling system
- Built-in flash memory and RTC
- NEMA4/IP65 compliant front panel
- LED Back Light
- One USB Host and one USB client port
- SD card slot
- Power Isolator inside

### **LCD Display**

Display type	TFT LCD
Display size (diagonal)	10"
Max colors	65536
Resolution	800 x 480
Viewing angle (°)	45/65/65/65(T/B/R/L)
Luminance (cd/m <sup>2</sup> )	350
Backlight	LED
Backlight Life time	30,000 hrs.
Contrast ratio	300:1

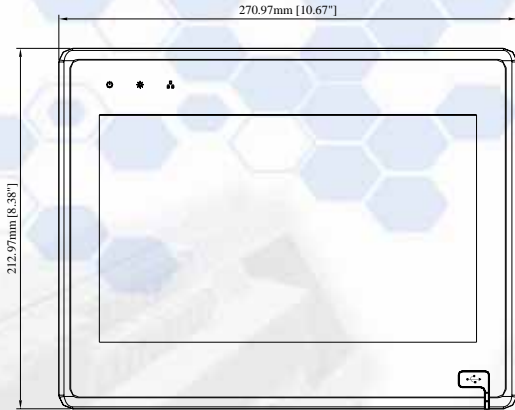
### **Touchscreen**

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

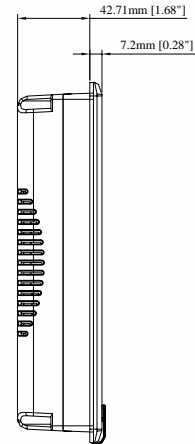
### **Environmental Specifications**

- **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**

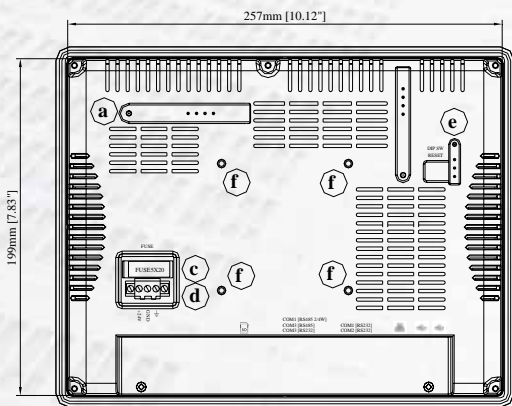
◆ **Dimensions Drawing**



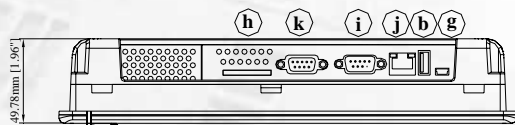
Front View



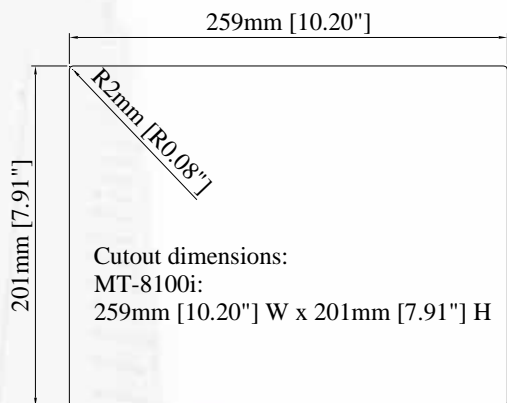
Side View



Rear View



Bottom View



Cutout dimensions:  
MT-8100i:  
259mm [10.20"] W x 201mm [7.91"] H

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	Ethernet port (RJ-45)
		k	Com1 RS485, Com3 RS485, Com3 RS232

**Ordering Information**

- ❑ **OP-MT8100I-CT:**  
10" 800x480 TFT LCD HMI, 128MB flash memory/64MB DDR2 RAM on board.
- ❑ **OP-MT8100I-IW:**  
10" 800x480 TFT LCD HMI, 128MB flash memory/64MB DDR2 RAM on board, wall mounting kit.
- ❑ **FRM10W-S03-AL-NAT, FRM10W-S03-AL-BLC:**  
Decorative frame, natural or black Aluminum