

# MT610i

Human Machine Interface  
with 10" TFT LCD display



## **Introduction**

The MT610i is a miniature and compact platform that has no redundant functions. Its RISC kernel, the ARM11 high performance micro-processor, that supports Windows CE. The ARM926EJ core, the integration of a 2D Graphics Accelerator, an added low power mode.

The MT610i 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,  
(ResidntFlash: about 100MB)
- **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
- **Sound output:** Line out
- **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:** Windows CE.net 5.0

## **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> ) | 300                  |
| Backlight                      | LED                  |
| Backlight Life time            | 30,000 hrs.          |
| Contrast ratio                 | 500:1                |

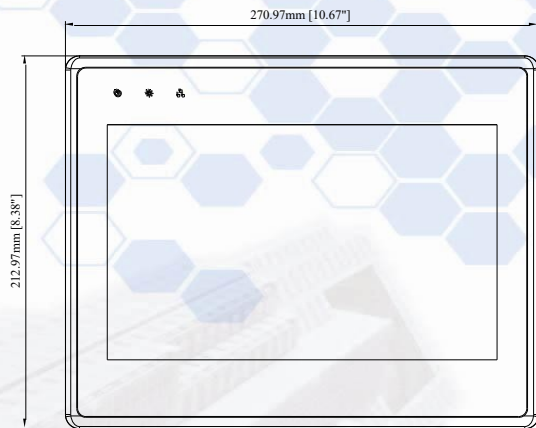
## **Touchscreen**

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

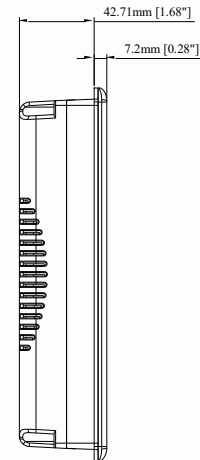
## **Environmental Specifications**

- **Operating temperature:** 0° ~ 50°C (32° ~ 122°F)
- **Storage temperature:** -20° ~ 60°C (-4° ~ 140°F)
- **Relative humidity:** 10% ~ 90% @ 40°C, non-condensing
- **Shock (operation):** 10 to 25Hz(X,Y,Z direction 2G 30minutes)
- **CE/FCC:** Complies with EN 55022:2006, Class A  
EN 61000-3-2:2006  
EN 61000-3-3:1995+A1:2001+A2:2005  
EN 55024:1998+A1:2001+A2:2003
- **Front panel meets NEMA4 / IP65**

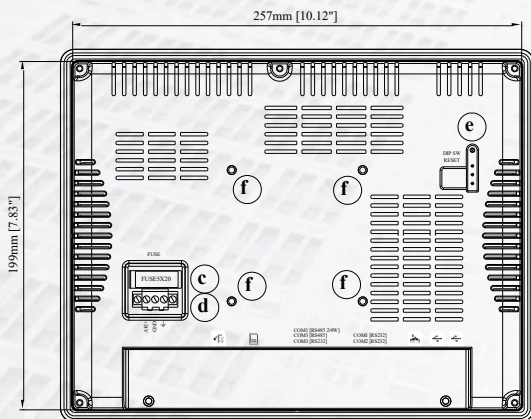
## Dimensions Drawing



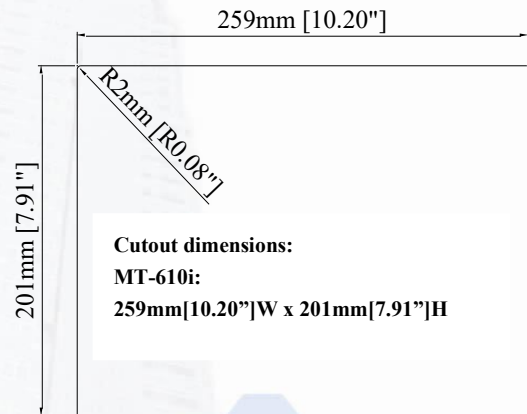
Front View



Side View



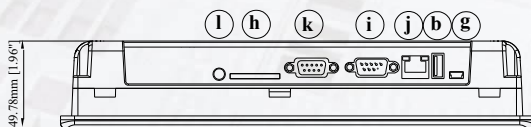
Rear View



Cutout dimensions:

MT-610i:

259mm[10.20"]W x 201mm[7.91"]H



Bottom View

|   |                          |   |                                       |
|---|--------------------------|---|---------------------------------------|
| a | N/A                      | g | USB Client Port                       |
| b | USB Host Port            | h | SD Card Slot                          |
| c | Fuse                     | i | Com1 RS232, Com2 RS232                |
| d | Power Connector          | j | Ethernet Port (RJ-45)                 |
| e | DIP SW & Reset Button    | k | Com1 RS485, Com3 RS485,<br>Com3 RS232 |
| f | VESA 75mm Screw<br>Holes | l | Line Out                              |

## Ordering Information

### □ MT610i:

10" 800x480 TFT LCD HMI, 128MB flash  
memory/64MB DDR2 RAM on board.