

# MT610TV2

Windows CE touch panel computer  
with 10.4" TFT LCD display



## 【 Introduction 】

The MT610TV2 is a miniature and compact platform that has no redundant functions. Its RISC kernel, the CIRRUS LOGIC EP9315 200MHz processor design with a memory management unit (MMU), that supports Windows CE. The ARM920T's 32-bit microcontroller architecture, with a five-stage pipeline, delivers impressive performance at very low power.

The EP9315 includes a hardware graphics acceleration engine that improves graphic performance by handling block copy, block fill and hardware line draw operations. The graphics accelerator is used in the system to off load graphics operations from the processor.

## Specifications

- **Construction:** plastic molding housing
- **Display:** 10.4" 640x480 65536 color TFT LCD
- **CPU and core logic:** CIRRUS LOGIC® EP9315 200MHz ARM920T core processor
- **DRAM:** 64 MB on board
- **Storage:** 32 MB flash memory on board,  
1 CompactFlash™ card slot.  
44-pin IDE interface.
- **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)
- **Sound output:** 20-bits Stereo output
- **RTC:** Built-in
- **Power input:** 24 V<sub>DC</sub>, 440mA maximum

## Features

- 10.4" 640x480 65536 colors TFT LCD
- CIRRUS LOGIC EP9315 200MHz ARM920T core processor
- Fan-less cooling system
- Built-in flash memory and Windows CE OS inside
- NEMA4/IP65 compliant front panel
- One CompactFlash™ slot
- 44-pin IDE interface

## LCD Display

Display type	TFT LCD
Display size (diagonal)	10.4"
Max colors	65536
Resolution	640 x 480
Pixel pitch (HxV, mm)	0.33 x 0.33
Viewing angle (°)	35/45/55/55 (T/B/R/L)
Luminance (cd/m <sup>2</sup> )	400
Storage temperature (°C)	-20~60
Operating temperature (°C)	0~45
Backlight	CCFL x 2
Backlight life time (avg.)	50,000 hrs.
Contrast ratio	300:1

## Touchscreen

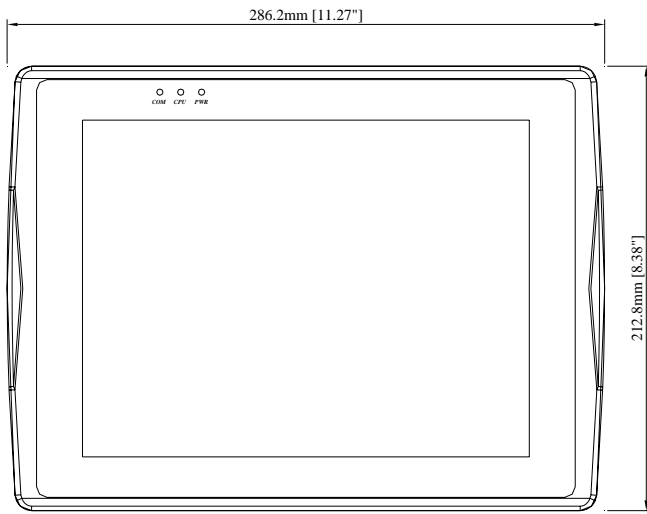
- **Type:** 4-wire, analog resistive
- **Resolution:** continuous
- **Light transmission:** above 80%
- **Life:** 1 million activation minimum

## Environmental Specifications

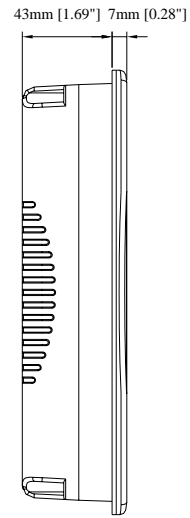
- **Operating temperature:** 0° ~ 45°C (32° ~ 113°F)
- **Relative humidity:** 10% ~ 90% @ 40°C, non-condensing
- **Shock (operation):** 10 to 25Hz(X,Y,Z direction 2G 30minutes)
- **EMI:** Complies with FCC class A
- **CE:** Complies with EN50081-2 and EN50082-2 standards
- **Front panel meets NEMA4 /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

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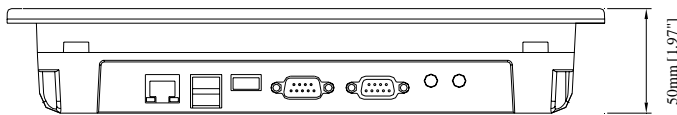
## Dimensions Drawing



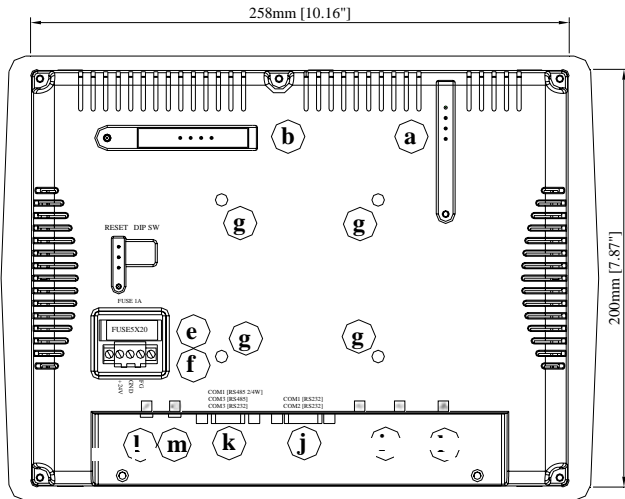
Front View



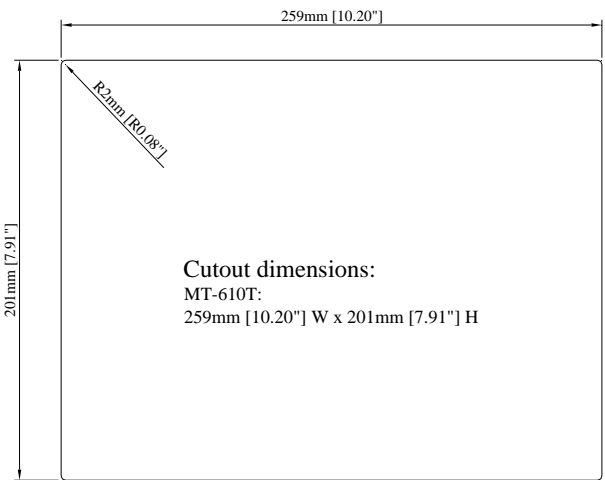
Side View



Bottom View



Rear View



a. CompactFlash™ slot	h. Ethernet port
b. 44pin IDE Interface	i. USB Host
c. DIP Switch	j. Com1 [RS-232] Com2 [RS-232]
d. Reset button	k. Com1 [RS-485 4/2w] Com3 [RS232]/[RS485]
e. Fuse	l. Mic In
f. Power terminal	m. Line Out
g. VESA 75mm screw holes	

## Ordering Information

### MT610TV2:

10.4" TFT VGA LCD display touch panel computer with EP9315 200MHz ARM920T processor, 32MB flash memory/64MB DRAM on board and Windows CE.net 4.2 English OS.

### PS610:

MT610/MT8104 Protective Sheet 5 sheets per package.