

# MT612TV2

## Windows CE touch panel computer with 12.1" SVGA TFT display



### Introduction

The MT612TV2 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:** 12.1" SVGA 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>, 0.5A maximum
- **Dimension (W x H x D):** 322 x 243 x 51mm
- **Weight:** about 2.1kg

### Features

- 12.1" SVGA 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 color LCD
Display size (diagonal)	12.1"
Max colors	65536
Resolution	800 x 600
Pixel pitch (HxV, mm)	0.3075 x 0.3075
Viewing angle (°)	110 (Upper+Lower), 130 (Left+Right)
Luminance (cd/m <sup>2</sup> )	400
Backlight	2 CCFLs
Contrast Ratio	500:1

### Touchscreen

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

### Environmental Specifications

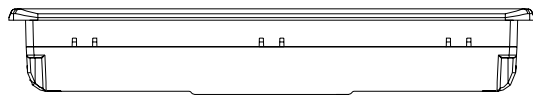
- **Operating temperature:** 0° ~ 45°C (32° ~ 113°F)
- **Relative humidity:** 10% ~ 90% @ 40°C, non-condensing
- **Shock (operation):** 10 to 25Hz(X,Y,Z direction 2G 30minutes)
- **EMI:** Complies with FCC Class A
- **CE :** Complies with EN50081-2 and EN50082-2 standards
- **Front panel meets NEMA4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

### Ordering Information

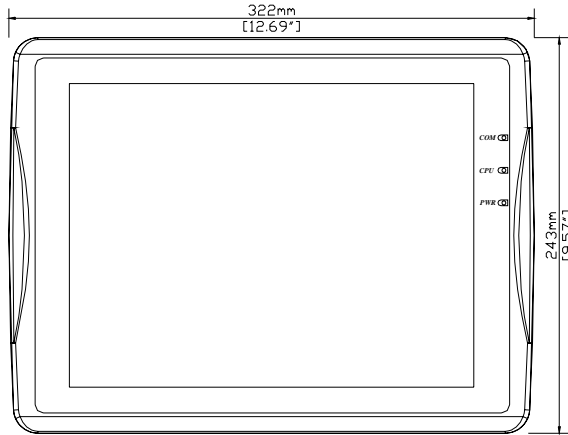
#### □ MT612TV2:

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

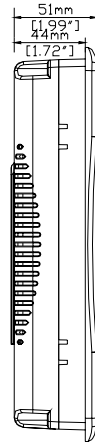
# Dimensions of MT-612



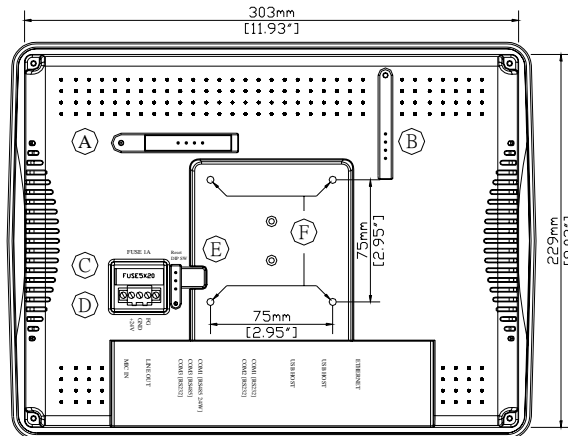
Top View



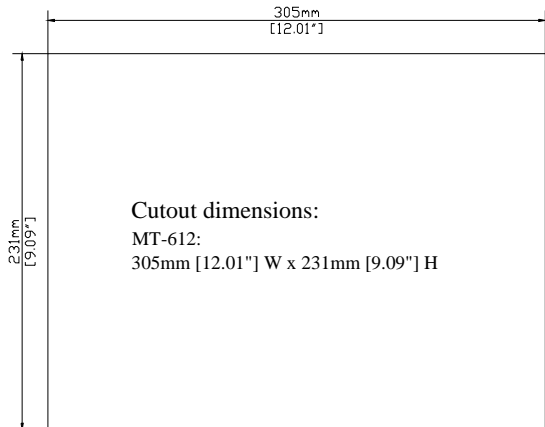
Front View



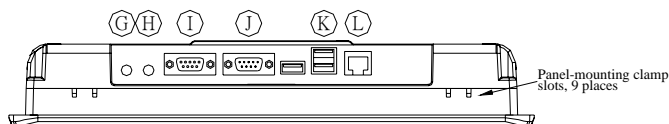
Side View



Rear View



Cutout dimensions:  
MT-612:  
305mm [12.01"] W x 231mm [9.09"] H



Bottom View

- |   |                          |   |                                    |
|---|--------------------------|---|------------------------------------|
| A | IDE interface (DOM slot) | G | Mic In                             |
| B | Compact Flash™ slot      | H | Line Out                           |
| C | Fuse                     | I | Com1 RS485, Com3 RS485, Com3 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        |