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# MT612 X

## X86 CPU Core Touch Panel Computer with 12.1" SVGA TFT Display



### Introduction

The MT612X is a miniature and compact platform that has excellent system performance and function. The x86 CPU Core provides the maximum compatibility with the vast amount of Internet content available while the intelligent integration of several other functions, including graphics, makes the AMD Geode™ LX processor a true system level multimedia solution.

### Specification

- **Construction:** plastic molding housing
- **Display:** 12.1" SVGA color TFT LCD
- **CPU and Core Logic:** AMD Geode™ LX800/500MHz core processor
- **System BIOS:** award PnP BIOS
- **DRAM:** 256MB on board DDR-400MHz SDRAM
- **Storage:** 44-pin IDE interface
- **I/Os:**
  - 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 ports (12Mbps)
  - 1 Mini USB full-speed port (12Mbps)
- **Sound Output:** AC'97 Stereo codec
- **RTC:** Built-in
- **Power Input:** 24 V<sub>DC</sub>, 0.8A maximum
- **Dimensions (W x H x D):** 322 x 243 x 51mm
- **Weight:** approx. 2.1 KGS

### Features

- 12.1" SVGA 18-bit TFT LCD
- AMD Geode™ LX800/500MHz core processor speed
- Fan-less cooling system
- NEMA4/IP65 compliant front panel
- On-board 256MB DDR-400MHz SDRAM
- 44-pin IDE interface (D.O.M)
- High performance 2D accelerator graphic controller, supporting 8~128MB shared display memory

### LCD Display

| Display Type                   | TFT Color LCD         |
|--------------------------------|-----------------------|
| Display Size (Diagonal)        | 12.1"                 |
| Max. Colors                    | 65536                 |
| Resolution                     | 800 x 600             |
| Pixel Pitch (H x V / mm)       | 0.3075 x 0.3075       |
| Viewing Angle (°)              | 50/60/70/70 (T/B/R/L) |
| Luminance (cd/m <sup>2</sup> ) | 450                   |
| Backlight                      | 2 x CCFLs             |
| Contrast Ratio                 | 600:1                 |



### Touch screen

- **Type:** 4-wire, analog resistive
- **Resolution:** continuous
- **Light Transmission:** approx. 80%
- **Life:** 1 million activation minimum

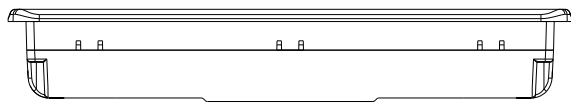
### Environmental Specification

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

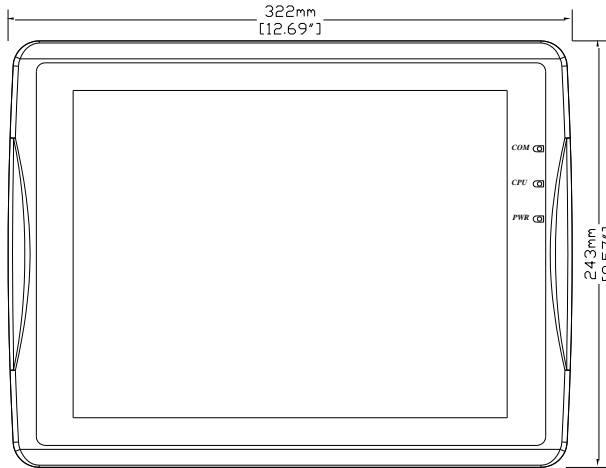
### Ordering Information

- ☐ **XPE-1G** XPE license + 1G DOM   
1GB Disk On Module and Windows Embedded XP OS inside.
- ☐ **CE-256M** CE license + 256M DOM   
256MB Disk On Module and Windows CE 5.0 OS inside.

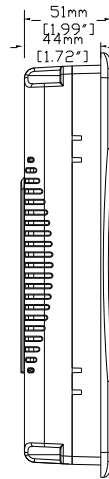
# Dimensions of MT612X



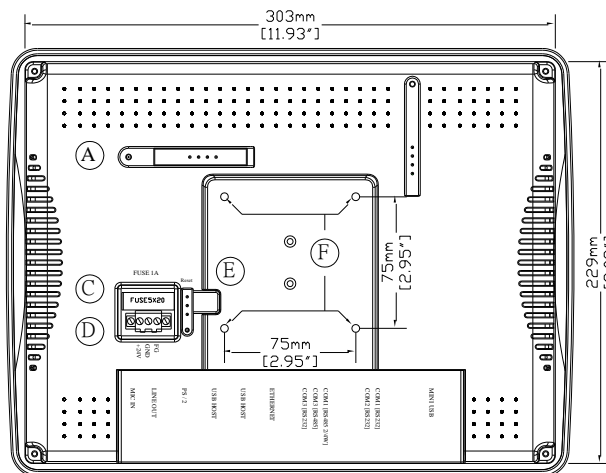
Top View



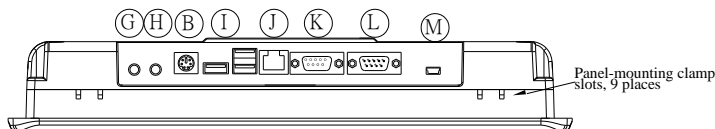
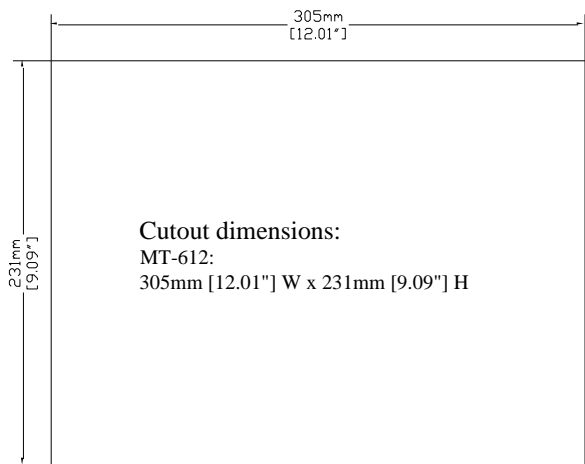
Front View



Side View



Rear View



Bottom View

- |   |                          |   |                                    |
|---|--------------------------|---|------------------------------------|
| A | IDE Interface (DOM Slot) | H | Line Out                           |
| B | PS/2 Port Connector      | I | USB Host Port x 3                  |
| C | Fuse                     | J | Ethernet Port 10/100 Base-T        |
| D | Power Connector          | K | Com1 RS485, Com3 RS485, Com3 RS232 |
| E | Reset Button             | L | Com1 RS232, Com2 RS232             |
| F | VESA 75mm Screw Holes    | M | Mini USB Port x 1                  |
| G | Mic In                   |   |                                    |