

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)
2 USB 2.0 full-speed host ports (12Mbps)
1 Mini USB full-speed host port (12Mbps)
SD CARD SLOT
- **Sound Output:** AC'97 Stereo codec
- **RTC:** Built-in
- **Power Input:** 24 V_{DC}, 1.25 A maximum
- **Dimensions (W x H x D):** 322 x 243 x 51 mm
- **Weight:** approx. 2.1 KGS

Touchscreen

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

Features

- 12.1" SVGA 18-bit TFT LCD
- AMD Geode™ LX800/500MHz core processor speed
- Fan-less cooling system
- Disk on module and Windows CE OS inside or XPE OS inside
- 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 8~64MB shared display memory

LCD Display

Display Type	TFT Color LCD
Display Size (Diagonal)	12.1"
Max. Colors	65,536
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 ²)	400
Backlight	2 x CCFLs
Contrast Ratio	500:1

Environmental Specification

- **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 directions/2G/30 minutes)
- **CE/FCC:** EN 55022: 1998+A1: 2000+A2: 2003 Class A, EN 55024: 1998+A1: 2001+A2: 2003
- **Front Panel meets NEMA4 / IP65**

Ordering Information

□ MT612X:

12.1" TFT LCD display touch panel computer with AMD Geode™ LX800/500MHz core processor.

□ XPE-2G XPE license + 2G DOM

2GB Disk On Module and Windows Embedded XP OS inside.

□ XPE-4G XPE license + 4G DOM

4GB 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.

□ Protective Sheet

P/N: RP0006120 12.1" Protective Sheet, for MT612T, MT612X, MT8121T, MT8121X.

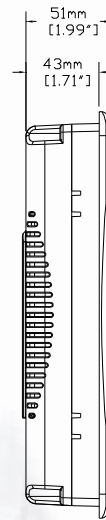
Dimensions of MT612X



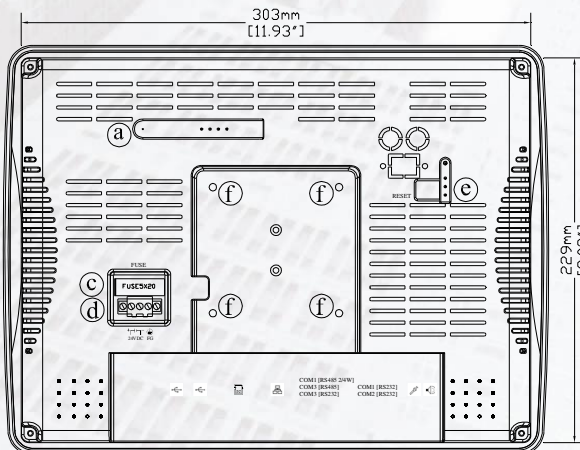
Top View



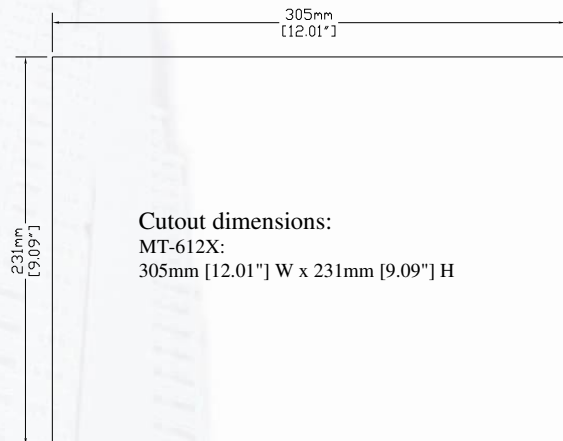
Front View



Side View



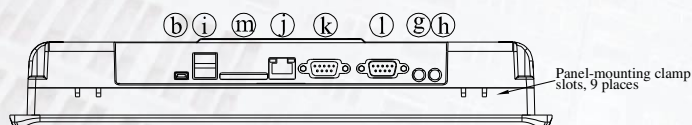
Rear View



Cutout dimensions:

MT-612X:

305mm [12.01"] W x 231mm [9.09"] H



Bottom View

a	IDE interface (DOM slot)	h	Line Out
b	Mini USB	i	USB Host port x 2
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	SD CARD SLOT
g	Mic In		

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