MT610i

Human Machine Interface with 10" TFT LCD display

◆ 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

【 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_{DC},300mA@24VDC
- **Dimension (W x H x D):** 271 x 212 x 50mm
- **Weight:** 1.4kg

◆ LCD Display

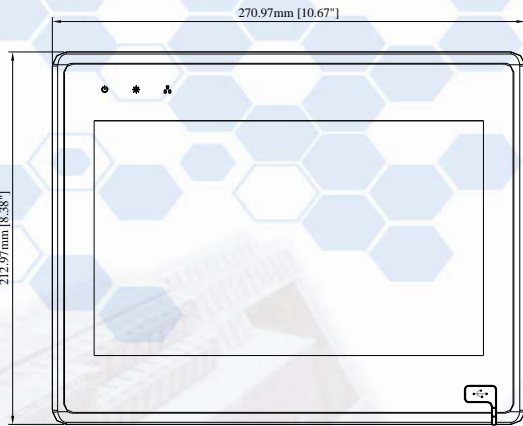| Display type	TFT LCD
Display size (diagonal)	10"
Max colors	65536
Resolution	800 x 480
Viewing angle (°)	45/65/65/65(T/B/R/L)
Luminance (cd/m^2)	350
Backlight	LED
Backlight Life time	30,000 hrs.
Contrast ratio	300:1

◆ Touchscreen

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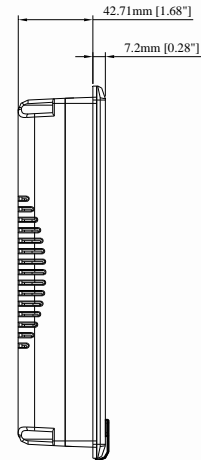
◆ Environmental Specifications

- **Operating temperature:** 0° ~ 45°C (32° ~ 113°F)
- **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
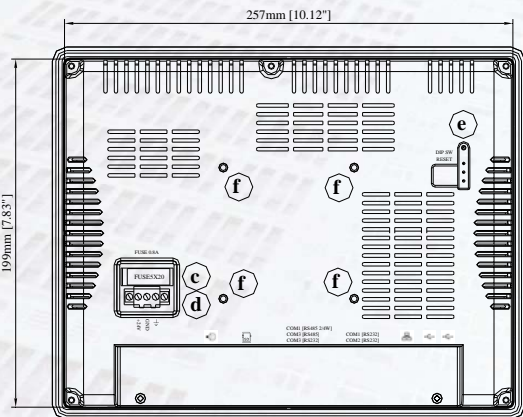 EN 61000-3-3:1995+A1:2001+A2:2005
- **Front panel meets NEMA4 / IP65**

◆ *Dimensions Drawing*
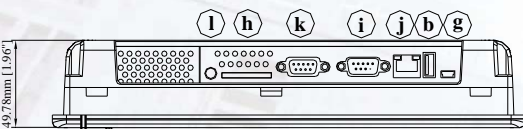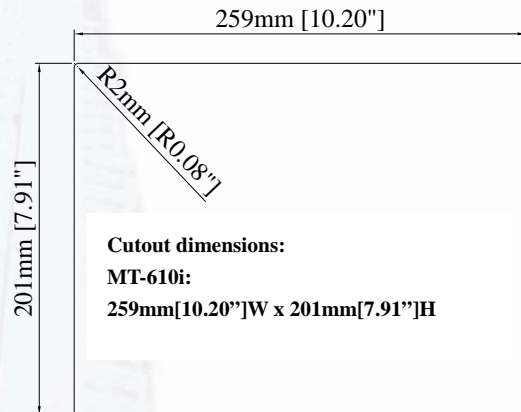
270.97mm [10.67"]

212.97mm [8.38"]

Front View

42.71mm [1.68"]

7.2mm [0.28"]

Side View

257mm [10.12"]

199mm [7.83"]

FUSE 6.3A

FUSE5X20

COM1 [RS485 2-W]
COM3 [RS485]
COM3 [RS232]

COM1 [RS232]
COM2 [RS232]

DIP SW
RESET

e

f   f

c   f   f
d

Rear View

259mm [10.20"]

201mm [7.91"]

R2mm [R0.08"]

Cutout dimensions:
MT-610i:
259mm[10.20"]W x 201mm[7.91"]H

49.78mm [1.96"]

l h   k   i j b g

Bottom View

1. The "b" USB Host port can be connected alternatively from the USB port on the front panel

a	N/A	f	VESA 75mm screw holes
b.	USB Host port *[1]	g	USB Device port
c.	Fuse	h	SD card slot
d.	Power connector	i	Com1[232], Com2[232]
e	DIP SW & Reset button	j	Ethernet port (RJ-45)
l	Line Out	k	Com1 RS485, Com3 RS485, Com3 RS232

Ordering Information

❑ **MT610i:**
  10" 800x480 TFT LCD HMI, 128MB flash memory/64MB
  DDR2 RAM on board.