



# Open HMI MT 600

## WEINTEK LABS.,INC

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## MT 600 Operator Interface

■ We are --Dedicated & Professional in HMI

■ We insist-- Quality Products

■ We adopt-- State-of-the-Art Technology

■ We provide-- Satisfying Service



**Touch screens** are terminals of the e-world nowadays. Through the use of touch screens, people can communicate with a variety of equipments or devices. Touch screens widely used in our lives - such as industrial controls, KIOSK, BA, POS, ATM...etc. are high potential products in the niche market. With the coming of the e-world, the applications of touch screens are quietly extending to every corner of our lives and make our lives more convenient.

**Weintek Labs., Inc.** was established in October, 1995 and has dedicated to be a professional company in designing and manufacturing the hardware and software of PLC Operator Interfaces. We select factory automation (FA) market as our initial and primary target market. Providing products with high standard quality to our customers is always the principle of the company since we deeply believe that "customer satisfaction" is the most valuable asset of the company. In addition, Weintek builds up its own brand name -EasyView/WEINVIEW to reach the goal of business perpetual operation.

**Each year**, the sales volume grows up promptly around 40% ~ 60%. At present, the percentage of EasyView products to OEM products is 50% to 50%; the percentage of overseas orders to domestic orders is 90% to 10%.

**The R&D of touch screens** involves in the complicated technical integration of hardware, software and system. For hardware, we integrate 32-bit RISC and CISC CPU, touch panel, video conversion and multi-media,...etc.; For software, we choose suitable operating system to fulfill customer requirements.

**The value of technology** is to meet people needs. It is a natural trend that most of users will be convinced to select simple, convenient and humanized products and EasyView is the one with this spirit.



ISO 9001: 2000

## ● Open HMI

- Open HMI is designed between traditional HMI and industrial PC. It increases functionality and flexibility over traditional HMI while provides the lower cost than industrial PC.
- IMS Research forecasts that open HMI will be a trend and the fastest growing product in HMI industry.
- Weintek's open HMI solutions meet the rugged industrial requirement concerning IP65 water-dust resistant, vibration as well as wide-range temperature resistance.
- Great supports on I/O expansion and open platform that can run third party software, such as WinCE or XP embedded, also make Weintek's HMI solutions the best performance and flexibility.

:::MT600T/i/X

MT606T

MT608T

MT607i  
Coming soon..

MT610X  
Coming soon..

MT612X

MT615X



5.6-inch

8-inch

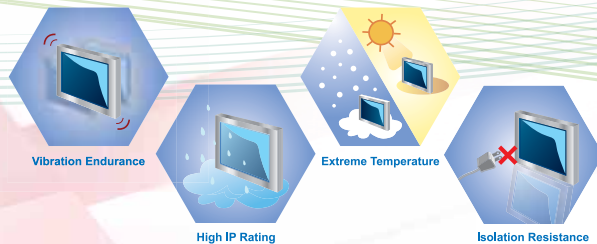
7-inch

10.4-inch

12-inch

15-inch

:::Industrial Grade HMI



Vibration Endurance

High IP Rating

Extreme Temperature

Isolation Resistance



## Factory Automation

Wide-range HMI applications can be seen in manufacturing, such as machine control, factory automation, warehousing and logistic management. Aiming at complicated applications on web-based, wireless and distributed system control, MT600 Open HMI support powerful features and peripheral options for ever-changing techniques.



## Delivery & Transportation Management

Real-time information transmission in delivery, truck or fleet management can increase the efficiency of transportation companies. Via MT600 wireless function, data or information can instantly be transmitted from vehicles to dispatch control center which considerably improves the accuracy in scheduling, positioning and delivery.





### Self-Service Kiosk

Kiosk is a self-service equipment which integrates a variety of hardware and application software in the form of multimedia, such as pictures, texts, to provide sales or information service. Recent years, more and more retail stores, airport check-in systems, financial services...etc. choose self-service Kiosk as an important solution in reducing labor cost, increasing business efficiency or improving customer relationship management. MT600 X series provide a quality and stable platform for Kiosk software and integration suppliers to custom their applications easily.

Furthermore, optional wireless USB or mini PCI for MT600 series is an advanced solution. For retailers, remote server can collect and analyze survey data from local HMIs and then provide considerate service to customers.

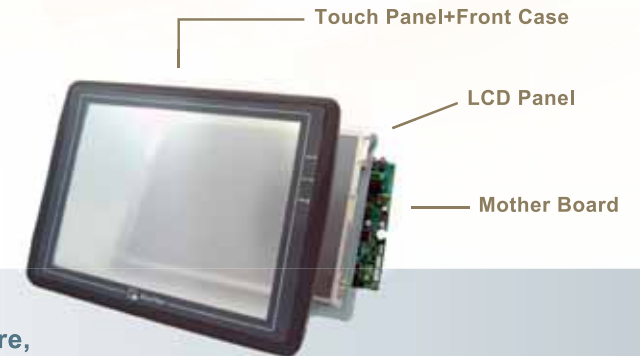


### Building Automation



Building automation is a programmed, computerized, intelligent network of electronic devices that monitor and control such as mechanical and lighting systems in a building. The intent is to create an intelligent building as well as reduce energy and maintenance costs. In the meantime, more and more information indicates the trend of building automation and open HMI will become an important interface in utility control management. Weintek MT600 series help users to achieve boundary-less building management system by Powerful Ethernet-enabled solutions in diverse BA applications.

### • Display Illustration



Simple three-layer structure, Weintek one-stop store provides main components in your applications.



• WinCE

Windows CE (WinCE) is the operating system Microsoft especially design for embedded system. Compared with general Windows systems, WinCE meets the required features — compact Kernel, customization, portability and real-time for embedded device. Moreover, WinCE system can be run on hardware platform more reliable as well as provides higher compatibility in the development interface of Win32 API.

Since the kernel of WinCE succeeds WinNT technique, and combine MT600 hardware with 32bit real-time OS, it's easy for desktop programmers to develop the application or directly convert the software to WinCE platform.

On top of that, Weintek MT600 series support up-to-date software development tools for platforms integration such as DotNet CF, SQL Mobile, Java, XML...etc. More than enhancing the Ethernet function, we provide a variety of network protocols, such as for VoIP.

In multimedia, in addition to DirectX, we add COM-based (Component Object Model) project development model—Direct3D Mobile. Users are able to adopt 3D visual design in their applications.

• Windows XP Embedded

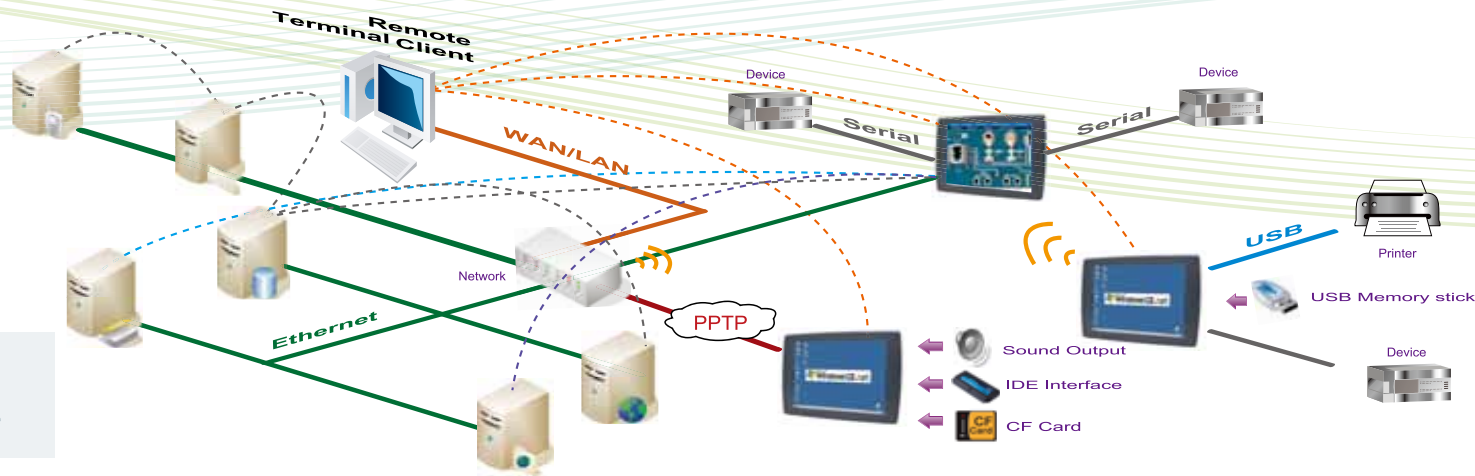
Windows XP Embedded, or XPE, is the componentized version of Microsoft Windows XP Professional and the successor to Windows NT 4.0 Embedded. Windows XP Embedded enables developers to utilize the latest technologies that the Windows platform offers while at the same time achieving a reduced footprint. In addition, it offers a wealthy of enhanced capabilities: industry-leading reliability, security, and performance.

MT600 X series is the open-HMI which combines the advantages of Windows XP Embedded and Weintek's professionalism in hardware design.

10 outstanding features on MT600 X series

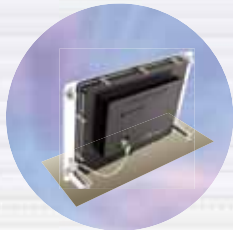
1. Fast Development: It runs tens of thousands of drivers and applications that already exist.
2. High Security
3. Task Real-Time
4. Wide peripheral devices support
5. Custom flexible & reliable platform
6. Powerful technology combination: multimedia decoder, Bluetooth, DirectX, .NET Framework, Java...and so on.
7. Plenty of Internet resource.
8. Easy for management
9. Web-based and cutting-edge multimedia features: such as Microsoft Windows Media Player and Explorer.
10. Most cost/performance product on the market

• Device Connection & Data Exchange





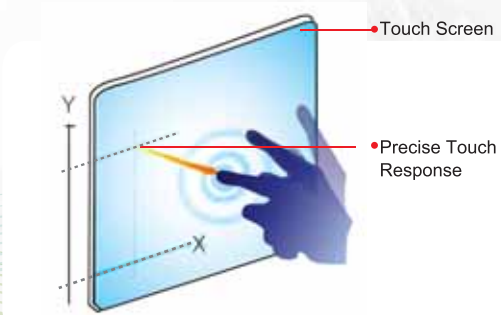
Mount Support



Panel Mount



VESA



Serial Interface

Each MT600 is equipped with 3 serial ports which can directly connect with 3 different devices simultaneously.



High Contrast & High Brightness LCD

High-quality color displays with superior clarity, wide viewing angles and durable lifespan

MT600 support 65536[16bit] colors and provide finer more vivid visibility. Quick response in screens exchange; Smooth switch over screens without flashing and clearly exhibit pictures.



Sound Output

Equipped with WinCE/XPE powerful multimedia components: Media player/ Direct, MT600 provides versatile audio effects.



USB 2.0 Interface

The flexibility of USB interface enriches the functionality of MT600. Each MT600 is equipped with 3 USB 2.0 interfaces for users to connect to printer, bar code reader, mouse and a variety of extended USB devices.



Ethernet

Ethernet allows several MT600 and other devices on the network to exchange data with high speed.

CF Card (T series only)

MT600 provides standard CF Card slot for storage extension.



Optional Wireless USB & Mini PCI

MT600 series provide optional USB/MiniPCI wireless solution to solve the difficulty in physical internet wiring. MT600 wireless network solution makes you easily to communicate with wireless stations anywhere. Connecting your LAN/WAN, MT600 supports high data encryption and reach convenient, reliable and secure data exchange environment.





• MT 600T / i



	MT606T	MT608T	MT607i
Processor	200MHz(RISC)		533MHz(RISC)
OS	Windows CE		
Display	5.6" TFT LCD	8" TFT LCD	7" WVGA TFT LCD
Max. Colors	65536		
Resolution	320x234	640x480	800x480
Viewing Angle	45/65/65/65/ (T/B/R/L)	55/65/65/65/ (T/B/R/L)	R/L:60/60 U/D:40/60
Brightness (cd/m <sup>2</sup> )	300	400	450
Contrast Ratio	300:1	250:1	400:1
Backlight	LED	CCFLx1	LED
Backlight Avg. Life	20,000hr	50,000hr	40,000hr
Touch Panel	4-wire, Analog Resistive		
Touch Accuracy	2mm		
Memory	64MB		
DRAM on board	64MB		
Storage	32MB Flash Memory		64MB Flash Memory
I/O Port	Com1(RS232/RS485 2w/4w), Com2(RS232), Com3(RS232/RS485 2w)		
Serial Port	10/100 Base-T x 1		
Ethernet Port	10/100 Base-T x 1		
USB Interface	USB 2.0 x 2	USB 2.0 x 3	USB x1 , Device x1
Sound Output	Line Out x 1		
Expansion	CompactFlashTM Card Slot x 1		SD Card Slot
Power	Power Input		
Power Consumption	12~24VDC	24VDC±5%	12~24VDC
Certificate	410mA@12VDC-220mA@24VDC	440mA @24VDC	TBD
IP Rating	CE/UL/RoHS		
Dimensions (WxHxD)	IP65 (NEMA 4)		
Weight	204x150x48mm	240x178x50mm	240x150x48mm
Front Frame	0.85kg (1.87 lbs)	1.3kg(2.87lbs)	TBD
Operating Temperature	Plastic		
Operating Humidity	-10~-45°C(14~-113°F)	0~-45°C(32~-113°F)	-10~-45°C(14~-113°F)
	10%~90%@40°C		

• MT 600X



	MT610X	MT612X	MT615X
Processor	500MHz(CISC)		
OS	Windows CE/XP Embedded		
Display	10.4" TFT LCD	12.1" TFT LCD	15" TFT LCD
Max. Colors	65536		
Resolution	640x480	800x600	1024x768
Viewing Angle	R/L:60/60 U/D:40/50	50/60/70/70 (T/B/R/L)	65/60/70/70 (T/B/R/L)
Brightness (cd/m <sup>2</sup> )	400	450	350
Contrast Ratio	300:1	600:1	700:1
Backlight	CCFL x 2		
Backlight Avg. Life	40,000hr	50,000hr	
Touch Panel	4-wire, Analog Resistive		
Touch Accuracy	2mm		
Memory	256MB		
DRAM on board	256MB		
Storage	44-pin IDE Interface		
I/O port	Com1(RS232/RS485 2w/4w), Com2(RS232), Com3(RS232/RS485 2w)		
Serial Port	10/100 Base-T x 1		
Ethernet port	10/100 Base-T x 1		
USB Interface	USB2.0x2	USB 2.0 x 3	
Sound Output	Line Out x 1		
Expansion	SD Card Slot	44-pin IDE interface	
Power	Power Input		
Power Consumption	1.25A @ 24VDC (Max.)	0.8 A@24VD	1 A@24VD
Certificate	24VDC±5%		
IP Rating	CE/RoHS		
Dimensions (WxHxD)	CE/UL (under application)/RoHS		
Weight	IP65 (NEMA 4)		
Front Frame	286 x 212 x 50mm	322 x 243 x 51mm	366x293x55mm
Operating Temperature	TBD	2.1 kg (4.635lbs)	2.9kg (6.4lbs)
Operating Humidity	Plastic		Aluminum
	0° ~ 45°C (32° ~ 113°F)		
	10%~90%@40°C		

• MT 600T/ i

• MT 600X

Coming soon...

Coming soon...

MT606T

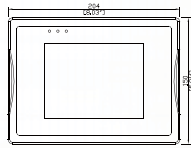
MT608T

MT607i

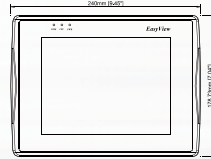
MT610X

MT612X

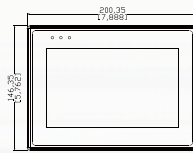
MT615X



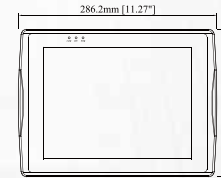
Front View



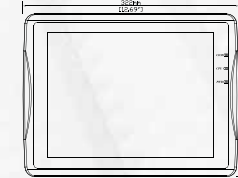
Front View



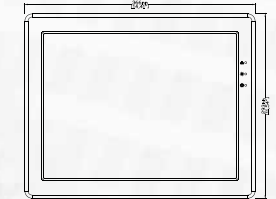
Front View



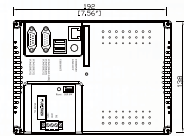
Front View



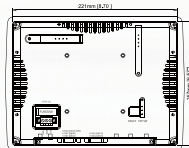
Front View



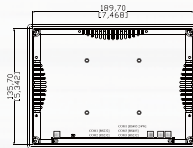
Front View



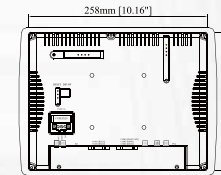
Rear View



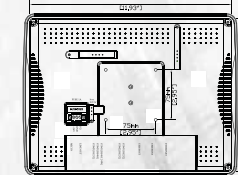
Rear View



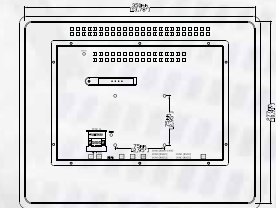
Rear View



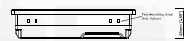
Rear View



Rear View



Rear View



Bottom View



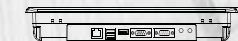
Bottom View



Bottom View



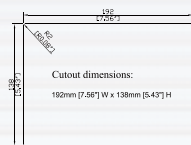
Bottom View



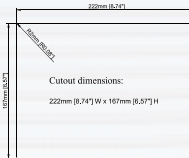
Bottom View



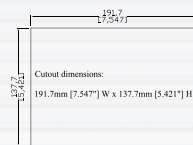
Bottom View



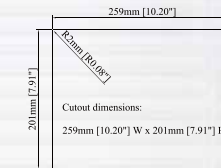
Panel Cutout



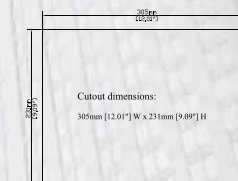
Panel Cutout



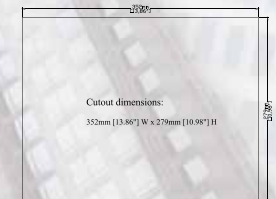
Panel Cutout



Panel Cutout



Panel Cutout



Panel Cutout

HEIGHT SCALE