

HMI PRODUCTS

Quality, Creativity, Infinite Advancement



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i Series



- The combination of fast 400 MHz RISC CPU and powerful EasyBuilder8000 configuration software, i Series can fulfill all you need in a HMI.
- The quality widescreens of i Series offer users more screen space to handle dynamic graphics, and the LED backlights ensure no turning yellow phenomenon on the screen after long-time use.
- The 7" 800x480 widescreen models can satisfy the needs in display of high quality.
- The 10" 800x480 widescreen LCD offers 25% more pixel coverage than a 10.4" 640x480 LCD.
- Built-in power isolation technology makes i Series more reliable in noisy environment.
- The direct connection of HMI USB 2.0 client and PC USB interfaces offers high-speed project and data transmission.
- Usage of USB Flash Drivers or SD memory cards is available on most of the i Series models to make data storing, project download, recipe upload/download, etc. more easily.
- The large 128MB Flash capacity enables users to make their program size up to 16MB and storage space for Event Log, Data Samples, etc. up to 48MB.

X Series



The high-speed 500 MHz microprocessor shows outstanding data processing to enhance communication transmission, to support live graphic display and to perform complicated animations and multi-page switching without delay.

- Bright, high-contrast 65536-color [16 bits] TFT displays offer superior clarity and wide viewing angles and enable stunning graphics. And large-size screens provides more space for engineering projects of complicated configuration.
- Sensitive, accurate and reliable touch panels enable at least one million times of continuous operations.
- All MT8000 X Series models are equipped with 3 serial ports, with which users can simultaneously connect 3 different types of PLCs or controllers.
- Supporting hardware expansion via universal USB, serial and SD interfaces. By connecting printers or bar code readers users can print information based on their schedule and configuration; and with USB devices users can store data such as data log, event log and data sampling on external memory devices.
- With MT8000 X Series enhanced Ethernet function, users can use LAN / WAN configuration to build up an efficient information-exchanging network and monitor the status of each X series HMI via a remote PC.
- MT8000 X Series standard audio feature enables user's configuration of sound output or alarming for occurrence of particular events.
- Built-in power isolation technology makes X Series more reliable in noisy, harsh environment.
- X Series supports the Media Player function to provide operation and maintenance instructions or standard procedures on video, which can help users to create an environment that enables any on-site operators to perform tasks efficiently from clear, comprehensible instructions.

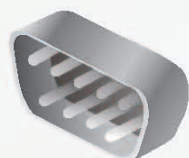
High Contrast & High Brightness LCD.
High-quality color display with superior resolution, wide viewing angles and durable lifespan.

MT8000 support 65536[16bit] colors and provide finer and more vivid visibility. Quick response in screens exchange; Smoothy screens switch without flashing. Clearly exhibit pictures, text and GIF dynamic file.



Serial Interface

Each MT8000 is equipped with 3 serial ports which can connect to 3 different PLCs/controllers simultaneously.



USB 2.0 Interface

The flexibility of USB interface enriches the functionality of MT8000. Each MT8000 is equipped with USB 2.0 interfaces which are not only for project download/upload and data storage but also for connection to printer, bar code reader, mouse and a variety of USB devices.



Ethernet

Multiple MT8000s/PLCs can be connected as a network through Ethernet.10/100 base-T. Ethernet allows several MT8000s on the network to exchange data at fast speed. Besides, any MT8000 can access data from other MT8000s. Users can also download project/data via Ethernet in a short time.

SD Card for Data Processing



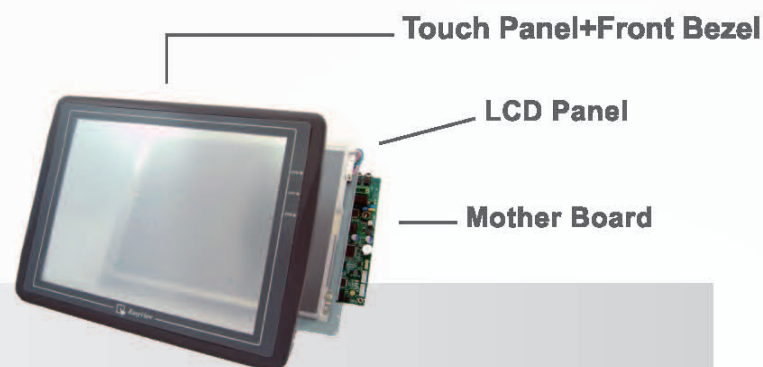
MT8000 Series provide a standard SD Card slot to improve the efficiency of recipe file, data logging and project downloading as well as to simplify the data processing.

Sound Output

MT8000 are able to send out both audio and visual alarm timely when error condition/environment occurs.



● Display Illustration



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



— Screen Display —

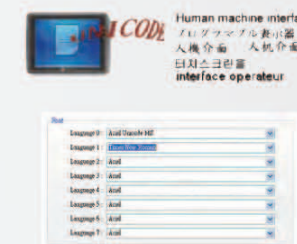
WINDOWS-Style Display

- Support 2000 screens
- 65536 colors
- User configurable screen saver
- User configurable system message dialog
- Fast Selection window function
- A variety of pop-up windows
- User configurable screen background
- Templates: users can build and select frequently-used template files.
- Window preview



Text Display

- Support 8 different languages and each language is able to have different font sizes and display positions.
- Support WINDOWS True-Font
- Support Italic, underline, glitter, marquee, bold font... etc.
- Support UNICODE; Multiple languages can be displayed on-screen.
- User configurable text library
- Text Library supports CSV format
- Export/ Import text library



Numerical Data Display and Input

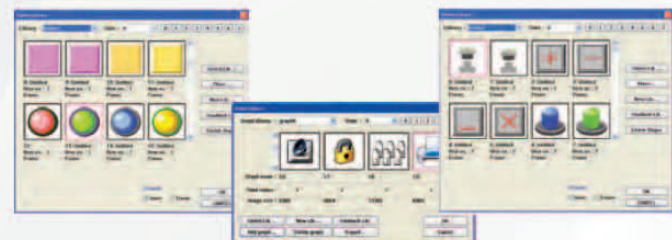
- Provide various keyboard selections or user personalized keyboards.
- Boundary alarm (change color or flash)
- Support acknowledging successful input function
- Input order function is able to key in value in a group of Numeric objects.
- Dynamic limits from PLC address.

Graphics Display

- Support BMP, JPG, GIF formats
- Support GIF dynamic graph display

Libraries

- System Shape Library includes various kinds of engineering object icons
- Users can select the inner or frame of a shape respectively.
- User configurable Shape Library
- User configurable Pattern Library
- User configurable Label Library
- Support EB500 Shape and Picture Library



Security

Password

- 6 security classes, 12 user accounts, 12 passwords.
- For each user, the security classes can be selected flexibly.

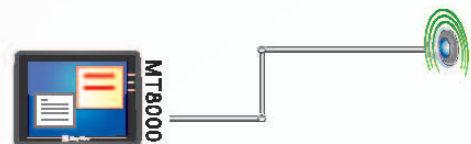


Object Protection

- Objects activation by safety timer function
- Configurable minimum press time
- Objects can be invisible by security classes control function
- Objects can be invisible by disable function

Event and Alarm

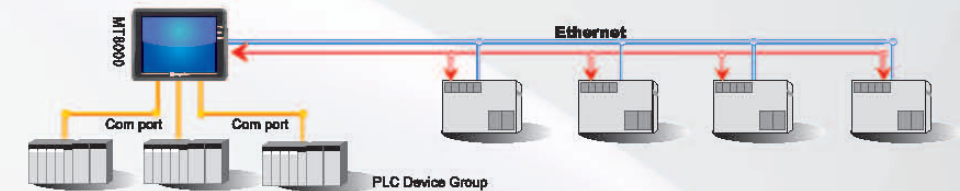
- Event Category function
- Alarm Priority function
- Operator acknowledge function
- Sound out when event occurs
- Historical event record function



Peripheral

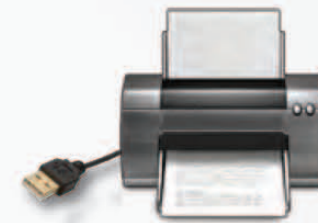
Device Connection

- Support various peripheral connections
- Connect up to 255 devices
- 10/100 Base-T Ethernet port x1
- USB host
- Serial RS232/RS485 port x3
- Sound output port (X series only)



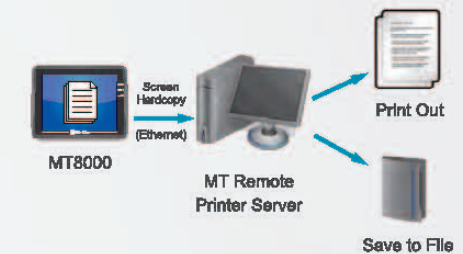
Printer

- Support USB printers



- Printer Server

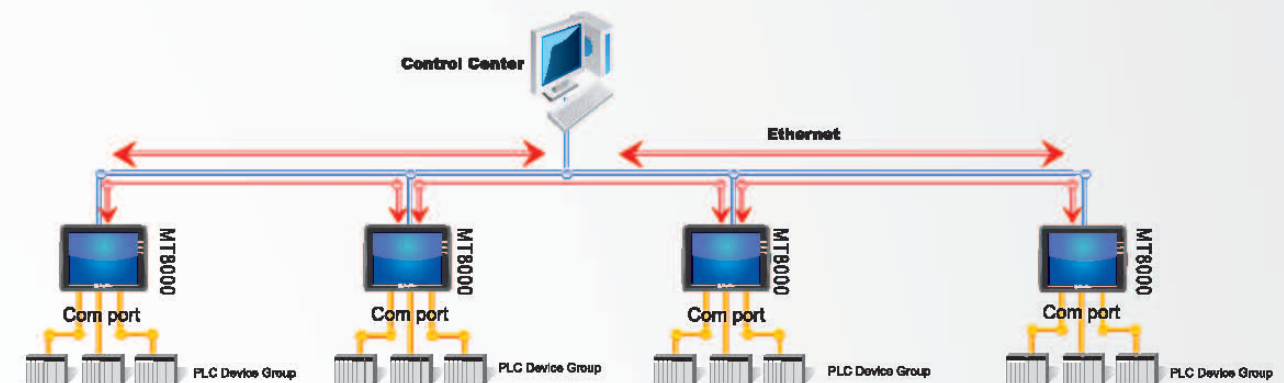
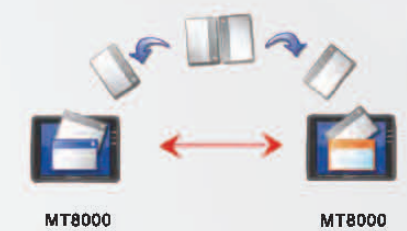
EasyPrinter is a Win32 application and only can run on MS Windows 2000/XP/Vista. It enables MT8000 series to output screen hardcopies on a remote PC via Ethernet.



Global Data Access

Data Exchanging

- Through Ethernet, each MT8000 can communicate and access data with one another.
- Through Ethernet, each MT8000 can operate the devices connected to other MT8000.
- Remote monitoring and fault diagnosis can be done through Ethernet.



Backup

- Back up RW,RW_A, Event log and Data log
- Data is able to be backed up to USB stick
- Through Ethernet via MT Remote printer server, data can be saved on PC

Data Sampling

- Users configurable data format (fix or floating point) and length
- Provide Periodical and Trigger data sampling modes
- Provide clear, hold... etc functions
- Save data into SD card, USB memory stick or HMI memory.
- Printer Server save and convert to PC

No.	Description	Repeat Addr.	Repeat No.	Trigger Addr.	Clear Addr.	Hold Addr.	Time (Sec)	Unit
1	Periodic	L000	10	L000	L000	0.00	1.00	Sec
2	Trigger	L000	1	L001	L000	0.00	1.00	Sec

Data Saving and Uploading

- Historical event data
- Sampling data
- Recipe data

No.	Type	Category	Mode	Scan Time	Condition	Read Address	Initialization Addr.
1	Event 0	WCRD	300 ms	> 30.00	L0120	L01	
2	Event 0	WCRD	300 ms	> 35.00	L0124	L01	
3	Event 0	SET	500 ms	ON	L0123	0.00	
4	Event 0	SET	500 ms	OFF	L0124	0.00	



Object Operation

Provide Powerful and Advanced Objects

- Bar graph and trend display
- List menu, dropdown menu and process percentage design
- Scheduling
- Media Player for playing AVI,MP3,MP4 and MPEG files.
- VNC function
- Support Zoom in/out function for Trend display and X.Y.Plot.



Address Operation

- Provide 32 index registers
- Provide Tag Library
- User configurable Tag Library
- Tag Library supports TXT or CSV formats
- Import/Export Tag Library

No.	Tag Name	Operate Mode	Device Type	Address	System Tag	Attribute
1	Substation 01	SET	LD	001	Tr	Start/Run
2	Substation 02	SET	LD	002	Tr	Start/Run
3	Substation 03	SET	LD	003	Tr	Start/Run
4	Substation 04	SET	LD	004	Tr	Start/Run
5	Substation 05	SET	LD	005	Tr	Start/Run

MACRO

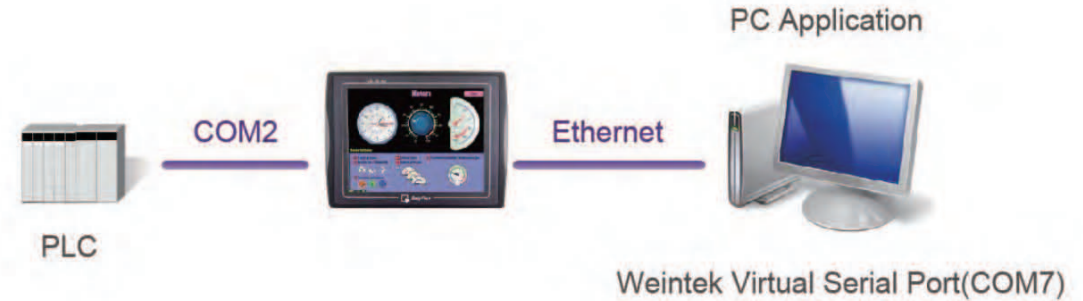
- Provide VB-Script-like macro
- Various Subroutine/Function call
- User configurable function library
- Configurable Macro command operation cycle
- Manual Macro execution
- Support free protocol
- Support mathematics function

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Macro Command 00001 1
  LDI M0
  AND M1
  SET M2
  END Macro Command
    
```

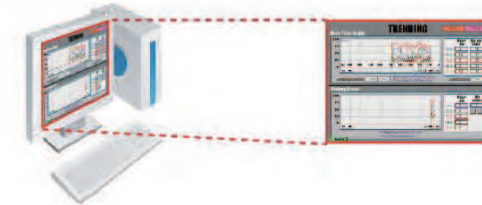
Pass-Through Communication

- MT8000 Pass-Through feature allows the application on PC to directly control PLC through HMI. Under this function, HMI plays a role as a converter-like device. COM mode and Ethernet mode are provided in EB8000 software. Click [Pass-through] button in Project Manager, users can review the settings of each mode.



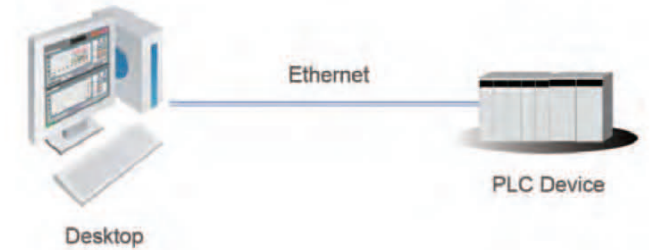
Offline Simulator

- Simulate the operation of MT8000 directly on PC without MT8000 and PLC.



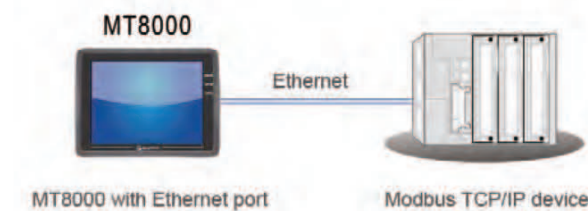
Online Simulator

- Connect PLC with PC to simulate the operation of MT8000. PC is able to retrieve data from PLC. (10 minutes simulation limit)

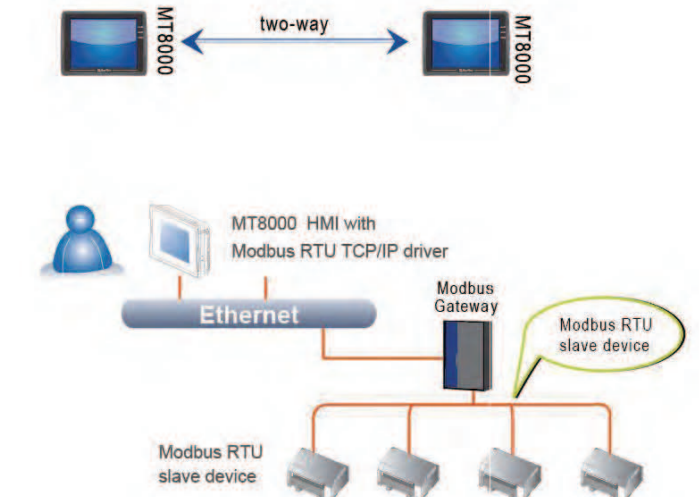


Ethernet Port

- Support MODBUS TCP/IP protocol, Allen-Bradley Ethernet I/P, Siemens S7-300, S7-200



Speedy Two-Way Communication



widescreen



widescreen



Model		MT6050i	MT6056i	MT6070iH
Display	Display	4.3" TFT	5.6" TFT	7" TFT
	Resolution	480x272	320x234	800x480
	Brightness (cd/m ²)	450	300	300
	Contrast Ratio	500:1	300:1	500:1
	Backlight Type	LED	LED	LED
	Backlight Life Time	30,000 hr	30,000 hr	30,000 hr
Touch Panel	Type	4-wire Resistive Type		
Memory	Storage (MB)	128	128	128
	RAM (MB)	64	64	64
	Processor	RISC 400MHz	RISC 400MHz	RISC 400MHz
I/O Port	SD Card Slot	N/A	N/A	N/A
	USB Host	N/A	N/A	USB 1.1 x 1
	USB Client	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1
	Ethernet	N/A	N/A	N/A
	COM Port	COM1 (RS232,RS485 2W/4W) COM3 (RS485 2W)	COM1 (RS232,RS485 2W/4W)	COM1 (RS232 / RS485 2W/4W), COM2 (RS232), COM3 (RS232 / RS485 2W)
	Audio	N/A	N/A	N/A
	RTC	N/A	Yes	Yes
Power	Input Power	24±20% VDC	24±20% VDC	24±20% VDC
	Power Consumption	250mA	250mA	250mA
	Panel Cutout (mm)	119x93	192x138	192x138
	Weight (kg)	0.3	0.85	0.85

widescreen



widescreen



widescreen

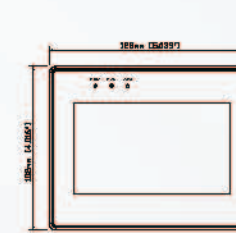


Model		MT8070iH	MT6100i	MT8100i	MT8104iH
Display	Display	7" TFT	10" TFT	10" TFT	10.4" TFT
	Resolution	800x480	800x480	800x480	800x600
	Brightness (cd/m ²)	300	350	350	300
	Contrast Ratio	500:1	300:1	300:1	500:1
	Backlight Type	LED	LED	LED	LED
	Backlight Life Time	30,000 hr	30,000 hr	30,000 hr	30,000 hr
Touch Panel	Type	4-wire Resistive Type			
Memory	Storage (MB)	128	128	128	128
	RAM (MB)	64	64	64	64
	Processor	RISC 400MHz	RISC 400MHz	RISC 400MHz	RISC 400MHz
I/O Port	SD Card Slot	Yes	Yes	Yes	Yes
	USB Host	USB 1.1 x 1	USB 1.1 x 1	USB 1.1 x 1	USB 1.1 x 1
	USB Client	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1
	Ethernet	10/100 Base-T	N/A	10/100 Base-T	10/100 Base-T
	COM Port	COM1 (RS232 / RS485 2W/4W), COM2 (RS232), COM3 (RS232 / RS485 2W)			
	Audio	Yes	N/A	Yes	Yes
	RTC	Yes	Yes	Yes	Yes
Power	Input Power	24±20% VDC	24±20% VDC	24±20% VDC	24±20% VDC
	Power Consumption	250mA	300mA	300mA	300mA
	Panel Cutout (mm)	192x138	259x201	259x201	259x201
	Weight (kg)	0.85	1.4	1.4	1.6

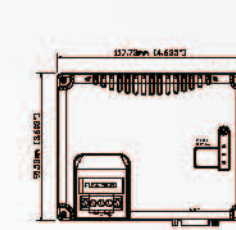


	Model	MT8104XH	MT8121X	MT8150X
Display	Display	10.4" TFT	12.1" TFT	15" TFT
	Resolution	800x600	800x600	1024x768
	Brightness (cd/m ²)	400	400	350
	Contrast Ratio	400:1	500:1	550:1
	Backlight Type	LED	CCFL x 2	CCFL x 2
	Backlight Life Time	30,000 hr	50,000 hr	50,000 hr
Touch Panel	Type	4-wire Resistive Type		
Memory	Storage (MB)	256	256	256
	RAM (MB)	256	256	256
	Processor	CISC 500MHz	CISC 500MHz	CISC 500MHz
I/O Port	SD Card Slot	Yes	Yes	Yes
	USB Host	USB 2.0 x 2	USB 2.0 x 2	USB 2.0 x 2
	USB Client	N/A	N/A	N/A
	Ethernet	10/100 Base-T	10/100 Base-T	10/100 Base-T
	COM Port	COM1 (RS232 / RS485 2W/4W), COM2 (RS232), COM3 (RS232 / RS485 2W)		
	Audio	Audio Line Out x 1 / MIC In x 1		
	RTC	Yes	Yes	Yes
Power	Input Power	24±10% VDC	24±10% VDC	24±10% VDC
	Power Consumption	1.25A	1.25A	1.6A
	Panel Cutout (mm)	259x201	305x231	352x279
	Weight (kg)	1.6	2.1	2.9

MT6050i



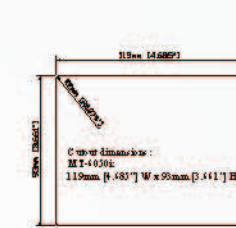
Front View



Rear View

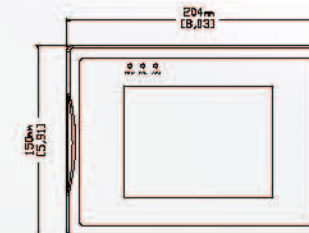


Bottom View

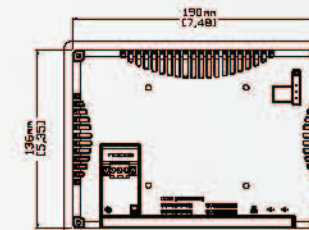


Panel Cutout

MT6056i



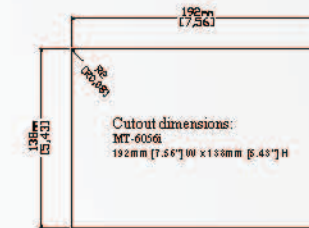
Front View



Rear View

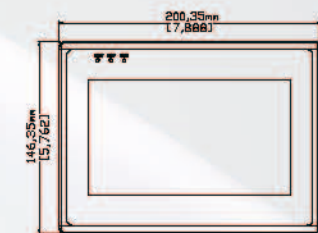


Bottom View

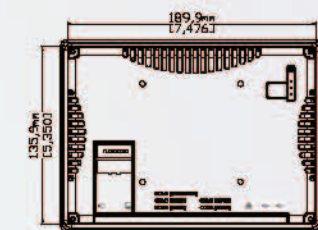


Panel Cutout

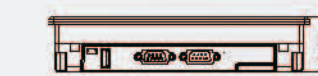
MT6070iH



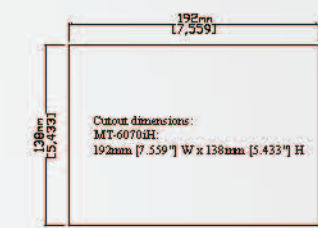
Front View



Rear View

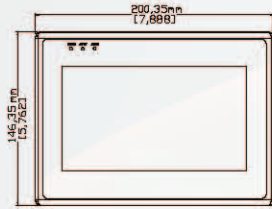


Bottom View



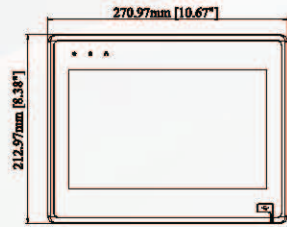
Panel Cutout

MT8070iH



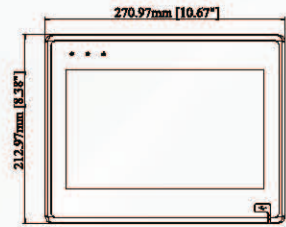
Front View

MT6100i



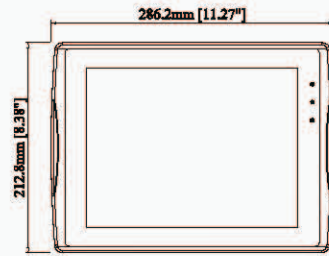
Front View

MT8100i



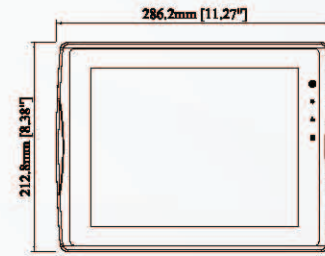
Front View

MT8104iH



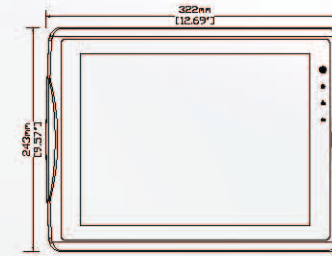
Front View

MT8104XH



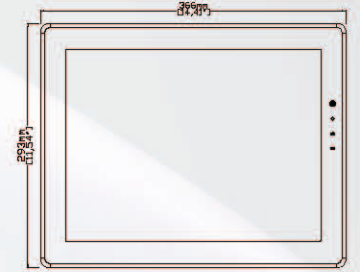
Front View

MT8121X

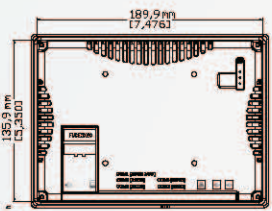


Front View

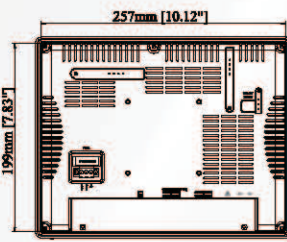
MT8150X



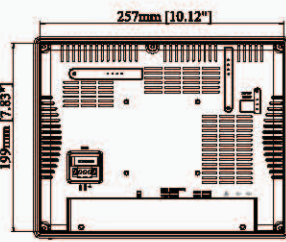
Front View



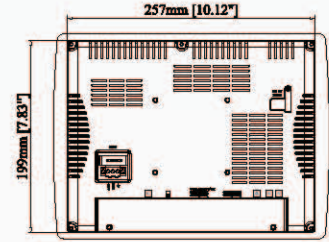
Rear View



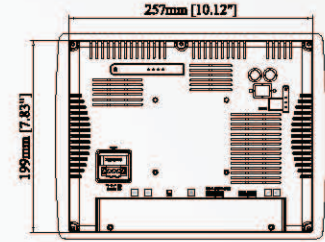
Rear View



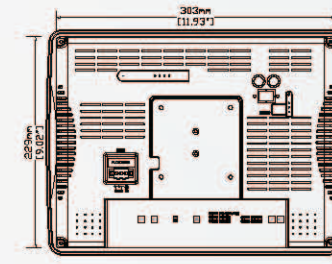
Rear View



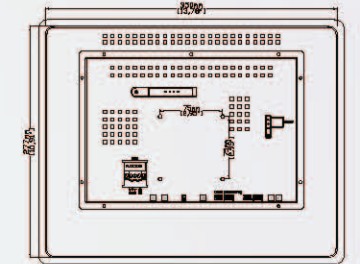
Rear View



Rear View



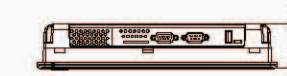
Rear View



Rear View



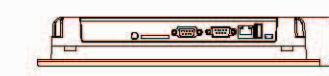
Bottom View



Bottom View



Bottom View



Bottom View



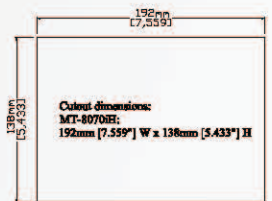
Bottom View



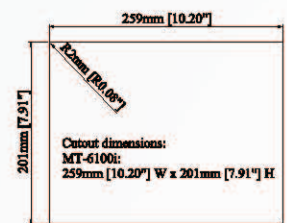
Bottom View



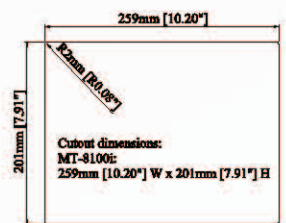
Bottom View



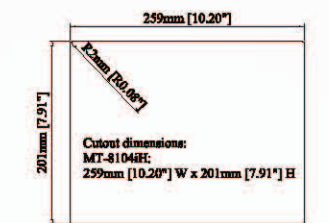
Panel Cutout



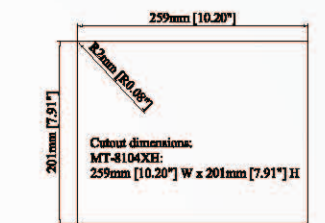
Panel Cutout



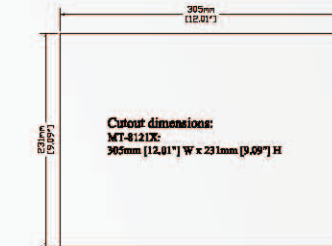
Panel Cutout



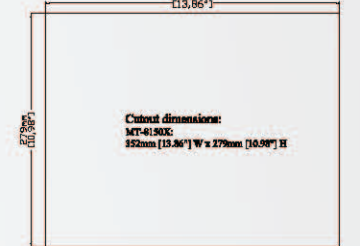
Panel Cutout



Panel Cutout



Panel Cutout



Panel Cutout