WEINTEK HMI

Professionals in Human Machine Interface

WEINTEK

Performance, Design, and Versatility

MT8000iE/XE · mTV Series

Ultra-slim form factor

Enables HMI can be installed in any industrial control environment.

Built-in Wi-Fi

802.11 b/g/n wireless communication standards. (MT8103iE)

Power isolation protection

Effectively avoids surges and ensures the reliability of HMI. (MT8050iE/ MT8071iE/ MT8073iE/ MT8102iE/ MT8103iE)

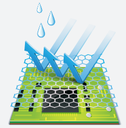
Dual Ethernet ports

Dual Ethernet ports offers you to set up WAN/LAN or two different LAN/LAN network configurations. (MT8073iE)

Equipped with powerful Cortex A8 600 MHz CPU

Not only the MT8000iE Series performs fast booting speed and JPEG display speed, but also greatly improves the communication speed between HMI and PLC.

Provides the most common sizes of HMIs in industrial control applications



PCB coating protection

Increases the strength of damp-proof, dust-proof, and corrosion resistance in any harsh environment.

Built-in isolated RS-485

Effectively avoids the ground potential difference problem and ensures your HMI endurable in any complicated grounding environment. (MT8070iE)

- COM [RS-485] supports MPI 187.5K.
- All iE Series models comply with IP65 rating and CE testing standards.
- Configuration software, EasyBuilder Pro offers more than 300 drivers for Weintek HMI to connect with various and numerous controllers.

iE Series

iE Series, easily installed in any industrial control environment

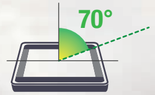
- Ultra-slim form factor and new color design.
- Isolated RS-485 and PCB coating protections.

Dual Ethernet ports

Dual Ethernet ports offers you to set up WAN/LAN or two different LAN/LAN network configurations. (MT8092XE)

Silver side

Elegant silver side and streamlined styling form factor shows aesthetic sense.
(MT8090XE/ MT8092XE)



Wide viewing angle

Up to 70° wide viewing angle makes HMI monitoring less limited.
(MT8090XE/ MT8092XE)

Power isolation protection

Effectively avoids surges and ensures the reliability of HMI.

Equipped with powerful Cortex A8 1GHz CPU

Sets benchmark records of HMI performance, such as booting speed, JPEG file display speed, and speed of PLC data read/write. Greatly improves graphics performance and database operation efficiency.

Provides the most popular sizes of HMIs in large and complicated industrial applications

XE Series

XE Series, optimal for industrial control application in various harsh environments

- 9.7" high-resolution (1024 x 768 pixels) HMI.
- 12" /15" large sizes of HMIs with aluminum enclosure.
- Isolated RS-485, PCB coating, and power isolation protections.

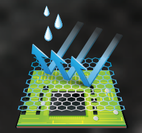
High-resolution HMIs (9.7", 12", 15")

Displays the most detailed information and objects with high-resolution (1024x768) LCD.

Aluminum Enclosure

Greatly improves durability and reliability.
(MT8121XE/MT8150XE)

PCB coating protection

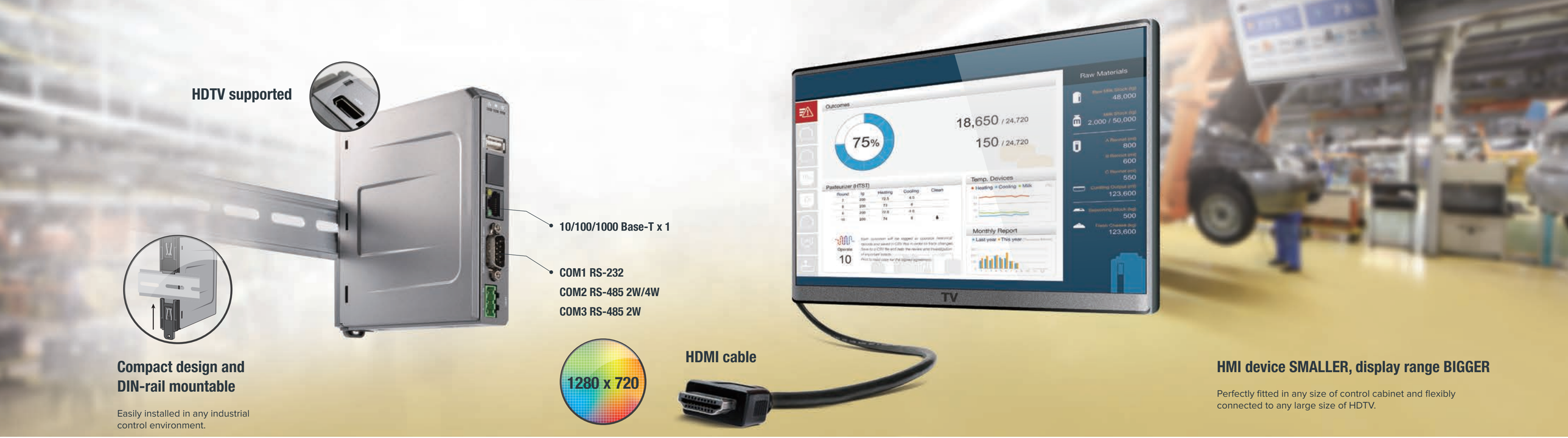


Increases the strength of damp-proof, dust-proof, and corrosion resistance in any harsh environment.

Built-in isolated RS-485

Effectively avoids the ground potential difference problem and ensures your HMI endurable in any complicated grounding environment.
(MT8121XE/MT8150XE)

- COM [RS-485] supports MPI 187.5K.
- All XE Series models comply with IP65/IP66(MT8121XE) rating and CE testing standards.
- Configuration software, EasyBuilder Pro offers more than 300 drivers for Weintek HMI to connect with various and numerous controllers.



Compact design and DIN-rail mountable

Easily installed in any industrial control environment.

HMI device SMALLER, display range BIGGER

Perfectly fitted in any size of control cabinet and flexibly connected to any large size of HDTV.

mTV Series

mTV Series, creates a new HMI vision

- HDMI output allows displaying projects on any size of TV monitors with the HDMI interface.
- PCB coating and power isolation protections.

- COM [RS-485] supports MPI 187.5K.
- mTV Series comply with CE testing standards.
- Configuration software, EasyBuilder Pro offers more than 300 drivers for Weintek HMI to connect with various and numerous controllers.

EasyBuilder Pro - Innovators in Software

EasyBuilder Pro features in extremely intuitive user interface and satisfies diverse application demands such as data/event log, recipe database, alarm handling, tag management, macro computing and pass-through for editing data of a remote PLC. During the project development phase, on-line simulation greatly facilitates verification of parameters.
EasyBuilder Pro is the most comprehensive HMI configuration software.

Support more than 300 communication drivers

EasyBuilder Pro supports more than 300 communication drivers to connect to different brand of PLC, Servo, Inverter, Temperature controller, Barcode scanner, and etc.

Excellent User Interface

EasyBuilder Pro walks you through the HMI project editing process all with ease, and accomplishes the project managements, such as privilege management, device management, file management, or log management.

Extensive Graphics Libraries

EasyBuilder Pro provides sufficient high-quality graphics libraries with a wide selection of different industrial applications such as packing machine, processing factory, water treatment plant, and many more that greatly reduce your project display designing time.

EasyBuilder Pro

Easy to Use Configuration Software

With talented R&D team and experienced in HMI manufacturing, Weintek has developed the most advanced and easy to use configuration software in industrial automation field.

- Extremely intuitive project editing experience.
- Connect with over 300 communication drivers.

Versatile Application Tools

Weintek Software R&D Center develops various stand-alone application tools, such as Recipe Editor, EasyDiagnoser, EasySimulator, EasyConverter, and etc. These tools can help you analyze different data records and troubleshoot abnormal issues for your application.

Utility Manager

EasyDiagnoser

EasyPrinter

AB Data Type Editor

EasySimulator

EasyAccess

Pass Through

VNC

EasyWatch

EasyConverter

Database Editor

Recipe Editor

The Comparison of Software Features Between Different Models

Software Feature

	mTV-100	MT8050iE	MT8070iE	MT8071iE	MT8073iE	MT8102iE	MT8103iE	MT8090XE	MT8092XE	MT8121XE	MT8150XE
Project & Firmware Size	64MB	22.5MB	22.5MB	22.5MB	22.5MB	22.5MB	22.5MB	64MB	64MB	64MB	64MB
History Data Size	64MB	16MB	16MB	16MB	16MB	16MB	16MB	120MB	120MB	64MB	64MB
Embed Pictures in Project	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Embed PLC Tag Information in Project	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Project Protection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Enhanced Security	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Recipe Database / View Database	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Operation Log / Operation View	N/A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
e-Mail	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Media Player	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓
Audio Output	√*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Video Input	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
USB CAM	✓	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓
Flow Block	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Combo Button	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Circular Trend Display	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Picture View	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CAN Bus	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	N/A	N/A
VNC Server	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VNC Viewer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Download Project via USB Cable	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓
MQTT(Publisher)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MQTT(Subscriber)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OPC UA Server	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OPC UA Client	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Watchdog	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

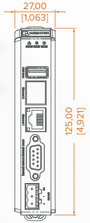
* HDMI Audio Output

mTV Series

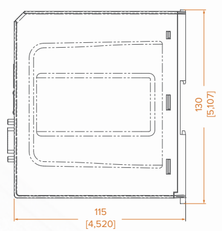
Specification	Model	mTV-100
Display	Display	Display to HDTV
	Resolution	HDTV supported
	Brightness (cd/m²)	HDTV supported
	Contrast Ratio	HDTV supported
	Backlight Type	HDTV supported
	Backlight Life Time	HDTV supported
	Colors	HDTV supported
Memory	Flash	256 MB
	RAM	256 MB
Processor		32 bits RISC Cortex-A8 600MHz
I/O Port	SD Card Slot	SD/SDHC
	USB Host	USB 2.0 x 1
	Ethernet	10/100/1000 Base-T x 1
	COM Port	COM 1: RS-232 COM2: RS-485 2W/4W COM3: RS-485 2W
	HDMI	Resolution 1280 x 720
	Audio Output	HDMI Audio Output
RTC		Built-in
Power	Input Power	24±20%VDC
	Power Isolation	Built-in
	Power Consumption	230mA@24VDC
	Voltage Resistance	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ at 500VDC
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Specification	PCB Coating	Yes
	Enclosure	Plastic
	Dimensions WxHxD	130 x 115 x 27 mm
	Weight	Approx. 0.18 kg
	Mount	35mm DIN rail mounting
Environment	Protection Structure	IP20
	Storage Temperature	-20° - 70°C (-4° - 158°F)
	Operating Temperature	-20° - 55°C (-4° - 131°F)
	Relative Humidity	10% - 90% (non-condensing)
Certificate	CE	CE marked
	UL	cULus Listed
Software		EasyBuilder Pro

Dimensions

mTV-100



Front View



Side View

Top View

Bottom View

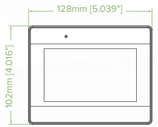
iE Series

Specification	Model	MT8050iE	MT8070iE / MT8071iE	MT8073iE	MT8102iE / MT8103iE NEW
Display	Display	4.3" TFT	7" TFT	7" TFT	10.1" TFT
	Resolution	480 x 272	800 x 480	800 x 480	1024 x 600
	Brightness (cd/m²)	400	350 / 400	400	350
	Contrast Ratio	500:1	500:1	500:1	500:1
	Backlight Type	LED	LED	LED	LED
	Backlight Life Time	>30,000 hrs.	>30,000 hrs.	>30,000 hrs.	>50,000 hrs.
	Colors	16.7M	16M / 16.7M	16.7M	16.7M
	LCD Viewing Angle (T/B/L/R)	50/30/50/50	70/60/70/70 / 70/50/70/70	70/50/70/70	60/60/70/70
Touch Panel	Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%
Memory	Flash	128 MB	128 MB	128 MB	128 MB
	RAM	128 MB	128 MB	128 MB	128 MB
Processor		32 bits RISC Cortex-A8 600MHz	32 bits RISC Cortex-A8 600MHz	32 bits RISC Cortex-A8 600MHz	32 bits RISC Cortex-A8 600MHz
I/O Port	USB Host	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 x 1	10/100 Base-T x 1	10/100/1000 Base-T x 2	10/100 Base-T x 1
	WiFi	N/A	N/A	N/A	N/A / IEEE 802.11 b/g/n, WPA-PSK/WPA2-PSK Encryption
	COM Port	COM 1: RS-232/RS-485 2W/4W COM3: RS-485 2W	COM 1: RS-232/ RS-485 2W/4W COM3: RS-485 2W / COM1: RS-232 COM2: RS-485 2W/4W COM3: RS-485 2W	COM 1: RS-232 COM2: RS-485 2W/4W COM3: RS-232/RS-485 2W*	Con.A: COM2: RS-485 2W/4W, COM3: RS-485 2W Con.B: COM 1: RS-232/ COM3: RS-232*
	Isolated RS-485	N/A	Yes / N/A	N/A	N/A
RTC		Built-in	Built-in	Built-in	Built-in
Power	Input Power	24±20%VDC	24±20%VDC	24±20%VDC	24±20%VDC
	Power Isolation	Built-in	N/A / Built-in	Built-in	Built-in
	Power Consumption	400mA@24VDC	350mA@24VDC / 450mA@24VDC	600mA@24VDC	650mA@24VDC
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ at 500VDC	Exceed 50MΩ at 500VDC	Exceed 50MΩ at 500VDC	Exceed 50MΩ at 500VDC
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
	PCB Coating	Yes	Yes	Yes	Yes
Specification	Enclosure	Plastic	Plastic	Plastic	Plastic
	Dimensions WxHxD	128 x 102 x 32 mm	200.3 x 146.3 x 34 mm	200.3 x 146.3 x 34 mm	271 x 213 x 36.4 mm
	Panel Cutout	119 x 93 mm	192 x 138 mm	192 x 138 mm	260 x 202 mm
	Weight	Approx. 0.25 kg	Approx. 0.6 kg	Approx. 0.6 kg	Approx. 1 kg
	Mount	Panel mount	Panel mount	Panel mount	Panel mount
Environment	Protection Structure	UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel / NEMA4 / IP65 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel	NEMA4 / IP65 Compliant Front Panel / UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel
	Storage Temperature	-20° - 60°C (-4° - 140°F)	-20° - 60°C (-4° - 140°F)	-20° - 60°C (-4° - 140°F)	-20° - 60°C (-4° - 140°F)
	Operating Temperature	0° - 50°C (32° - 122°F)	0° - 50°C (32° - 122°F)	0° - 50°C (32° - 122°F)	0° - 50°C (32° - 122°F)
	Relative Humidity	10% - 90% (non-condensing)	10% - 90% (non-condensing)	10% - 90% (non-condensing)	10% - 90% (non-condensing)
Certificate	CE	CE marked	CE marked	CE marked	CE marked
	UL	cULus Listed	cULus Listed	cULus Listed	cULus Listed* / cULus Listed
Software		EasyBuilder Pro	EasyBuilder Pro	EasyBuilder Pro Built-in EasyAccess 2.0	EasyBuilder Pro / EasyBuilder Pro Built-in EasyAccess 2.0

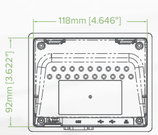
* MT8073iE/ MT8102iE/ MT8103iE: Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.
* MT8102iE: For customers who require UL, please order MT8102iEU. (MT8102iE is not UL listed.)

Dimensions

MT8050iE

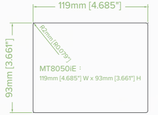


Front View



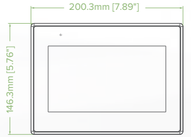
Rear View

Bottom View

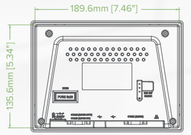


Cutout Dimensions

MT8070iE / MT8071iE



Front View

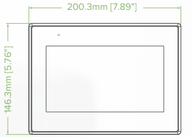


Rear View

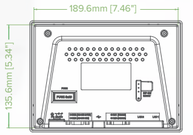
Bottom View

Cutout Dimensions

MT8073iE

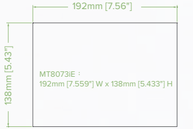


Front View



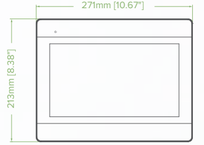
Rear View

Bottom View

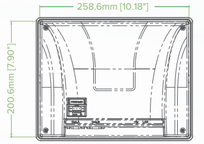


Cutout Dimensions

MT8102iE / MT8103iE NEW

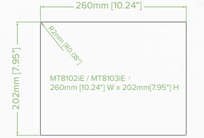


Front View



Rear View

Bottom View



Cutout Dimensions

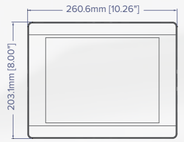
XE Series

Specification	Model	MT8090XE	MT8092XE	MT8121XE	MT8150XE
Display	Display	9.7" TFT	9.7" TFT	12.1" TFT	15" TFT
	Resolution	1024 x 768	1024 x 768	1024 x 768	1024 x 768
	Brightness (cd/m²)	350	350	500	400
	Contrast Ratio	500:1	500:1	700:1	700:1
	Backlight Type	LED	LED	LED	LED
	Backlight Life Time	>30,000 hrs.	>30,000 hrs.	>50,000 hrs.	>50,000 hrs.
	Colors	262K	262K	16.2M	16.2M
	LCD Viewing Angle (T/B/L/R)	60/70/70/70	60/70/70/70	80/80/80/80	70/70/80/80
Touch Panel	Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%
Memory	Flash	512 MB	512 MB	256 MB	256 MB
	RAM	256 MB	256 MB	256 MB	256 MB
Processor		32 bits RISC Cortex-A8 1GHz	32 bits RISC Cortex-A8 1GHz	32 bits RISC Cortex-A8 1GHz	32 bits RISC Cortex-A8 1GHz
I/O Port	SD Card Slot	N/A	N/A	SD/SDHC	SD/SDHC
	USB Host	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1
	USB Client	N/A	N/A	USB 2.0 x 1	USB 2.0 x 1
	Ethernet	10/100 Base-T x 1	10/100/1000 Base-T x 2	10/100 Base-T x 1	10/100 Base-T x 1
	COM Port	Con.A: COM2: RS-485 2W/4W, COM3: RS-485 2W Con.B: COM1: RS-232	Con.A: COM2: RS-485 2W/4W, COM3: RS-485 2W Con.B: COM1: RS-232, COM3: RS-232*	COM 1: RS-232/RS-485 2W/4W COM3: RS-485 2W	COM 1: RS-232/RS-485 2W/4W COM3: RS-485 2W
	Isolated RS-485	N/A	N/A	Yes	Yes
	CAN Bus	N/A	Yes	N/A	N/A
RTC		Built-in	Built-in	Built-in	Built-in
Power	Input Power	24±20%VDC	24±20%VDC	24±20%VDC	24±20%VDC
	Power Isolation	Built-in	Built-in	Built-in	Built-in
	Power Consumption	500mA@24VDC	650mA@24VDC	800mA@24VDC	1000mA@24VDC
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ at 500VDC	Exceed 50MΩ at 500VDC	Exceed 50MΩ at 500VDC	Exceed 50MΩ at 500VDC
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Specification	PCB Coating	Yes	Yes	Yes	Yes
	Enclosure	Plastic	Plastic	Aluminum	Aluminum
	Dimensions WxHxD	260.6 x 203.1 x 36.5 mm	260.6 x 203.1 x 36.5 mm	317 x 244 x 46 mm	366 x 293 x 57 mm
	Panel Cutout	250 x 192 mm	250 x 192 mm	305 x 231 mm	352 x 279 mm
	Weight	Approx. 0.85 kg	Approx. 0.85 kg	Approx. 2.1 kg	Approx. 2.75 kg
	Mount	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 75 x 75 mm
Environment	Protection Structure	NEMA4 / IP65 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel
	Storage Temperature	-20° - 60°C (-4° - 140°F)	-20° - 60°C (-4° - 140°F)	-20° - 60°C (-4° - 140°F)	-20° - 60°C (-4° - 140°F)
	Operating Temperature	0° - 50°C (32° - 122°F)	0° - 50°C (32° - 122°F)	0° - 50°C (32° - 122°F)	0° - 50°C (32° - 122°F)
	Relative Humidity	10% - 90% (non-condensing)	10% - 90% (non-condensing)	10% - 90% (non-condensing)	10% - 90% (non-condensing)
Certificate	CE	CE marked	CE marked	CE marked	CE marked
	UL	N/A	cULus Listed	cULus Listed	cULus Listed
Software		EasyBuilder Pro	EasyBuilder Pro Built-in EasyAccess 2.0	EasyBuilder Pro	EasyBuilder Pro

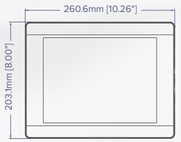
* MT8092XE: Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

Dimensions

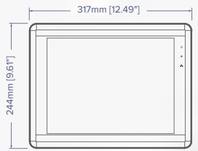
MT8090XE	MT8092XE	MT8121XE	MT8150XE



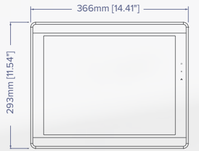
Front View



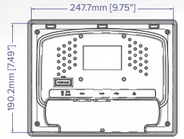
Front View



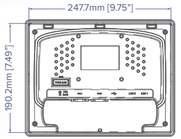
Front View



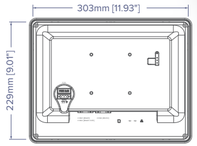
Front View



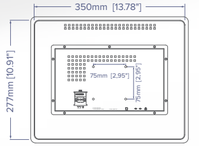
Rear View



Rear View



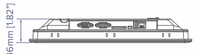
Rear View



Rear View

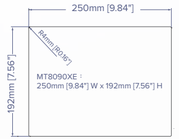
Bottom View

Bottom View

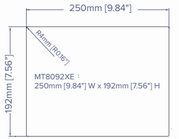


Bottom View

Bottom View



Cutout Dimensions



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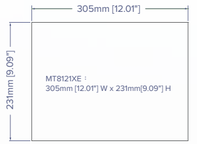

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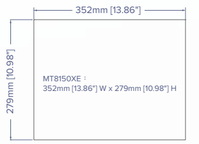

Cutout Dimensions

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