



Performance, Design, and Versatility  
**MT8000iE • XE • mTV • iP Series**



### Ultra-slim form factor

Enables HMI can be installed in any industrial control environment.



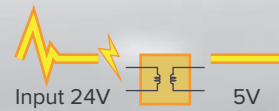
### Dual Ethernet ports

Dual Ethernet ports offers you to set up WAN/LAN or two different LAN/LAN network configurations. (MT8073iE/ MT8053iE)



### 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/ MT8053iE/ MT8071iE/ MT8073iE/ MT8102iE/ MT8103iE)

# 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.

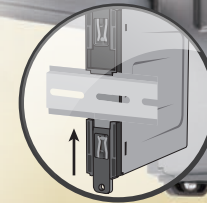
HDTV supported



# 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.



### Compact design and DIN-rail mountable

Easily installed in any industrial control environment.



HDMI™ cable

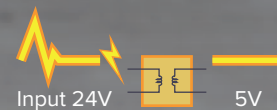
- 10/100/1000 Base-T x 1
- COM1 RS-232
- COM2 RS-485 2W/4W
- COM3 RS-485 2W



### HMI device SMALLER, display range BIGGER

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

\*The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

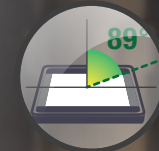


### Power isolation protection

Effectively avoids surges and ensures the reliability of HMI.

### Silver side

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



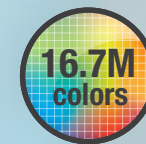
### Wide viewing angle

Up to 89° wide viewing angle makes HMI monitoring less limited. (MT8121XE3/ MT8150XE)

# 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.

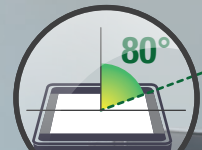


### Advanced Visualization

16.7-million colors display.

### High Resolution

MT8102iP features a high-resolution 1024 x 600 LCD, and wide viewing angle (T: 70° / B: 70° / L: 80° / R: 80°).



10.1" MT8102iP

# iP Series

## New Choice, Unprecedented Experience!

- 10.1" high resolution LCD (1024 x 600 pixels) and 16.7M colors display.
- Supports for more than 300 different brands of PLC and controllers.

4.3" MT8051iP



7" MT8071iP



# The Comparison of Software Features Between Different Models



Software Feature				
	mTV Series	iE Series	XE Series	iP Series
Project & Firmware Size Limit	64MB	22.5MB	64MB	22.5MB
History Size Limit	64MB	16MB	64/ 120MB	16MB
Project Protection	●	●	●	●
USB Cable Download			MT8121XE1 MT8121XE3 MT8150XE	
Pictures/Shape Library Embedded in Project	●	●	●	●
PLC TAG Embedded in Project	●	●	●	●
e-Mail	●	●	●	
Enhanced Security Mode	●	●	●	
VNC Server	●	●	●	●
Audio Output	● (HDMI)			
CAN Bus			●	
Circular Trend Display	●	●	●	
Combo Button	●	●	●	
Media Player			●	
MQTT(Publisher / Subscriber)	●	●	●	
Operation Log	●	●	●	
OPC UA Client	●	●	●	
Picture Viewer	●	●	●	
Recipe Database	●	●	●	
USB Camera	●		●	
IP Camera			●	
VNC Viewer	●	●	●	
Watchdog	●	●	●	●
EasyAccess 2.0	Optional	Optional MT8053iE/MT8073iE/ MT8103iE Built-in License	Optional MT8092XE Built-in License	Optional

**mTV Series :** mTV-100

**iE Series :** MT8050iE, MT8053iE, MT8070iE, MT8071iE, MT8073iE, MT8102iE, MT8103iE

**XE Series :** MT8090XE, MT8092XE, MT8121XE1, MT8121XE3, MT8150XE

**iP Series :** MT8051iP, MT8071iP, MT8102iP

## mTV Series



	Model	mTV-100
<b>Display</b>	Display	Display to HDTV
	Resolution	HDTV Supported
	Brightness (cd/ m <sup>2</sup> )	HDTV Supported
	Contrast Ratio	HDTV Supported
	Backlight Type	HDTV Supported
	Backlight Life Time	HDTV Supported
	Colors	HDTV Supported
<b>Memory</b>	Flash	256 MB
	RAM	256 MB
<b>Processor</b>		32-bit RISC 600MHz
<b>I/O Port</b>	SD Card Slot	SD/SDHC
	USB Host	USB 2.0 x 1
	Ethernet	10/100/1000 Base-T x 1
	COM Port	COM1: RS-232 COM2: RS-485 2W/4W COM3: RS-485 2W
	HDMI	Resolution 1280 x 720
	Audio Output	HDMI Audio Output
	<b>RTC</b>	
<b>Power</b>	Input Power	24±20%VDC
	Power Isolation	Built-in
	Power Consumption	230mA@24VDC
	Voltage Resistance	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
<b>Specification</b>	PCB Coating	Yes
	Enclosure	Plastic
	Dimensions WxHxD	27 x 130 x 115 mm
	Weight	Approx. 0.18 kg
	Mount	35 mm DIN rail mounting
<b>Environment</b>	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)
<b>Certificate</b>	CE	CE marked
	UL	cULus Listed
<b>Software</b>		EasyBuilder Pro EasyAccess 2.0 (Optional)



Model		MT8050iE	MT8053iE	MT8070iE	MT8071iE	MT8073iE	MT8102iE	MT8103iE
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/ m <sup>2</sup> )	400		400		400		350
	Contrast Ratio	500: 1		800: 1		800: 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		16.7M		16.7M		16.7M
	LCD Viewing Angle (T/B/L/R)	50/70/70/70		80/60/80/80		80/60/80/80		70/70/80/80
	Pixel Pitch (mm)	0.198(H) x 0.198(V)		0.1926(H) x 0.179(V)		0.1926(H) x 0.179(V)		0.2175(H) x 0.2088(V)
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-bit RISC 600MHz		32-bit RISC 600MHz		32-bit RISC 600MHz		32-bit RISC 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	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 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
	Wi-Fi	N/A		N/A		N/A		IEEE 802.11 b/g/n 802.11b: max 19.76 dBm 802.11g: max 14.07 dBm 802.11n: max 15.41 dBm
	COM Port	COM1: RS-232/RS-485 2W/4W COM3: RS-485 2W		COM1: RS-232/RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 COM2: RS-485 2W/4W COM3: RS-232/RS-485 2W*2	Con.A: COM1 RS-485 2W, COM2 RS-485 2W/4W, COM3 RS-485 2W/4W*1 Con.B: COM1 RS-232 / COM3 RS-232*2	
	RS-485 Dual Isolation	N/A		Yes	N/A	N/A		N/A
RTC		Built-in		Built-in		Built-in		Built-in
Power	Input Power	24±20%VDC	22~28VDC	24±20%VDC		24±20%VDC		24±20%VDC
	Power Isolation	Built-in		N/A		Built-in		Built-in
	Power Consumption	400mA@24VDC	450mA@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 @ 500VDC		Exceed 50MΩ @ 500VDC		Exceed 50MΩ @ 500VDC		Exceed 50MΩ @ 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		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		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 (UL 61010-2-201)*3
	ATEX	N/A		N/A		ATEX Zone 2/22 Category 3 G/D		N/A
Software		EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0	EasyBuilder Pro EasyAccess 2.0 (Optional)		EasyBuilder Pro Built-in EasyAccess 2.0		EasyBuilder Pro EasyAccess 2.0 (Optional)

\*1 MT8102iE/ MT8103iE: COM3 RS-485 4W will not be available when COM1 RS-485 2W is used. ( MT8103iE shipped after 2018/10 support COM1: RS485 2W & COM3: RL485 4W. Please use EasyBuilder Pro V6.01.01 or later versions.)

\*2 MT8073iE/ MT8102iE/ MT8103iE: Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

\*3 MT8102iE: For customers who require UL, please order MT8102iEU. (MT8102iE is not UL listed.)

# XE Series



Model		MT8090XE	MT8092XE	MT8121XE1	MT8121XE3	MT8150XE
Display	Display	9.7" TFT	9.7" TFT	12.1" TFT	12.1" IPS	15" IPS
	Resolution	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768
	Brightness (cd/ m <sup>2</sup> )	350	350	500	500	400
	Contrast Ratio	500: 1	500: 1	700: 1	1000: 1	1000: 1
	Backlight Type	LED	LED	LED	LED	LED
	Backlight Life Time	> 30,000 hrs.	> 30,000 hrs.	> 50,000 hrs.	> 30,000 hrs.	> 50,000 hrs.
	Colors	262K	262K	16.2M	16.7M	16.2M
	LCD Viewing Angle (T/B/L/R)	60/70/70/70	60/70/70/70	80/80/80/80	89/89/89/89	89/89/89/89
	Pixel Pitch (mm)	0.192(H) x 0.192(V)	0.192(H) x 0.192(V)	0.24(H) x 0.24(V)	0.24(H) x 0.24(V)	0.297(H) x 0.297(V)
	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%	Active Area Length(X)±2%, Width(Y)±2%
Memory	Flash	512 MB	512 MB	256 MB	256 MB	256 MB
	RAM	256 MB	256 MB	256 MB	256 MB	256 MB
Processor		32-bit RISC 1GHz	32-bit RISC 1GHz	32-bit RISC 1GHz	32-bit RISC 1GHz	32-bit RISC 1GHz
I/O Port	SD Card Slot	N/A	N/A	SD/SDHC	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 2.0 x 1
	USB Client	N/A	N/A	USB 2.0 x 1	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	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*	COM1: RS-232/RS-485 2W/4W, COM3: RS-485 2W	COM1: RS-232/RS-485 2W/4W, COM3: RS-485 2W	COM1: RS-232/RS-485 2W/4W COM3: RS-485 2W
	RS-485 Dual Isolation	N/A	N/A	Yes	Yes	Yes
	CAN Bus	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	24±20%VDC
	Power Isolation	Built-in	Built-in	Built-in	Built-in	Built-in
	Power Consumption	500mA@24VDC	650mA@24VDC	800mA@24VDC	1.5A@24VDC	1.2A@24VDC
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 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)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Specification	PCB Coating	Yes	Yes	Yes	Yes	Yes
	Enclosure	Plastic	Plastic	Aluminum	Plastic	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	317 x 243 x 41 mm	366 x 293 x 57 mm
	Panel Cutout	250 x 192 mm	250 x 192 mm	305 x 231 mm	305 x 231 mm	352 x 279 mm
	Weight	Approx. 0.85 kg	Approx. 0.85 kg	Approx. 2.1 kg	Approx. 1.7 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	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	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)	-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)	0° ~ 50° C (32° ~ 122° F)
	Relative Humidity	10% ~ 90% (non-condensing)	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	CE marked
	UL	N/A	cULus Listed	cULus Listed	N/A	cULus Listed
	ATEX	ATEX Zone 2/22 Category 3 G/D	ATEX Zone 2/22 Category 3 G/D	N/A	N/A	ATEX Zone 2/22 Category 3 G/D
Software		EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0	EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional)

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

# iP Series



Model		MT8051iP	MT8071iP	MT8102iP
Display	Display	4.3" TFT	7" TFT	10.1" TFT
	Resolution	480 x 272	800 x 480	1024 x 600
	Brightness (cd/ m <sup>2</sup> )	400	300	350
	Contrast Ratio	500: 1	500: 1	500: 1
	Backlight Type	LED	LED	LED
	Backlight Life Time	>30,000 hrs.	>30,000 hrs.	50,000 hrs.
	Colors	16.7M	16.7M	16.7M
	LCD Viewing Angle (T/B/L/R)	50/70/70/70	70/50/70/70	70/70/80/80
Pixel Pitch (mm)	0.198(H) x 0.198(V)	0.1926(H) x 0.179(V)	0.2175(H) x 0.2088(V)	
Touch Panel	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%
Memory	Flash	128 MB	128 MB	128 MB
	RAM	128 MB	128 MB	128 MB
Processor		32-bit RISC 600MHz	32-bit RISC 600MHz	32-bit RISC 528MHz
I/O Port	USB Host	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 Base-T x 1
	COM Port	COM1: RS-232/RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232, COM2: RS-485 2W/4W	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W*
RTC		Built-in (CR2032 3V lithium battery.)	Built-in	Built-in
Power	Input Power	10.5~28VDC	10.5~28VDC	10.5~28VDC
	Power Isolation	Built-in	Built-in	Built-in
	Power Consumption	800mA@12VDC ; 400mA@24VDC	1A@12VDC ; 500mA@24VDC	1.3A@12VDC ; 650mA@24VDC
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 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)
Specification	Enclosure	Plastic	Plastic	Plastic
	Dimensions WxHxD	128 x 102 x 32 mm	200.4 x 146.5 x 34 mm	271 x 213 x 36.4 mm
	Panel Cutout	119 x 93 mm	192 x 138 mm	260 x 202 mm
	Weight	Approx. 0.25 kg	Approx. 0.52 kg	Approx. 1 kg
	Mount	Panel mount	Panel mount	Panel mount
Environment	Protection Structure	NEMA4 / IP65 Compliant Front Panel	NEMA4 / IP65 Compliant Front Panel	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)
	Operating Temperature	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)
Certificate	CE	CE marked	CE marked	CE marked
Software		EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional)

\* MT8102iP: Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

The Product's colors printed in this brochure may differ from those of the actual product.

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**RoHS** ISO 9001:2015

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