



MT8102iE



MT8070iE



MT8053iE



MT8090XE



MT8051iP



MT8072iP



MT8102iP



MT8121XE3

Performance, Design, and Versatility

MT8000iE · XE · iP Series



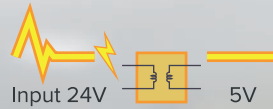
Ultra-slim form factor

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. (MT8053iE)



Power isolation protection

Effectively avoids surges and ensures the reliability of HMI. (MT8051iE/ MT8053iE/ MT8071iE/ MT8102iE)

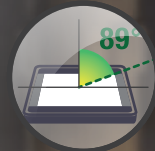
iE Series

iE Series, easily installed in any industrial control environment

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

Silver side

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



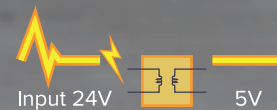
Wide viewing angle

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

XE Series

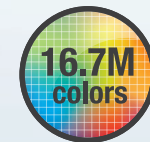
XE Series, optimal for industrial control application in various harsh environments

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



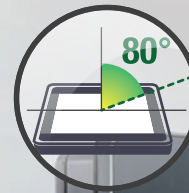
Power isolation protection

Effectively avoids surges and ensures the reliability of HMI.



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

7" MT8072iP

4.3" MT8051iP



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.

The Comparison of Software Features Between Different Models



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

iE Series : MT8051iE, MT8053iE, MT8070iE, MT8071iE, MT8102iE

XE Series : MT8090XE, MT8121XE3

iP Series : MT8051iP, MT8072iP, MT8102iP

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iE Series



Model		MT8051iE	MT8053iE	MT8070iE	MT8071iE	MT8102iE	
Display	Display	4.3" TFT	4.3" TFT	7" TFT	10.1" TFT		
	Resolution	480 x 272	480 x 272	800 x 480	1024 x 600		
	Brightness (cd/ m ²)	400	400	400	350		
	Contrast Ratio	500: 1	500: 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	50/70/70/70	80/60/80/80	70/70/80/80		
	Pixel Pitch (mm)	0.198(H) x 0.198(V)	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	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 Base-T x 1		
	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/RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 COM2: RS-485 2W/4W COM3: RS-485 2W	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	N/A	Yes	N/A	N/A	
RTC		Built-in	Built-in	Built-in	Built-in		
Power	Input Power	22~28VDC	22~28VDC	24±20%VDC	24±20%VDC		
	Power Isolation	Built-in	Built-in	N/A	Built-in	Built-in	
	Power Consumption	450mA@24VDC	450mA@24VDC	350mA@24VDC	450mA@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		
Specification	PCB Coating	Yes	Yes	Yes	Yes		
	Enclosure	Plastic	Plastic	Plastic	Plastic		
	Dimensions WxHxD	128 x 102 x 32 mm	128 x 102 x 32 mm	200.3 x 146.3 x 34 mm	271 x 213 x 36.4 mm		
	Panel Cutout	119 x 93 mm	119 x 93 mm	192 x 138 mm	260 x 202 mm		
	Weight	Approx. 0.25 kg	Approx. 0.25 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	UL Type 4X (indoor use only)*3/ 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° ~ 45° C (32° ~ 113° F)	0° ~ 45° C (32° ~ 113° 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)		
	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)		
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	N/A	ATEX Zone 2/22 Category 3 G/D	N/A	
Software	Weincloud	EasyAccess 2.0 (Optional)	EasyAccess 2.0 (Built-in)	EasyAccess 2.0 (Optional)	EasyAccess 2.0 (Optional)		

*1 MT8102iE: COM3 RS-485 4W will not be available when COM1 RS-485 2W is used.

*2 MT8102iE: 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	MT8121XE3
Display	Display	9.7" TFT	12.1" IPS
	Resolution	1024 x 768	1024 x 768
	Brightness (cd/ m ²)	350	500
	Contrast Ratio	500: 1	1000: 1
	Backlight Type	LED	LED
	Backlight Life Time	>30,000 hrs.	>30,000 hrs.
	Colors	262K	16.7M
	LCD Viewing Angle (T/B/L/R)	60/70/70/70	89/89/89/89
	Pixel Pitch (mm)	0.192(H) x 0.192(V)	0.24(H) x 0.24(V)
Touch Panel	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%
Memory	Flash	512 MB	256 MB
	RAM	256 MB	256 MB
Processor		32-bit RISC 1GHz	32-bit RISC 1GHz
I/O Port	SD Card Slot	N/A	SD/SDHC
	USB Host	USB 2.0 x 1	USB 2.0 x 1
	USB Client	N/A	USB 2.0 x 1
	Ethernet	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	COM1: RS-232/RS-485 2W/4W, COM3: RS-485 2W
	RS-485 Dual Isolation	N/A	Yes
	Audio Output	N/A (Supports USB Audio)	N/A (Supports USB Audio)
	RTC		Built-in
Power	Input Power	24±20%VDC	24±20%VDC
	Power Isolation	Built-in	Built-in
	Power Consumption	500mA@24VDC	1.5A@24VDC
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC
Specification	PCB Coating	Yes	Yes
	Enclosure	Plastic	Plastic
	Dimensions WxHxD	260.6 x 203.1 x 36.5 mm	317 x 243 x 41 mm
	Panel Cutout	250 x 192 mm	305 x 231 mm
	Weight	Approx. 0.85 kg	Approx. 1.7 kg
	Mount	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 75 x 75 mm
Environment	Protection Structure	NEMA4 / IP65 Compliant Front Panel	NEMA4 / IP65 Compliant Front Panel
	Storage Temperature	-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)
	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Certificate	CE	CE marked	CE marked
	ATEX	ATEX Zone 2/22 Category 3 G/D	N/A
Software	Weincloud	EasyAccess 2.0 (Optional)	EasyAccess 2.0 (Optional)

iP Series



Model		MT8051iP	MT8072iP	MT8102iP
Display	Display	4.3" TFT	7" TFT	10.1" TFT
	Resolution	480 x 272	800 x 480	1024 x 600
	Brightness (cd/ m ²)	400	450	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	60/70/70/70	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	256 MB	128 MB
	RAM	128 MB	128 MB	128 MB
Processor		32-bit RISC 600MHz	Dual-core RISC	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 4W, 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	24±20% VDC	10.5~28VDC
	Power Isolation	Built-in	Built-in	Built-in
	Power Consumption	800mA@12VDC; 400mA@24VDC	450mA@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
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° ~ 55° C (32° ~ 131° F)	0° ~ 50° C (32° ~ 122° F)
	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)
	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)
Certificate	CE	CE marked	CE marked	CE marked
Software	Weincloud	EasyAccess 2.0 (Optional)	EasyAccess 2.0 (Optional)	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.

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