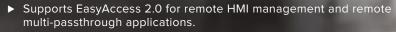


Series **IIoT Edge Computing**

Our greatest HMI upgrade ever! cMT X Series not only inherits key HMI features of the predecessors, but also integrates OT in the IIoT.

- ► Inherits all key features of the predecessors.
- Supports more than 300 major brands of PLCs / High performance communication algorithm.
- ▶ Built-in support for protocols: OPC UA / MQTT / Modbus TCP/IP, allowing data from the connected devices to be uploaded to IIoT datacenter.



- ► EasyWeb is a brand new interface that realizes EasyBuilder Pro project configuration and log viewing using a web browser. Industrial cybersecurity is greatly improved with encrypted data transmission.
- ► The superior computing and graphics processing abilities of the quad-core CPU ensure that the cMT X series can operate the EasyBuilder HMI project including animation objects swiftly and smoothly while it runs the CODESYS project at the same time.
- ▶ By the cutting-edge proprietary technology, the quad-core CPU enables independent operations for PLC communication by EasyBuilder and for I/O module control by CODESYS.

CODESYS

- ▶ Powerful CPU can independently run CODESYS controller development system (Optional)
- ► Supports CANopen and ModBus TCP/IP
- Supports applications using I/O Modules

Features

▶ Built-in OPC UA Client / Server which is officially certified by OPC Foundation.

Touch Gesture

- ▶ MQTT supports standard protocol, Amazon AWS IoT, Microsoft Azure, IBM Bluemix, Alibaba Cloud, and many other cloud platforms.
- ▶ Centralized recipe data management, accessing data using ERP, or uploading data to SQL Server using EasyBuilder Pro's SQL feature.







- ► cMT3152X / cMT3162X is built with IPS and capacitive type multi-touch screen that supports latest gesture features in EasyBuilder Pro for users to define preferred gestures.
- ▶ cMT3162X has a built-in vibrator that can feedback touch or event alerts by vibration





Smart communication gateway with outstanding data processing ability that is able to integrate data from different PLCs and convert protocols to OPC UA / MQTT / ModBus TCP/IP

Features

- ► cMT G Series with built-in supports for over 300 major brands of PLCs and controllers can integrate real time data from different devices and convert protocols to OPC UA / MQTT / Modbus TCP/IP, seamlessly integrating data to IIoT.
- ▶ Supports synchronizing data log and event log to MySQL, MS SQL database server.
- ▶ Built-in EasyWeb supports configuration using web browser, available functions include: system settings, PLC communication parameter settings, data log and event log management.
- ▶ The box shaped and 35mm DIN rail mountable design makes the model an easy fit in diverse applications.
- ▶ Equipped with 2 serial (COM) ports and 1 Ethernet port, cMT-G03 can function as a serial bridge between the existing equipment and an upper layer device, just simply by connecting cMT-G03's COM1:IN with the upper layer device (SCADA) and its COM2:OUT with the PLC of the existing equipment.

300+ Protocols Supported

SPC UA

ORC.

Built-in OPC UA officially certified for compliance by the OPC Foundation.

OPC UA is a machine to machine communication

*The OPC Foundation compliance logos are the property of OPC Foundation and are used under license. MQT

ıilt₋in MOTT

which is a subscriber / publisher messaging transport protocol designed to be light weight,

3 major industrial communication protocols

Modbus

MODBUS(TCP/IP) is a commonly available communication protoco enabling high speed communication among on-site devices.

cMT-G01

LAN 1 : 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1

COM 1: RS-232 2W COM 2: RS-485 2W/4W COM 3: RS-485 2W

cMT-G02

10/100 Base-T x 1

IEEE 802.11 b/g/n COM 1 : RS-232 2W COM 2: RS-485 2W/4W COM 3: RS-485 2W

cMT-G03

10/100 Base-T x 1

COM 1: RS-232 2W, RS-485 2W/4W COM 2: RS-232 2W, RS-485 2W/4W

cMT-G04

LAN: 10/100 Base-T x 1 SW1, SW2: 10/100 Base-T x 1 (2 port Ethernet switch)



- ▶ Supports IIoT protocol standards OPC UA and MQTT, allowing data from the devices to be uploaded to IIoT datacenter.
- ▶ Supports data sampling and event log functions, and associated historical data can be synchronized to SQL database.

HMI with External Touch Monitor / TV of Your Own Choice

Features

- HDMI
- ▶ Built-in HDMI interface and adjustable resolution up to 1920x1080
- ► Support various industrial touch monitors
- ► Support wide input voltage range 10.5 ~ 28 VDC
- ► Support IIoT Protocol: MQTT



cMT-iM21

longer limited by the HMIs provided on the market. It can also allow touch control via USB







HMIs can access data, records, or recipes from a database server directly. HMIs send SQL (Structured Query Language) queries to read or write database records. Built-in data samplings and event logs can also be synchronized automatically to database servers.

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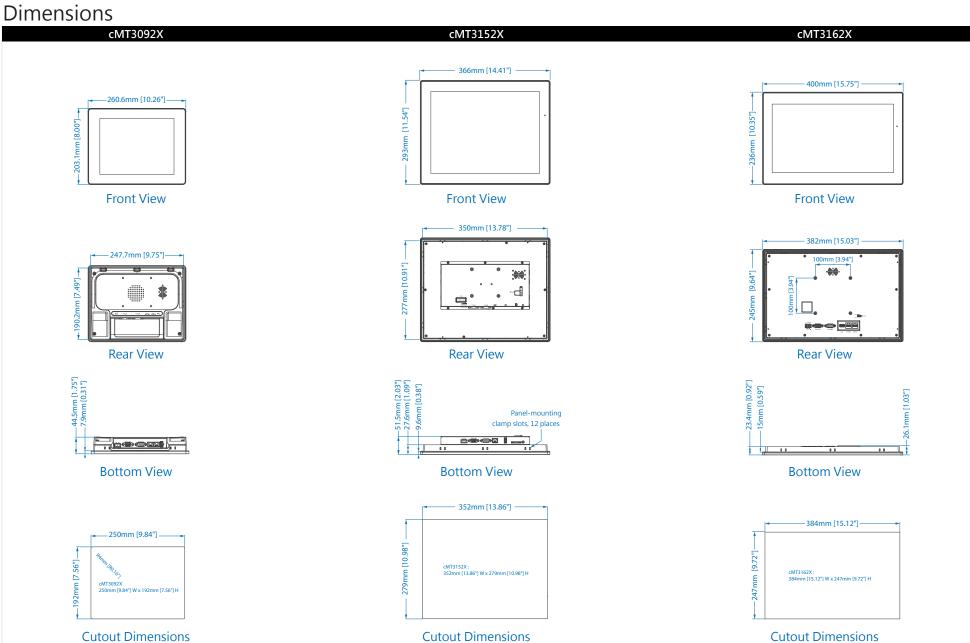




J	Model	cMT3092X	cMT3152X	cMT3162X
Display	Display	9.7" TFT	15" IPS	15.6" IPS
Display Dis	Resolution	1024 x 768	1024 x 768	1920 x 1080
	Brightness (cd/ m²)	350	400	300
	Contrast Ratio	500:1	1000: 1	800: 1
	Backlight Type	LED	LED	LED LED
	Backlight Life Time	>30,000 hrs.	>50,000 hrs.	>30,000 hrs.
	Colors	262K	16.2M	16.2M
	LCD Viewing Angle (T/B/L/R)	60/70/70/70	89/89/89	89/89/89 89/89/89
	Pixel Pitch (mm)	0.192(H) x 0.192(V)	0.297(H) x 0.297(V)	0.17925(H) x 0.17925(V)
ouch Panel	Type	4-wire Resistive Type	Tempered Glass, Capacitive Type* Hardness Scale 7H	Tempered Glass, Capacitive Type* Hardness Scale 7H
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%	N/A	N/A
vlemory	Flash	4 GB	4 GB	4 GB
	RAM	1 GB	1 GB	1 GB
rocessor		Quad-core 32-bit RISC 1.6GHz	Quad-core 32-bit RISC 1.6GHz	Quad-core 32-bit RISC 1.6GHz
	SD Card Slot	N/A	SD/SDHC	N/A
	USB Host	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1
	Ethernet	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1
	COM Port	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W*	Con.A: COM1 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W*	Con.A: COM1 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W*
	RS-485 Dual Isolation	N/A	Yes	N/A
	CAN Bus	Yes	Yes	Yes
	Audio Output	Built-in Mono Speaker	Built-in Mono Speaker Audio Line Out - 3.5 mm jack x 1	Built-in Mono Speaker
RTC		Built-in	Built-in	Built-in
Power	Input Power	24±20%VDC	24±20%VDC	24±20%VDC
	Power Isolation	Built-in	Built-in	Built-in
	Power Consumption	1A@24VDC	1.3A@24VDC	1.3A@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)
ecification	PCB Coating	Yes	Yes	Yes
	Enclosure	Plastic	Front bezel: Plastic, Rear Enclosure: Aluminum	Front bezel: Plastic, Rear Enclosure: Aluminum
	Dimensions WxHxD	260.6 x 203.1 x 44.5 mm	366 x 293 x 51.5 mm	400 x 263 x 26.1 mm
	Panel Cutout	250 x 192 mm	352 x 279 mm	384 x 247 mm
	Weight	Approx. 1 kg	Approx. 2.75 kg	Approx. 1.6 kg
	Mount	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 100 x 100 mm
vironment		NEMA4 / IP65 Compliant Front Panel	NEMA4 / IP65 Compliant Front Panel	NEMA4 / IP65 Compliant Front Panel
omment	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)
outific-t-	CE	CE marked	CE marked	CE marked
ertificate		CL Harkeu	CL HidiReu	CL marked
Software	UL	EasyBuilder Pro Built-in EasyAccess 2.0 CODESYS (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0 CODESYS (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0 CODESYS (Optional)

^{*}cMT3092X/ cMT3152X/ cMT3162X: Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used. *cMT3152X / cMT3162X: Supports multi-touch gestures. *cMT3162X: Supports vibrational feedback.

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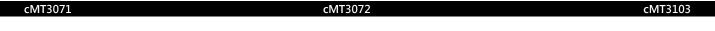


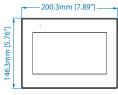




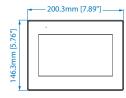
Model	cMT3071	cMT3072	cMT3103
	6111.567	CWITSOTZ	CIVITS103
Display	7" TFT	7" IPS	10.1" TFT
Resolution	800 x 480	1024 x 600	1024 x 600
Brightness (cd/ m²)	400	450	350
Contrast Ratio	800: 1	800: 1	500:1
Backlight Type	LED	LED	LED
Backlight Life Time	>30,000 hrs.	>25,000 hrs.	>50,000 hrs.
Colors	16.7M	16.7M	16.7M
LCD Viewing Angle (T/B/L/R)	60/80/80/80	85/85/85/85	60/60/70/70
Pixel Pitch (mm)	0.1926 (H) x 0.179(V)	0.1506(H) x 0.1432(V)	N/A
Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type
• • • • • • • • • • • • • • • • • • • •	**	**	Active Area Length(X)±2%, Width(Y)±2%
	-	-	4 GB
			1 GB
			32-bit RISC 1GHz
LICE Host			USB 2.0 x 1
0.30 HOSE	0.50 2.0 % 1	03b 2.0 X I	030 2.0 % 1
Ethernet	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 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
Wi-Fi	N/A	N/A	IEEE 802.11 b/g/n 802.11b: max 19.25 dBm 802.11g: max 13.74 dBm 802.11n: max 15.01 dBm
COM Port	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W*	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W*	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W*
CAN Bus	Yes	Yes	Yes
			Built-in
Input Power			10.5~28VDC
			Built-in
			2A@12VDC;1A@24VDC
·			500VAC (1 min.)
			Exceed 50MΩ @ 500VDC
			10 to 25Hz (X, Y, Z direction 2G 30 minutes)
			Yes
			Plastic
			271 x 213 x 36.4 mm
			260 x 202 mm
			Approx. 1.07 kg
			Panel mount
			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)
CE	CE marked	CE marked	CE marked
UL	cULus Listed	cULus Listed	cULus Listed
	EasyBuilder Pro EasyAccess 2.0 (Optional) CODESYS (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0 CODESYS (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0
	Brightness (cd/ m') Contrast Ratio Backlight Type Backlight Life Time Colors LCD Viewing Angle (T/B/L/R) Pixel Pitch (mm) Type Accuracy Flash RAM USB Host Ethernet COM Port CAN Bus Input Power Power Isolation Power Consumption Voltage Resistance Isolation Resistance Vibration Endurance PCB Coating Enclosure Dimensions WxHxD Panel Cutout Weight Mount Protection Structure Storage Temperature Operating Temperature Relative Humidity CE	Brightness (cd/ m²)	Brightness (cut wr) 400

^{*}cMT3071/ cMT3072/ cMT3103: Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

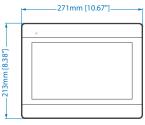




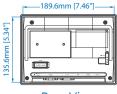
Front View



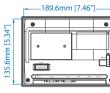
Front View



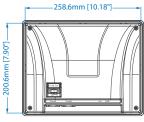
Front View



Rear View



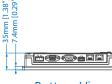
Rear View



Rear View



Bottom View



Bottom View



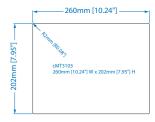
Bottom View



Cutout Dimensions

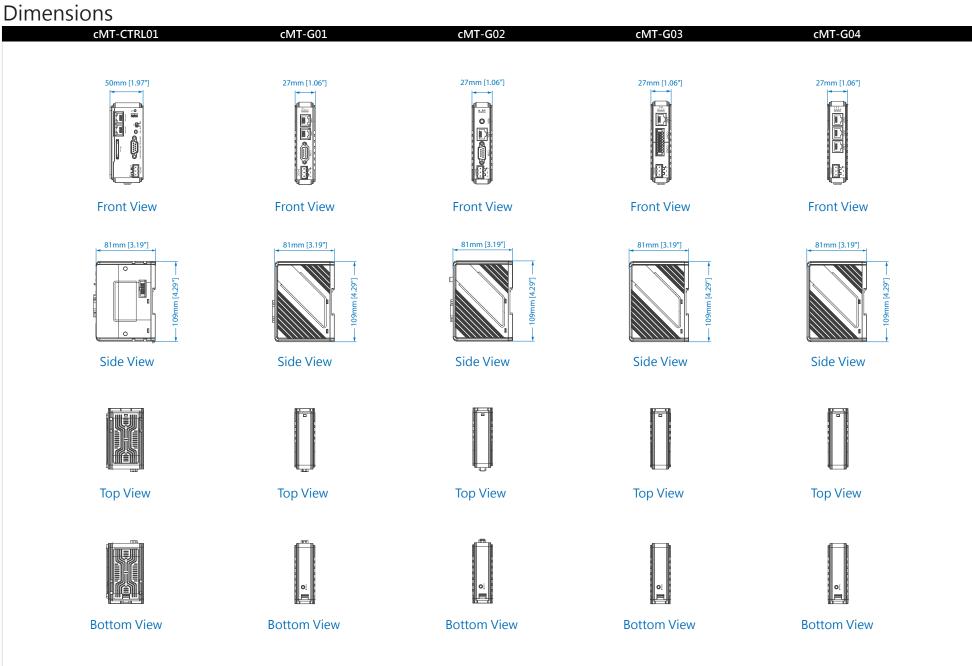


Cutout Dimensions



Cutout Dimensions

Specili	Cation					
	Model	cMT-CTRL01	cMT-G01	cMT-G02	cMT-G03	cMT-G04
Memory	Flash	4 GB	256 MB	256 MB	256 MB	256 MB
	RAM	512 MB	256 MB	256 MB	256 MB	256 MB
	Data, Memory, Code	3 MB	N/A	N/A	N/A	N/A
	Retain area	16 KB (every minute) (Kept after reboots)	N/A	N/A	N/A	N/A
	Persistent area	16 KB (every minute) (Kept after downloads)	N/A	N/A	N/A	N/A
	File system	8MB	N/A	N/A	N/A	N/A
Processor		Dual-Core 32 bits RISC 1GHz	32-bit RISC 600MHz	32-bit RISC 600MHz	32-bit RISC 528MHz	32-bit RISC 528MHz
I/O Port	SD Card Slot	SD/SDHC	N/A	N/A	N/A	N/A
	Ethernet	Ethernet 1: 10/100/1000 Base-T x 1 Ethernet 2: 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	LAN: 10/100 Base-T x 1 SW1, SW2: 10/100 Base-T x 1 (2 port Ethernet switch)
	Wi-Fi	N/A	N/A	IEEE 802.11 b/g/n 802.11b: max 15.88 dBm 802.11g: max 11.92 dBm 802.11n: max 11.28 dBm	N/A	N/A
	COM Port	COM1: RS-232 2W COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 2W COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 2W COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 2W, RS-485 2W/4W COM2: RS-232 2W, RS-485 2W/4W	N/A
	Local bus	iBus	N/A	N/A	N/A	N/A
CODESYS	Protocol	Modbus TCP/IP Master	N/A	N/A	N/A	N/A
RTC		Built-in	Built-in	Built-in	Built-in	Built-in
Power	Input Power	24±20%VDC	24±20%VDC	10.5~28VDC	10.5~28VDC	10.5~28VDC
	Power Isolation	Built-in	Built-in	Built-in	Built-in	Built-in
	Power Dissipation	Nominal 310mA @ 24VDC	N/A	N/A	N/A	N/A
	Current for Internal Bus	Max 2A @ 5VDC	N/A	N/A	N/A	N/A
	Current Consumption	550mA @ 5VDC	N/A	N/A	N/A	N/A
	Power Consumption	N/A	230mA@24VDC	230mA@12VDC; 115mA@24VDC	300mA@12VDC; 150mA@24VDC	270mA@12VDC; 150mA@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	Plastic	Plastic	Plastic
	Dimensions WxHxD	50 x 109 x 81 mm	27 x 109 x 81 mm	27 x 109 x 81 mm	27 x 109 x 81 mm	27 x 109 x 81 mm
	Weight	Approx. 0.24 kg	Approx. 0.14 kg	Approx. 0.14 kg	Approx. 0.14 kg	Approx. 0.14 kg
	Mount	35 mm DIN rail mounting	35 mm DIN rail mounting	35 mm DIN rail mounting	35 mm DIN rail mounting	35 mm DIN rail mounting
Environment	Protection Structure	IP20	IP20	IP20	IP20	IP20
	Storage Temperature	-20° ~ 70° C (-4° ~ 158° 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	-10° ~ 50° C (14° ~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		cULus Listed	cULus Listed	cULus Listed	cULus Listed
Software		EasyBuilder Pro EasyAccess 2.0 (Optional) Built-in CODESYS	EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional)





^{*}cMT-iM21: Protection Structure IP65 can be expected when waterproof gasket is properly installed.







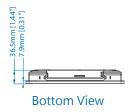
	Model	cMT-iV6	cMT-iPC10	cMT-iPC15
Display	Display	9.7" TFT	9.7" TFT	15" IPS
	Resolution	1024 x 768	1024 x 768	1024 x 768
	Brightness (cd/ m²)	350	350	400
	Contrast Ratio	500: 1	500: 1	1000: 1
	Backlight Type	LED	LED	LED
	Backlight Life Time	>30,000 hrs.	>30,000 hrs.	>50,000 hrs.
	Colors	262K	262K	16.2M
	LCD Viewing Angle (T/B/L/R)	60/70/70/70	60/70/70/70	89/89/89/89
	Pixel Pitch (mm)	0.192 (H) x 0.192 (V)	N/A	0.297(H) x 0.297(V)
Touch Panel	Туре	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	4 GB	64 GB (SSD)	64 GB (SSD)
	RAM	1 GB	4 GB	4 GB
Processor		32-bit RISC 1GHz	Intel Atom® E3827 processor	Intel Atom® E3827 processor
I/O Port	SD Card Slot	SD/SDHC	SD/SDHC/SDXC	SD/SDHC/SDXC
	USB Host	N/A	USB 2.0 x 2 / USB 3.0 x 1	USB 2.0 x 2 / USB 3.0 x 1
	USB Client	N/A	N/A	N/A
	Ethernet	10/100/1000 Base-T x 1	10/100/1000 Base-T x 2	10/100/1000 Base-T x 2
	Audio Output	Built-in Mono Speaker	Built-in Mono Speaker Audio Line Out - 3.5 mm jack x 1	Built-in Mono Speaker Audio Line Out - 3.5 mm jack x 1
RTC		Built-in	Built-in	Built-in
Power	Input Power	24±20%VDC	24±20%VDC	24±20%VDC
	Power Isolation	Built-in	Built-in	Built-in
	Power Consumption	900mA@24VDC	1.5A@24VDC	2A@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	PCB Coating	Yes	Yes	Yes
	Enclosure	Plastic	Plastic	Aluminum
	Dimensions WxHxD	260.6 x 203.1 x 36.5 mm	260.6 x 203.1 x 44.5 mm	366 x 293 x 54.2 mm
	Panel Cutout	250 x 192 mm	250 x 192 mm	352 x 279 mm
	Weight	Approx. 0.92 kg	Approx. 1.1 kg	Approx. 2.76 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
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 / IP65 Compliant Front Panel
	Storage Temperature	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 70° C (-4° ~ 158° 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
	UL		cULus Listed	cULus Listed
Software		cMT Viewer	*Windows® 7 / Windows® 8.1 / Windows® 10 IoT Enterprise (EasyLauncher + cMT Viewer)	*Windows® 7 / Windows® 8.1 / Windows® 10 IoT Enterprise (EasyLauncher + cMT Viewer)

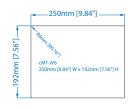
^{*} cMT-iPC10/ cMT-iPC15: License of Windows OS is excluded.
* Intel Atom is a trademark of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

260.6mm [10.26"] [500] Front View

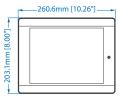
cMT-iV6





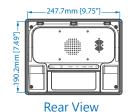


Cutout Dimensions

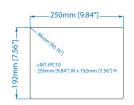


cMT-iPC10

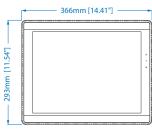
Front View





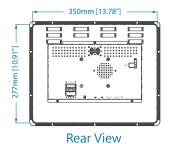


Cutout Dimensions



cMT-iPC15

Front View



Panel-mounting clamp slots, 10 places

Bottom View



Cutout Dimensions

iRSeries





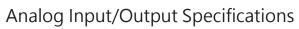


Communication Interface Specifications

	Model	iR-ETN	iR-COP	iR-ECAT
Expansion I/O module	Number of Bus Terminals	Depends on Power Consumption	Depends on Power Consumption	Depends on Power Consumption
	Digital Input Point	Max. 256	Max. 256	Max. 256
	Digital Output Point	Max. 128	Max. 128	Max. 128
	Analog Input Channel	Max. 64	Max. 64	Max. 64
	Analog Output Channel	Max. 64	Max. 64	Max. 64
Data Transfer Rate		10/100 Mbps	50k~1 Mbps	100 Mbps
Max. Number of TCP/IP Connections		8 Connections	-	-
Protocol		Modbus TCP/IP Server	CANopen Slave	EtherCat® Slave
Power	Power Supply	24 VDC (-15%/+20%)	24 VDC (-15%/+20%)	24 VDC (-15%/+20%)
	Power Dissipation	Nominal 100mA@24VDC	Nominal 100mA@24VDC	Nominal 100mA @ 24VDC
	Current for Internal Bus	Max 2A@5VDC	Max 2A@5VDC	Max 2A@5VDC
	Current Consumption	220mA@5VDC	170mA@5VDC	270mA@5VDC
	Electrical Isolation	Network to Logic : Isolation Logic to Field power : Isolation	Network to Logic: Isolation Logic to Field power: Isolation	Network to Logic : Isolation Logic to Field power : Isolation
	Back-up Fuse	≤ 1.6A Self-recovery	≤ 1.6A Self-recovery	≤ 1.6A Self-recovery
Specification	PCB Coating	Yes	Yes	Yes
	Enclosure	Plastic	Plastic	Plastic
	Dimensions WxHxD	27 x 109 x 81 mm	27 x 109 x 81 mm	27 x 109 x 81 mm
	Weight	Approx. 0.15 kg	Approx. 0.15 kg	Approx. 0.15 kg
	Mount	35mm DIN rail mounting	35mm DIN rail mounting	35mm DIN rail mounting
Environment	Protection Structure	IP20	IP20	IP20
	Storage Temperature	-20° ~ 70° C (-4° ~ 158° F)	-20° ~ 70° C (-4° ~ 158° F)	-20° ~ 70° C (-4° ~ 158° F)
	Operating Temperature	0° ~ 55° C (32° ~ 131° F)	0° ~ 55° C (32° ~ 131° F)	0° ~ 55° C (32° ~ 131° F)
	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)
Certification	EMC Immunity	Conforms to EN 55032: 2012+AC: 2013, Class A EN 61000-6-4: 2007+A1:2011 EN 55024: 2010+A1: 2015 EN 61000-6-2:2005	Conforms to EN 55032: 2012+AC: 2013, Class A EN 61000-6-4: 2007+A1:2011 EN 55024: 2010+A1: 2015 EN 61000-6-2:2005	Conforms to EN 55032: 2012+AC: 2013, Class A EN 61000-6-4: 2007+A1:2011 EN 55024: 2010+A1: 2015 EN 61000-6-2:2005

Digital Input/Output Specifications

	Model	iR-DI16-K	iR-DM16-P	iR-DM16-N	iR-DQ16-P	iR-DQ16-N	iR-DQ08-R
Input Logic		Sink or Source	Sink or Source	Sink or Source	N/A	N/A	N/A
Number of Inputs		16	8	8	0	0	0
Output Logic		N/A	Source	Sink	Source	Sink	Relay
Number of Outputs		0	8	8	16	16	8
Current Consumption		83mA@5VDC	130mA@5VDC	130mA@5VDC	196mA@5VDC	205mA@5VDC	220mA@5VDC
HIGH Level Input Voltage	2	15~28VDC	15~28VDC	15~28VDC	N/A	N/A	N/A
LOW Level Input Voltage		0~5 VDC	0~5 VDC	0~5 VDC	N/A	N/A	N/A
Output Voltage		N/A	11~28VDC	11~28VDC	11~28VDC	11~28VDC	250VAC/ 30VDC
Output Current		N/A	0.5A per channel (Max 4A)	0.5A per channel (Max 4A)	0.5A per channel (Max 4A)	0.5A per channel (Max 4A)	2A per channel (Max 8A)
Specification	Enclosure	Plastic					
	Dimensions WxHxD	27 x 109 x 81 mm					
	Weight	Approx. 0.12 kg					Approx. 0.13 kg
	Mount	35mm DIN rail mounting					
Environment	Protection Structure	IP20					
	Storage Temperature	-20° ~ 70° C (-4° ~ 158° F)					
	Operating Temperature	0° ~ 55° C (32° ~ 131° F)					
	Relative Humidity	10% ~ 90% (non-condensing)				
Connection	Cross-section	AWG 28-16					AWG 24-16
Certification	EMC Immunity	Conforms to EN 55032: 2012+AC: 2013. CI	ass A; EN 61000-6-4: 2007+A1:2	2011: EN 55024: 2010+A1: 2015:	EN 61000-6-2:2005		



	Model	iR-AI04-VI	iR-AM06-VI	iR-AQ04-VI				
Number of Analog In	puts	4 (±10V/ ±20mA)	4 (±10V/ ±20mA)	0				
Number of Analog ou	ıtputs	0	2 (±10V/ ±20mA)	4 (±10V/ ±20mA)				
Current Consumption	1	70mA@5VDC	70mA@5VDC	65mA@5VDC				
Analog Power Supply		24 VDC(20.4 VDC~28.8 VDC) (-15%~+20%)	24 VDC(20.4 VDC~28.8 VDC) (-15%~+20%)	24 VDC(20.4 VDC~28.8 VDC) (-15%~+20%)				
Specification	PCB Coating	Yes						
	Enclosure	Plastic						
	Dimensions WxHxD	27 x 109 x 81 mm						
	Weight	Approx. 0.12 kg						
	Mount	35mm DIN rail mounting						
Environment	Protection Structure	IP20						
	Storage Temperature	-20° ~ 70° C (-4° ~ 158° F)						
	Operating Temperature	0° ~ 55° C (32° ~ 131° F)						
	Relative Humidity	10% ~ 90% (non-condensing)						
Connection	Cross-section	AWG 28-16		AWG 24-16				
Certification	EMC Immunity	Conforms to EN 55032: 2012+AC: 2013, Class A; EN 61000-6-4: 200	07+A1:2011; EN 55024: 2010+A1: 2015; EN 61000-6-2:2005					



Temperature Specifications

	Model	iR-Al04-TR
Number of Input Channels		4 (RTD/ Thermocouple)
Current Consumption		65mA@5VDC
Analog Power Supply		24 VDC(20.4 VDC~28.8 VDC) (-15%~+20%)
Specification	PCB Coating	Yes
	Enclosure	Plastic
	Dimensions WxHxD	27 x 109 x 81 mm
	Weight	Approx. 0.12 kg
	Mount	35mm DIN rail mounting
Environment	Protection Structure	IP20
	Storage Temperature	-20° ~ 70° C (-4° ~ 158° F)
	Operating Temperature	0° ~ 55° C (32° ~ 131° F)
	Relative Humidity	10% ~ 90% (non-condensing)
Connection	Cross-section	AWG 28-16
Certification	EMC Immunity	Conforms to EN 55032: 2012+AC: 2013, Class A; EN 61000-6-4: 2007+A1:2011; EN 55024: 2010+A1: 2015; EN 61000-6-2:2005



Motion Control Specifications

·								
	Model		iR-PU01-P					
		Digital input/ output	Differential input/ output					
Input Logic		Sink Input	Differential Input					
Number of Inputs		4	3 (A/B/Z phase)					
Output Logic		Source Output	Differential Output					
Number of Outputs		4	2(A/B phase)					
HIGH Level Input Voltage		15~28 VDC						
LOW Level Input Voltage		0~5 VDC	- Control of the Cont					
Input current		24 VDC, 5 mA	Meets the Requirements of ANSI Standards TIA/EIA-485-A					
Input Impedance		3 ΚΩ	- Control of the Cont					
System Indicators		Red LED Input State						
Output Voltage		24VDC	Meets the Requirements of ANSI Standards TIA/EIA-485-A					
Output Current		50 mA						
Maximum input frequency		200KHz	2MHz					
Maximum Output frequency		40KHz	2MHz					
Number of Axis		1- Axis						
Specification	PCB Coating	Yes						
	Enclosure	Plastic						
	Dimensions WxHxD	27 x 109 x 81 mm						
	Weight	Approx. 0.12 kg						
	Mount	35mm DIN rail mounting						
Environment	Protection Structure	IP20						
	Storage Temperature	-20° ~ 70° C (-4° ~ 158° F)						
	Operating Temperature	0° ~ 55° C (32° ~ 131° F)						
	Relative Humidity	10% ~ 90% (non-condensing)						
Connection	Cross-section	AWG 28-16						
Certification	EMC Immunity	Conforms to EN 55032: 2012+AC: 2013, Class A; EN 6:	1000-6-4: 2007+A1:2011; EN 55024: 2010+A1: 2015; EN 61000-6-2:2005					

Quick Feature Comparison

	cMT3092X	cMT3152X	cMT3162X	cMT3071	cMT3072	cMT3103	cMT-CTRL01	Gateway cMT-G01 / cMT-G02 cMT-G03 / cMT-G04	cMT-FHD	cMT-SVR-100	cMT-SVR-200
Audio Output	•	•	•						via HDMI		
Wi-Fi						•		cMT-G02			•
cMT Viewer	•	•	•	•	•	•			•	•	•
3G/4G Dongle	•	•	•	•	•	•				•	•
Control Token	•	•	•	•	•	•			•	•	•
e-Mail	•	•	•	•	•	•	•	•	•	•	•
Ethernet Printer	•	•	•	•	•	•			•		
VNC Server	•	•	•	•	•	•			•		
Web Streaming	•	•	•	•	•	•			•	•	•
Window Animation	•	•	•	•	•	•			•	•	•
Combo Object	•	•	•	•	•	•			•	•	•
File Browser	•	•	•	•	•	•			•		
Media Player	•	•	•	•	•	•			•		
PDF Reader	•	•	•	•	•	•			•		
Operation Log	•	•	•	•	•	•			•	•	•
Picture Viewer	•	•	•	•	•	•			•		
Video In - IP Camera	•	•	•	•	•	•			•		
ergy Demand Display	•	•	•	•	•	•			•	•	•
MQTT	•	•	•	•	•	•	•	•	•	•	•
OPC UA Client	•	•	•	•	•	•	•	•	•	•	•
OPC UA Server	•	•	•	•	•	•	•	•	Optional	Optional	Optional
Database Server	•	•	•	•	•	•	•	•	•	•	•
SQL Query	•	•	•	•	•	•			•	•	•
CODESYS	Optional	Optional	Optional	Optional	Optional		•				
EasyAccess 2.0	Built-in License	Built-in License	Built-in License	Optional	Built-in License	Built-in License	Optional	Optional	Optional	cMT-SVR-100 Optional cMT-SVR-102 Built-in License	cMT-SVR-200 Optional cMT-SVR-202 Built-in License



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The company's missions are to provide its customers with quality products and superior service as well as to share the fruits of its good teamwork with all of its employees, by which we are able to achieve the goals of establishing a reputation as a leading brand in the industry and ensuring sustainability of the operation and development of enterprise.