



cMT X Series

Fast  *Smart*  *Reliable*

cMT X Series

Full Featured Smart HMI

The cMT X Series is more than its outstanding performance. It is also the software focus on data integration, monitoring and the cloud that truly makes the cMT X the smart HMI to have.

✓ Performance

Quad-core CPU

✓ Display

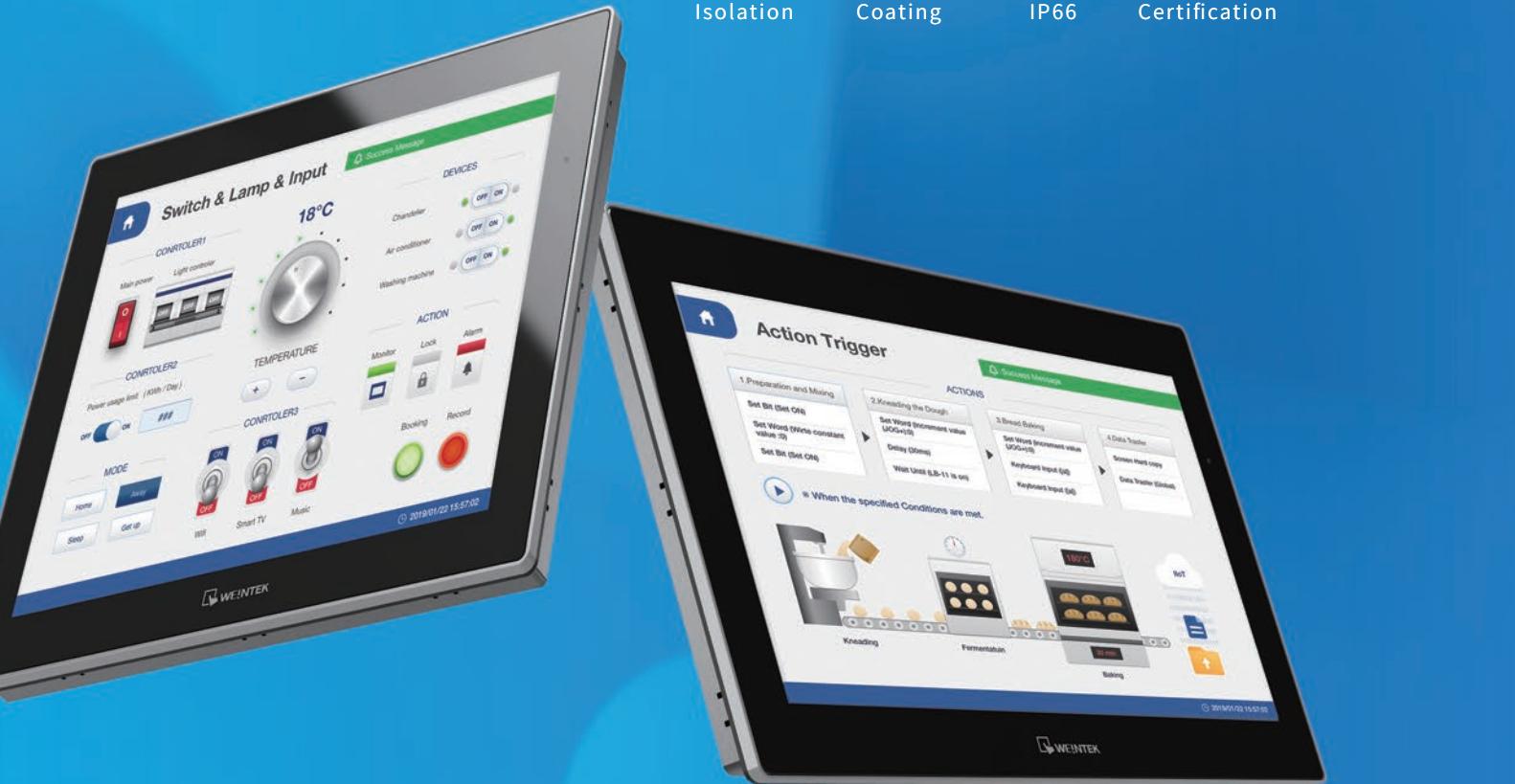
178° Wide Viewing Angle

✓ Capacity

4GB Flash / 1GB RAM

✓ Connectivity

400+ Communication Drivers



Premium Protection⁺



Power
Isolation



PCB
Coating



NEMA4/
IP66



CE / UL
Certification

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Solution 01

Powerful Software Features

EasyBuilder Pro is an editing software that makes creating a unique HMI project easy for everyone, providing an intuitive and aesthetically pleasing UI, useful diagnostic tools, and abundant design resources.



Ribbon Style

An intuitive and aesthetically pleasing user interface.



Window Layers

Edit complex projects with ease.



Tool: cMT Diagnoser

Stay on top of your HMI, from data monitoring, communication testing, to code debugging.



Tool: Online Simulator

Verify communication and preview operation result without an actual HMI.



Simplified Design Process: Condition Feature

Construct if/else logics with graphical UI instead of codes.



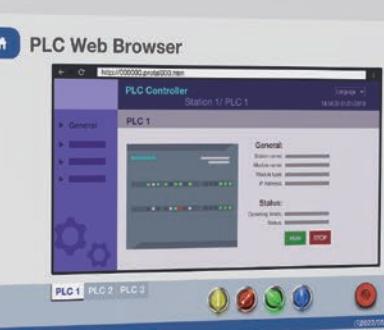
Simplified Design Process: Action Feature

Configure numerous actions with graphical UI to be triggered at once.



2000+ Picture Libraries

Make an eye-catching project with a variety of picture resources.



In addition to common objects such as shapes, buttons, switches, numeric displays, basic charts, and recipes, EasyBuilder Pro further empowers the HMI with advanced capabilities.



Multimedia Support

Watch IP/USB Camera feeds on HMI or use Media Player to play HD videos on HMI.



File Transfer and Access

Use FTP server access to send various files and screenshots on the HMI to the server, or download PDF files, images, and videos from the server to view on the HMI.



Web Browser

Access the webpages of a PLC, a controller, or an embedded device to adjust its system parameters or monitor its status.



Data Processing

Synchronize historical data of Data Log, Event Log, and Operation Log to an external database, and, where necessary, check for their data integrity.



Safety and Security

Login via the HMI's own security server, or via external server in LDAP mode which features centralized account administration for more effective security management.



Feature Customization

Use JavaScript to customize features beyond what is provided and connect to API to enable applications.



Solution 02

Data Integration

400+ device protocols as well as IIoT protocol support and database connectivity aid in data integration

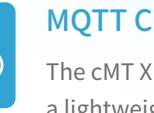


Industrial Protocol Integration

Supported industrial protocol standards include OPC UA and Modbus TCP/IP, interconnecting all onsite devices and facilitating integration with the hosts.

Why OPC UA?

OPC UA is the de-facto industrial communication standard. It features openness, interconnectivity, interoperability, security and reliability.

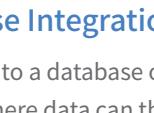


MQTT Cloud Integration

The cMT X Series supports MQTT, a lightweight protocol that makes it easy to send telemetry to cloud and big data systems.

Accelerating IoT Integration

In EasyBuilder Pro, MQTT connection setup to AWS, Azure, and Google IoT platforms are greatly simplified.



Database Integration

Send data to a database or an IT System where data can then be more efficiently processed using SQL commands.

Supported Databases

Database support includes MySQL, MS SQL and their related version: MariaDB, Azure SQL Database

Solution 03

Mobile Monitoring

Choose the best means of monitoring depending on your application



VNC Viewer

[Monitor the HMI with VNC Viewer.](#)



WebView

[Monitor the HMI on a web browser, be it Chrome or Safari.](#)

EasyWeb

[View historical datalog and event log in a webpage.](#)



cMT Viewer App

Use the cMT Viewer for secure and efficient HMI monitoring featuring:

- Cross-platform support (PC/Mobile)
- Multi-HMI / multi-user monitoring
- [Control Token](#) safety mechanism

Monitor Mode

[View up to 20 HMI screens concurrently within a screen for maximum efficiency.](#)



Solution 04

Weincloud

Dashboard × EasyAccess 2.0

With Dashboard and EasyAccess 2.0, begin remote monitoring or maintenance anywhere and anytime

 **Dashboard** Dashboard Monitoring

Dashboard visualization helps obtain status overview and gain insights instantly.

Easy Deployment

No server hosting required.

Intuitive UI

Build a dashboard with the web-based, drag and drop editor in no time.

Data Visualization

Aggregate data from different sources and display them on a single page.

Widget Variety

Create a dashboard of your own, choosing from a variety of widgets.

Secure Transmission

Data security backed by full SSL/TLS encryption.

Data Integrity

Data completeness ensured by the data retention feature in the event of network issue.


 **EasyAccess 2.0** Remote Connection Service

Remote connection, alarm push notifications, and PLC pass-through make it possible to monitor HMI or carry out maintenance anywhere, anytime.

Solution 05

Wireless Solution

Modular WiFi design enables wireless connectivity for more HMIs, helping to tackle situations where wiring may be difficult.



cMT1106X / cMT2108X2 / cMT3102X / cMT3108XH / cMT3108XP

**cMT X Series + M02 WiFi Module**

Less Delay | Higher Speed | Wider Range | Better Deployment

1. IEEE 802.11b/g/n with WPA/WPA2 security allows safe transmission of data in complex industrial environments.
2. The magnetic mount antenna can be installed at an optimal location to maximize signal strength.
3. WiFi hotspot makes it easy to access HMI.

Solution 06

Headless HMI

Compact and well-suited in a control cabinet, a headless HMI can be used with screens of various sizes or monitored with cMT Viewer on a tablet, mobile phone, or computer.

cMT-FHDX-820

Supporting video output via HDMI, its size and resolution is not limited by current HMI offerings. Software features are comparable to those of cMT X Advanced.

**cMT-SVRX-820/822**

The latest server-type HMI is the perfect manifestation of the cMT X architecture, and the cMT Viewer app is all it needs to start mobile monitoring.

* Other wireless models: cMT-SVR-200 / cMT-SVR-202



Solution 07

Programmable Control

HMI Integrated with CODESYS PLC Controller
System + iR Series Module

**Controller****HMI + CODESYS**

An HMI-CODESYS integrated controller, where the CODESYS runs independently on one CPU core; i.e., HMI and CODESYS do not affect each other.

cMT-CTRL01

An IIoT controller that integrates CODESYS and IIoT Gateway.

**iR Series****iR-ETN40R**

A compact device that integrates an Ethernet coupler and Digital I/O, providing a one-piece, cost-effective solution.

I/O Module

Coupler protocol: MODBUS TCP/IP, EtherNet/IP, CANopen and EtherCAT

I/O Module: Digital and Analog I/O, Temperature Module, and Single-axis Motion Control Module

Standard**enhanced for smart applications**

In addition to all the features on cMT X Basic, cMT X Standard also features enhancements in multimedia and mobile monitoring to meet the needs for a range of applications.



cMT X Series Model Types

cMT X Series is offered in multiple levels to address different requirements

○ Naming Convention ○

cMT 3 07 2 X *

Series Name

cMT X

Category

1 Basic

2 Standard

3 Advanced

Screen Size

07 7 "

09 9.7 "

10 10.1 "

12 12.1 "

15 15 "

16 15.6 "

Others

H High Resolution

T Wide Temperature

P Projected Capacitive Touch (PCAP)

Ethernet Port

2 Dual Ethernet Ports

6 Single Ethernet Port

8 Dual Ethernet Ports



Advanced Model

Specifications



Model		cMT3072X2	cMT3072XH2	cMT3072XHT	cMT3092X
Display	Display	7" TFT	7" WVA	7" WVA	9.7" TFT
	Resolution	800 x 480	1024 x 600	1024 x 600	1024 x 768
	Brightness (cd/ m ²)	400	450	450	350
	Contrast Ratio	800: 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.	>30,000 hrs.
	Colors	16.7M	16.7M	16.7M	262K
	LCD Viewing Angle (T/B/L/R)	80/60/80/80	85/85/85/85	85/85/85/85	60/70/70/70
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%			
Memory	Flash	4 GB	4 GB	4 GB	4 GB
	RAM	1 GB	1 GB	1 GB	1 GB
Processor		Quad-core RISC	Quad-core RISC	Quad-core RISC	Quad-core RISC
I/O Port	USB Host	USB 2.0 x 1			
	Ethernet	LAN 1: 10/100 Base-T x 1 LAN 2: 10/100 Base-T x 1	LAN 1: 10/100 Base-T x 1 LAN 2: 10/100 Base-T x 1	LAN 1: 10/100 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: 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	Yes
	Audio Output	N/A	N/A	N/A	Built-in Mono Speaker
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	820mA@24VDC	820mA@24VDC	820mA@24VDC	1A@24VDC
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC			
Specification	PCB Coating	Yes	Yes	Yes	Yes
	Enclosure	Plastic	Plastic	Aluminum	Plastic
	Dimensions WxHxD	200.3 x 146.3 x 35.0 mm	200.3 x 146.3 x 35.0 mm	200.4 x 146.5 x 36.0 mm	260.6 x 203.1 x 44.5 mm
	Panel Cutout	192 x 138 mm	192 x 138 mm	192 x 138 mm	250 x 192 mm
	Weight	Approx. 0.6 kg	Approx. 0.6 kg	Approx. 0.8 kg	Approx. 1 kg
	Mount	Panel mount	Panel mount	Panel mount	Panel mount, VESA mount 75 x 75 mm
Environment	Protection Structure	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP66 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° ~ 55° C (32° ~ 131° F)	0° ~ 55° C (32° ~ 131° F)	-20° ~ 55° C (-4° ~ 131° F)	0° ~ 50° C (32° ~ 122° F)
	Relative Humidity	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)
	CE	CE marked	CE marked	CE marked	CE marked
Certificate	UL	cULus Listed	cULus Listed	cULus Listed	cULus Listed
	Weincloud	EasyAccess 2.0 (Optional) Dashboard (Optional)			
Software	CODESYS	Optional	Optional	Optional	Optional

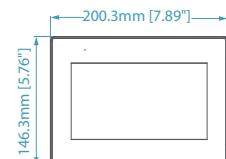
*Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.



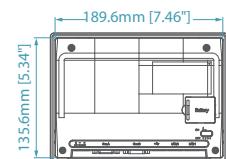
Advanced Model

Dimensions

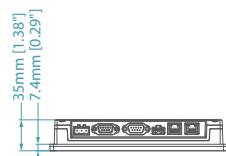
cMT3072X2



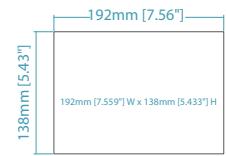
Front View



Rear View

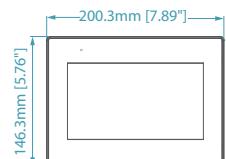


Bottom View

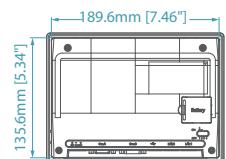


Cutout Dimensions

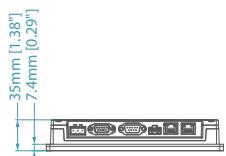
cMT3072XH2



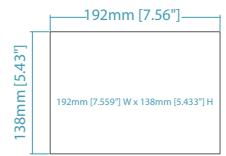
Front View



Rear View

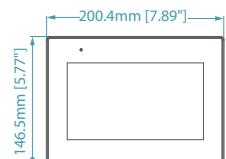


Bottom View

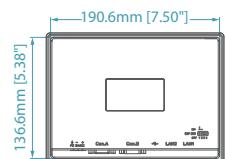


Cutout Dimensions

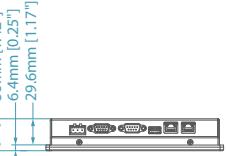
cMT3072XHT



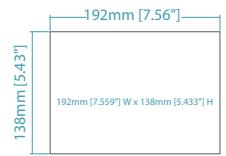
Front View



Rear View

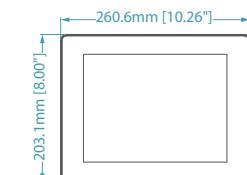


Bottom View

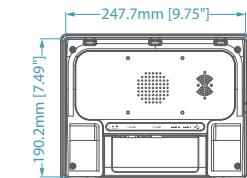


Cutout Dimensions

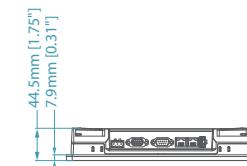
cMT3092X



Front View



Rear View



Bottom View



Cutout Dimensions

Advanced Model

Specifications



Model	cMT3108XH	cMT3108XP	cMT3102X	cMT3152X	cMT3162X
Display	10.1" WVA Resolution: 1280 x 800 Brightness (cd/m²): 500 Contrast Ratio: 800:1 Backlight Type: LED Backlight Life Time: >50,000 hrs. Colors: 16.7M LCD Viewing Angle (T/B/L/R): 89/89/89/89 Pixel Pitch (mm): 0.1695 (H) x 0.1695 (V)	10.1" WVA Resolution: 1280 x 800 Brightness (cd/m²): 425 Contrast Ratio: 800:1 Backlight Type: LED Backlight Life Time: >50,000 hrs. Colors: 16.7M LCD Viewing Angle (T/B/L/R): 89/89/89/89 Pixel Pitch (mm): 0.1695 (H) x 0.1695 (V)	10.1" TFT Resolution: 1024 x 600 Brightness (cd/m²): 350 Contrast Ratio: 500:1 Backlight Type: LED Backlight Life Time: >50,000 hrs. Colors: 16.7M LCD Viewing Angle (T/B/L/R): 70/70/80/80 Pixel Pitch (mm): 0.2175 (H) x 0.2088 (V)	15" WVA Resolution: 1024 x 768 Brightness (cd/m²): 350 Contrast Ratio: 2500:1 Backlight Type: LED Backlight Life Time: >70,000 hrs. Colors: 16.2M LCD Viewing Angle (T/B/L/R): 88/88/88/88 Pixel Pitch (mm): 0.297(H) x 0.297(V)	15.6" WVA Resolution: 1920 x 1080 Brightness (cd/m²): 300 Contrast Ratio: 800:1 Backlight Type: LED Backlight Life Time: >30,000 hrs. Colors: 16.2M LCD Viewing Angle (T/B/L/R): 89/89/89/89 Pixel Pitch (mm): 0.17925(H) x 0.17925(V)
Touch Panel	Type: 4-wire Resistive Type Accuracy: Active Area Length(X)±2%, Width(Y)±2%	Type: Tempered Glass, Capacitive Type Hardness Scale: 7H	Type: 4-wire Resistive Type	Type: Tempered Glass, Capacitive Type Hardness Scale: 7H	Type: Tempered Glass, Capacitive Type Hardness Scale: 7H
Memory	Flash: 4 GB RAM: 1 GB	Flash: 4 GB RAM: 1 GB	Flash: 4 GB RAM: 1 GB	Flash: 4 GB RAM: 1 GB	Flash: 4 GB RAM: 1 GB
Processor	Quad-core RISC	Quad-core RISC	Quad-core RISC	Quad-core RISC	Quad-core RISC
I/O Port	SD Card Slot: N/A USB Host: USB 2.0 x 1 Ethernet: LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1 WiFi: M02 WiFi Expansion Module (Optional) 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* RS-485 Dual Isolation: N/A CAN Bus: Yes Audio Output: Built-in Mono Speaker	SD Card Slot: N/A USB Host: USB 2.0 x 1 Ethernet: LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1 WiFi: M02 WiFi Expansion Module (Optional) 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* RS-485 Dual Isolation: N/A CAN Bus: Yes Audio Output: Built-in Mono Speaker	SD Card Slot: N/A USB Host: USB 2.0 x 1 Ethernet: LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1 WiFi: M02 WiFi Expansion Module (Optional) 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* RS-485 Dual Isolation: N/A CAN Bus: Yes Audio Output: N/A	SD Card Slot: N/A USB Host: USB 2.0 x 1 Ethernet: LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1 WiFi: M02 WiFi Expansion Module (Optional) COM Port: 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: Yes CAN Bus: Yes Audio Output: Built-in Mono Speaker Audio Line Out - 3.5 mm jack x 1	SD Card Slot: N/A USB Host: USB 2.0 x 1 Ethernet: LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1 WiFi: M02 WiFi Expansion Module (Optional) COM Port: 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 CAN Bus: Yes Audio Output: Built-in Mono Speaker
RTC	Built-in	Built-in	Built-in	Built-in	Built-in
Power	Input Power: 24±20%VDC Power Isolation: Built-in Power Consumption: 700mA@24VDC Voltage Resistance: 500VAC (1 min.) Isolation Resistance: Exceed 50MΩ @ 500VDC	Input Power: 24±20%VDC Power Isolation: Built-in Power Consumption: 700mA@24VDC Voltage Resistance: 500VAC (1 min.) Isolation Resistance: Exceed 50MΩ @ 500VDC	Input Power: 24±20%VDC Power Isolation: Built-in Power Consumption: 1A@24VDC Voltage Resistance: 500VAC (1 min.) Isolation Resistance: Exceed 50MΩ @ 500VDC	Input Power: 24±20%VDC Power Isolation: Built-in Power Consumption: 1.3A@24VDC Voltage Resistance: 500VAC (1 min.) Isolation Resistance: Exceed 50MΩ @ 500VDC	Input Power: 24±20%VDC Power Isolation: Built-in Power Consumption: 1.3A@24VDC Voltage Resistance: 500VAC (1 min.) Isolation Resistance: Exceed 50MΩ @ 500VDC
Specification	PCB Coating: Yes Enclosure: Plastic Dimensions WxHxD: 266 x 196 x 40 mm Panel Cutout: 255 x 185 mm Weight: Approx. 1.1 kg Mount: Panel mount, VESA mount 75 x 75 mm	PCB Coating: Yes Enclosure: Plastic Dimensions WxHxD: 266 x 196 x 42.7 mm Panel Cutout: 255 x 185 mm Weight: Approx. 1.1 kg Mount: Panel mount, VESA mount 75 x 75 mm	PCB Coating: Yes Enclosure: Plastic Dimensions WxHxD: 271 x 213 x 38 mm Panel Cutout: 260 x 202 mm Weight: Approx. 1.2 kg Mount: Panel mount, VESA mount 75 x 75 mm	PCB Coating: Yes Enclosure: Front bezel: Plastic, Rear Enclosure: Aluminum Dimensions WxHxD: 366 x 293 x 51.5 mm Panel Cutout: 352 x 279 mm Weight: Approx. 2.85 kg Mount: Panel mount, VESA mount 75 x 75 mm	PCB Coating: Yes Enclosure: Front bezel: Plastic, Rear Enclosure: Aluminum Dimensions WxHxD: 400 x 263 x 27.6 mm Panel Cutout: 384 x 247 mm Weight: Approx. 1.6 kg Mount: Panel mount, VESA mount 100 x 100 mm
Environment	Protection Structure: UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel Storage Temperature: -20° ~ 60° C (-4° ~ 140° F) Operating Temperature: 0° ~ 55° C (32° ~ 131° F) Relative Humidity: 10% ~ 90% (non-condensing) Vibration Endurance: 10 to 25Hz (X, Y, Z direction 2G 30 minutes)	Protection Structure: NEMA4 / IP66 Compliant Front Panel Storage Temperature: -20° ~ 60° C (-4° ~ 140° F) Operating Temperature: 0° ~ 55° C (32° ~ 131° F) Relative Humidity: 10% ~ 90% (non-condensing) Vibration Endurance: 10 to 25Hz (X, Y, Z direction 2G 30 minutes)	Protection Structure: UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel Storage Temperature: -20° ~ 60° C (-4° ~ 140° F) Operating Temperature: 0° ~ 50° C (32° ~ 122° F) Relative Humidity: 10% ~ 90% (non-condensing) Vibration Endurance: 10 to 25Hz (X, Y, Z direction 2G 30 minutes)	Protection Structure: NEMA4 / IP66 Compliant Front Panel Storage Temperature: -20° ~ 60° C (-4° ~ 140° F) Operating Temperature: 0° ~ 50° C (32° ~ 122° F) Relative Humidity: 10% ~ 90% (non-condensing) Vibration Endurance: 10 to 25Hz (X, Y, Z direction 2G 30 minutes)	Protection Structure: NEMA4 / IP66 Compliant Front Panel Storage Temperature: -20° ~ 60° C (-4° ~ 140° F) Operating Temperature: 0° ~ 50° C (32° ~ 122° F) Relative Humidity: 10% ~ 90% (non-condensing) Vibration Endurance: 10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Certificate	CE marked UL cULus Listed ATEX: ATEX Zone 2/22 Category 3 G/D	CE marked UL cULus Listed ATEX: ATEX Zone 2/22 Category 3 G/D	CE marked UL cULus Listed ATEX: ATEX Zone 2/22 Category 3 G/D	CE marked UL cULus Listed ATEX: N/A	CE marked UL cULus Listed ATEX: N/A
Software	Weincloud: EasyAccess 2.0 (Optional) CODESYS: Optional	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)

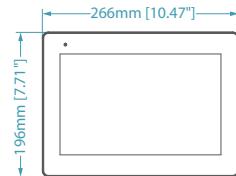
*Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.



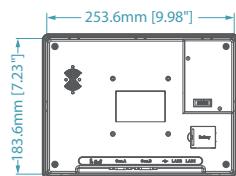
Advanced Model

Dimensions

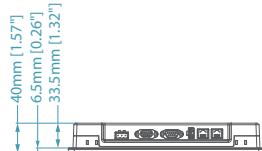
cMT3108XH



Front View



Rear View

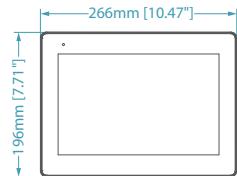


Bottom View

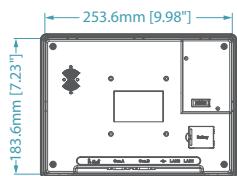


Cutout Dimensions

cMT3108XP



Front View



Rear View

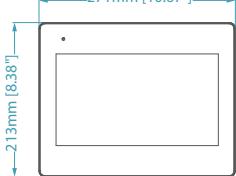


Bottom View

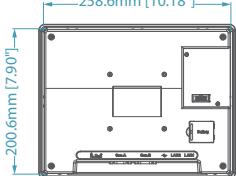


Cutout Dimensions

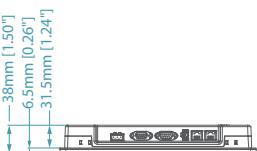
cMT3102X



Front View



Rear View

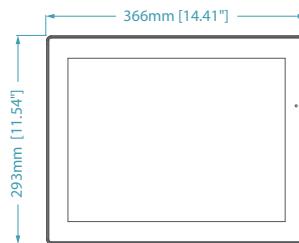


Bottom View

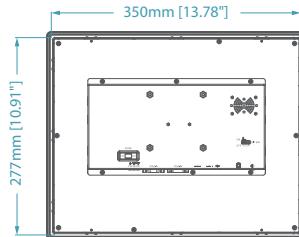


Cutout Dimensions

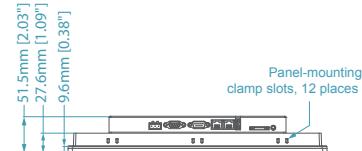
cMT3152X



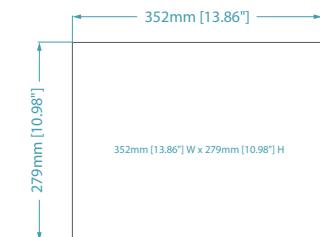
Front View



Rear View

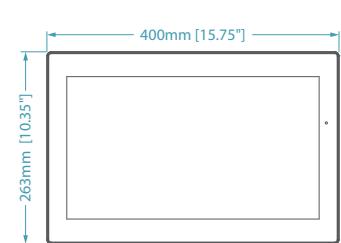


Bottom View

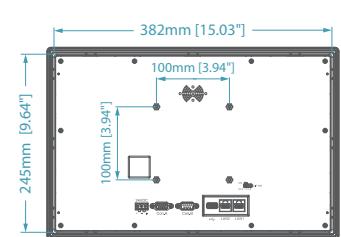


Cutout Dimensions

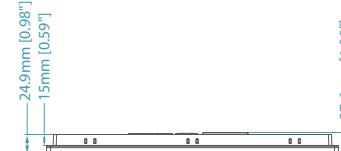
cMT3162X



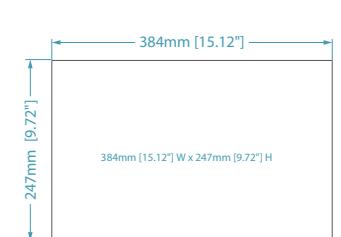
Front View



Rear View



Bottom View



Cutout Dimensions

Standard Model

Specifications



Model	cMT2078X	cMT2108X2	cMT2128X	cMT2158X	cMT2166X
Display	7" TFT Resolution 800 x 480	10.1" TFT 1024 x 600	12.1" WVA 1024 x 768	15" WVA 1024 x 768	15.6" WVA 1920 x 1080
Brightness (cd/ m ²)	400	350	500	350	300
Contrast Ratio	800:1	500:1	1000:1	2500:1	800:1
Backlight Type	LED	LED	LED	LED	LED
Backlight Life Time	>30,000 hrs.	>50,000 hrs.	>30,000 hrs.	>70,000 hrs.	>30,000 hrs.
Colors	16.7M	16.7M	16.7M	16.2M	16.2M
LCD Viewing Angle (T/B/L/R)	80/60/80/80	70/70/80/80	89/89/89/89	88/88/88/88	89/89/89/89
Pixel Pitch (mm)	0.1926(H) x 0.179(V)	0.2175 (H) x 0.2088 (V)	0.240 (H) x 0.240 (V)	0.297(H) x 0.297(V)	0.17925(H) x 0.17925(V)
Touch Panel	Type Accuracy	4-wire Resistive Type Active Area Length(X)±2%, Width(Y)±2%	4-wire Resistive Type Active Area Length(X)±2%, Width(Y)±2%	4-wire Resistive Type Active Area Length(X)±2%, Width(Y)±2%	Tempered Glass, Capacitive Type Hardness Scale 7H N/A
Memory	Flash RAM	4 GB 1 GB	4 GB 1 GB	4 GB 1 GB	4 GB 1 GB
Processor	Quad-core RISC	Quad-core RISC	Quad-core RISC	Quad-core RISC	Quad-core RISC
I/O Port	SD Card Slot USB Host Ethernet WiFi COM Port RS-485 Dual Isolation Audio Output	N/A USB 2.0 x 1 LAN 1: 10/100 Base-T x 1 LAN 2: 10/100 Base-T x 1 N/A Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W* N/A N/A	N/A USB 2.0 x 1 LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1 M02 WiFi Expansion Module (Optional) Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W*	Micro SD x 1 USB 2.0 x 1 LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1 N/A Con.A: COM1 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W*	SD/SDHC USB 2.0 x 1 LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1 N/A Con.A: COM1 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W*
RTC	Built-in	Built-in	Built-in	Built-in	Built-in
Power	Input Power Power Isolation Power Consumption Voltage Resistance Isolation Resistance	24±20%VDC Built-in 820mA@24VDC 500VAC (1 min.) Exceed 50MΩ @ 500VDC	24±20%VDC Built-in 1A@24VDC 1.2A@24VDC Exceed 50MΩ @ 500VDC	24±20%VDC Built-in 1.3A@24VDC 500VAC (1 min.) Exceed 50MΩ @ 500VDC	24±20%VDC Built-in 0.9A@24VDC 500VAC (1 min.) Exceed 50MΩ @ 500VDC
Specification	PCB Coating Enclosure Dimensions WxHxD Panel Cutout Weight Mount	Yes Plastic 200.3 x 146.3 x 35.0 mm 192 x 138 mm Approx. 0.6 kg	Yes Plastic 271 x 213 x 38 mm 260 x 202 mm Approx. 1.2 kg	Yes Plastic 317 x 243 x 41 mm 305 x 231 mm Approx. 1.7 kg	Yes Aluminum 366 x 293 x 48.2mm 352 x 279 mm Approx. 2.74 kg
Environment	Protection Structure Storage Temperature Operating Temperature Relative Humidity Vibration Endurance	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel -20° ~ 60° C (-4° ~ 140° F)	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel -20° ~ 60° C (-4° ~ 140° F)	NEMA4 / IP66 Compliant Front Panel -20° ~ 60° C (-4° ~ 140° F)	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel -20° ~ 60° C (-4° ~ 140° F)
Certificate	CE UL	CE marked cULus Listed	CE marked cULus Listed	CE marked	CE marked
Software	Weincloud CODESYS	EasyAccess 2.0 (Optional) Dashboard (Optional) Optional	EasyAccess 2.0 (Optional) Dashboard (Optional) Optional	EasyAccess 2.0 (Optional) Dashboard (Optional) Optional	EasyAccess 2.0 (Optional) Dashboard (Optional) N/A

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

*The cMT2108X2 (V2) / cMT2158X (V2) product label indicates MPI support, while the original cMT2108X2 / cMT2158X label does not.



Capacitive Type



Wide viewing angle

Standard Model

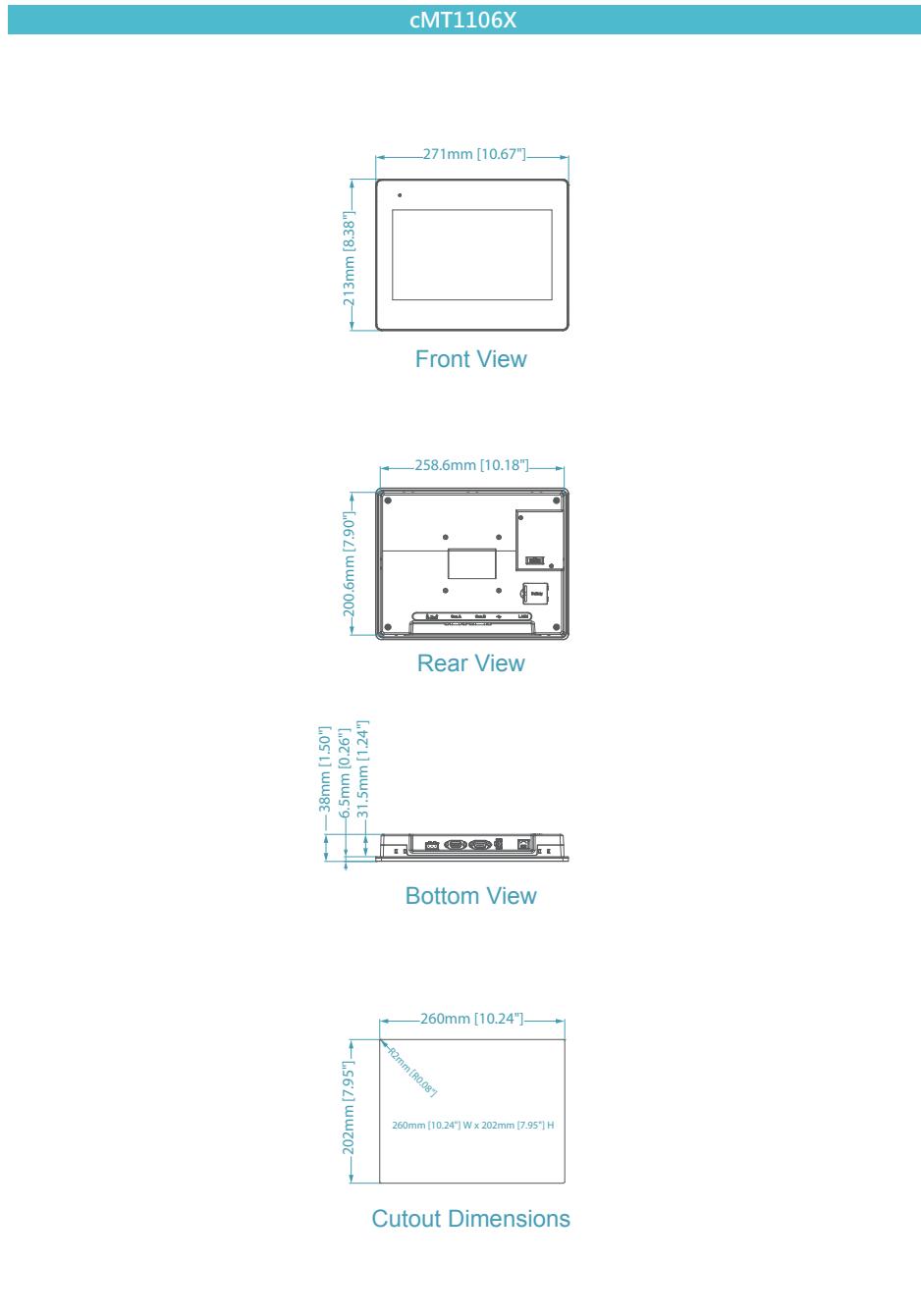
Dimensions

cMT2078X	cMT2108X2	cMT2128X	cMT2158X	cMT2166X
 Front View				
 Rear View				
 Bottom View				
 Cutout Dimensions				

Basic Model

Specifications & Dimensions

Model		cMT1106X
Display	Display	10.1" TFT
	Resolution	1024 x 600
Brightness (cd/ m ²)		350
Contrast Ratio		500:1
Backlight Type		LED
Backlight Life Time		>50,000 hrs.
Colors		16.7M
LCD Viewing Angle (T/B/L/R)		70/70/80/80
Pixel Pitch (mm)		0.2175 (H) x 0.2088 (V)
Touch Panel	Type	4-wire Resistive Type
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%
Memory	Flash	4 GB
	RAM	1 GB
Processor		Quad-core RISC
I/O Port	USB Host	USB 2.0 x 1
	Ethernet	10/100 Base-T x 1
	WiFi	M02 WiFi Expansion Module (Optional)
	COM Port	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W*
RTC		Built-in
Power	Input Power	24±20%VDC
	Power Isolation	Built-in
	Power Consumption	720mA@24VDC
	Voltage Resistance	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC
Specification	PCB Coating	Yes
	Enclosure	Plastic
	Dimensions WxHxD	271 x 213 x 38 mm
	Panel Cutout	260 x 202 mm
	Weight	Approx. 1.2 kg
	Mount	Panel mount, VESA mount 75 x 75 mm
Environment	Protection Structure	NEMA4 / IP66 Compliant Front Panel
	Storage Temperature	-20° ~ 60° C (-4° ~ 140° F)
	Operating Temperature	0° ~ 50° C (32° ~ 122° F)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Certificate	CE	CE marked
Software	Weincloud	EasyAccess 2.0 (Optional) Dashboard (Optional)
	CODESYS	N/A



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

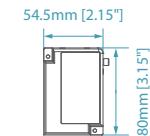
Accessories

Specifications & Dimensions

Model		M02
Network	WiFi	IEEE 802.11 b/g/n 802.11b: max 19.76 dBm 802.11g: max 19.93 dBm 802.11n: max 19.99 dBm
I/O Port	SMA Female Connector	1
	Male Connector to HMI	1
Power	Input Power	5VDC
	Power Consumption	900mA@5VDC (powered by HMI)
	Voltage Resistance	500VAC (1min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC
Specification	PCB Coating	N/A
	Enclosure	Plastic
	Dimensions WxHxD	54.5 x 80 x 24.1 mm
	Weight	Approx. 80 g
	Mount	HMI connector + diagonal screw fastening
Environment	Protection Structure	M02: IP20 Compliant Antenna: IP66 Compliant
	Storage Temperature	-20° ~ 60° C (-4° ~ 140° F)
	Operating Temperature	0° ~ 55° C (32° ~ 131° F)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Certificate	CE	CE marked
	UL	cULus Listed



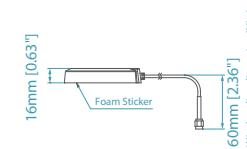
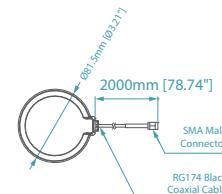
M02	
54.5mm [2.15"]	80mm [3.15"]



Front View



Side View

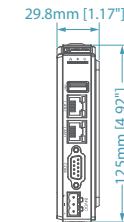


Antenna

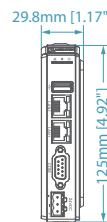
Headless HMI

Specifications & Dimensions

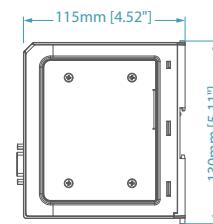
Model	cMT-FHDX-820	cMT-SVRX-820 / 822	cMT-FHDX-820	cMT-SVRX-820 / 822
Memory	Flash	4 GB	4 GB	
	RAM	1 GB	1 GB	
Processor	Quad-core RISC			
I/O Port	SD Card Slot	N/A	Micro SD x1	
	USB Host	USB 2.0 x 1	USB 2.0 x 1	
	Ethernet	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1	
	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	
	HDMI	Customizable (max. resolution 1920 x 1080)	N/A	
	Recommended Resolutions (Please use these recommended screen resolutions to avoid compatibility issues.)	720x480 / 720x576 / 800x600 1024x768 / 1280x720 1366x768 / 1920x1080	N/A	
RTC	Built-in			
	Power	24±20%VDC	24±20%VDC	
Power	Input Power	Built-in	Built-in	
	Power Isolation	850mA@24VDC	850mA@24VDC	
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	
	Isolation Resistance	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	
	PCB Coating	Yes	Yes	
Specification	Enclosure	Plastic	Plastic	
	Dimensions WxHxD	29.8 x 130 x 115 mm	29.8 x 130 x 115 mm	
	Weight	Approx. 0.24 kg	Approx. 0.24 kg	
	Mount	35 mm DIN rail mounting	35 mm DIN rail mounting	
	Protection Structure	IP20	IP20	
Environment	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)	
	Certification	CE marked	CE marked	
Software	CE	CE marked	CE marked	
	UL	cULus Listed	cULus Listed	
Weincloud	Weincloud	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Built-in) Dashboard (Optional)
	CODESYS	Optional	Optional	



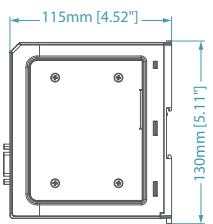
Front View



Front View



Side View



Side View



Top View



Top View



Bottom View

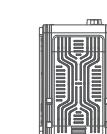
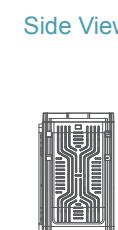
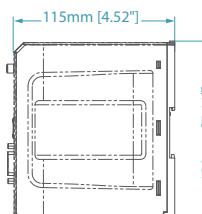
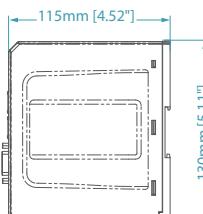
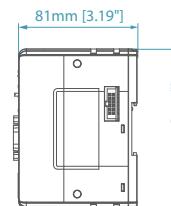
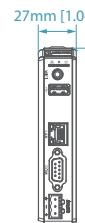
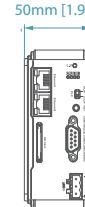


Bottom View

Other Model

Specifications & Dimensions

Model	cMT-CTRL01	cMT-SVR-100 / 102	cMT-SVR-200 / 202	cMT-CTRL01	cMT-SVR-100 / 102	cMT-SVR-200 / 202
Memory						
Flash	4 GB	256 MB	256 MB			
RAM	512 MB	256 MB	256 MB			
Data, Memory, Code	3 MB	N/A	N/A			
Retain area	16 KB (every minute) (Kept after reboots)	N/A	N/A			
Persistent area	16 KB (every minute) (Kept after downloads)	N/A	N/A			
File system	8MB	N/A	N/A			
Processor	Dual-Core 32 bits RISC 1GHz	32-bit RISC 600MHz	32-bit RISC 600MHz			
I/O Port						
SD Card Slot	SD/SDHC	SD/SDHC	SD/SDHC			
USB Host	N/A	USB 2.0 x 1	USB 2.0 x 1			
Ethernet	Ethernet 1: 10/100/1000 Base-T x 1 Ethernet 2: 10/100 Base-T x 1	10/100/1000 Base-T x 2	10/100/1000 Base-T x 1			
WiFi	N/A	N/A	IEEE 802.11 b/g/n 802.11b: max 18.01 dBm 802.11g: max 11.02 dBm 802.11n: max 12.20 dBm			
COM Port	COM1: RS-232 2W COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 2W COM2: RS-485 2W/4W COM3: RS-485 2W			
Local bus	iBus	N/A	N/A			
CODESYS	Protocol	Modbus TCP/IP Master, EtherCAT Master	N/A	N/A		
RTC						
Power						
Input Power	24±20%VDC	24±20%VDC	10.5~28VDC			
Power Isolation	Built-in	Built-in	Built-in			
Current for Internal Bus	Max 2A@5VDC	N/A	N/A			
Current Consumption	550mA@5VDC	N/A	N/A			
Power Consumption	Nominal 310mA@24VDC	230mA@24VDC	1A@12VDC ; 450mA@24VDC			
Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)			
Isolation Resistance	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC			
Specification						
PCB Coating	Yes	Yes	Yes			
Enclosure	Plastic	Plastic	Plastic			
Dimensions WxHxD	50 x 109 x 81 mm	27 x 130 x 115 mm	27 x 130 x 115 mm			
Weight	Approx. 0.24 kg	Approx. 0.18 kg	Approx. 0.18 kg			
Mount	35 mm DIN rail mounting	35 mm DIN rail mounting	35 mm 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	-10° ~ 50° C (14° ~ 122° F)	-20° ~ 55° C (-4° ~ 131° F)	-10° ~ 55° C (14° ~ 131° 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			
UL	cULus Listed	cULus Listed	cULus Listed			
Software						
Weincloud	EasyAccess 2.0 (Optional)	EasyAccess 2.0 (Optional)	EasyAccess 2.0 (Built-in)	EasyAccess 2.0 (Optional)	EasyAccess 2.0 (Built-in)	
CODESYS	Built-in	N/A	N/A	N/A		





Communication Interface

iR Series 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, EtherNet/IP adapter	CANopen Slave	EtherCAT Slave
Isolation		Network to Logic Isolation : Yes	CAN bus Isolation : Yes	Network to Logic Isolation : Yes
Power	Power Supply	24 VDC (-15%/+20%)	24 VDC (-15%/+20%)	24 VDC (-15%/+20%)
	Power Consumption	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
	Power Isolation	Yes	Yes	Yes
	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
	UL	cULus Listed	cULus Listed	cULus Listed



Communication Interface

Specifications

	Model	iR-ETN40R
Expansion I/O Module		
No. of Bus Terminals		Depends on Power Consumption
Digital Input Point		Max. 224
Digital Output Point		Max. 112
Analog Input Channel		Max. 64
Analog Output Channel		Max. 64
Data Transfer Rate		10/100 Mbps
Max. Number of TCP/IP Connections		8 connections
Protocol		Modbus TCP Server, EtherNet/IP adapter
Isolation		Network to Logic Isolation : Yes
No. of Ports		1
Digital Output		
Total Number of Outputs		16
Output Logic		Relay
Output Voltage		250VAC/30VDC
Output Current		2A per channel (Max 8A)
Digital Input		
Total Number of Inputs		24
General Input		
Input Logic		Sink or Source
Number of Inputs		20
Logic 1 Input Voltage		15~28 VDC
Logic 0 Input Voltage		0~5 VDC
Input Impedance		5.6 KΩ
Number of Inputs		4
Input Logic		SINK INPUT (PNP)
Logic 1 Input Voltage		15~28 VDC
Logic 0 Input Voltage		0~5 VDC
Max. Input Frequency		20KHz
Input Impedance		3 KΩ
Isolation		Input: Yes, optical isolation, Output: Yes, electromagnetic isolation
Power		
Power Supply		24 VDC (-15%/+20%)
Power Consumption		Nominal 255mA @ 24VDC
Current for Internal Bus		Max 2A @ 5VDC
Current Consumption		520mA @ 5VDC
Power Isolation		Yes
Back-up Fuse		≤ 1.6A Self-recovery
PCB Coating		Yes
Enclosure		Plastic
Dimensions WxHxD		64x 109 x 81 mm
Weight		Approx. 0.27 kg
Mount		35mm DIN rail mounting
Specification		
Protection Structure		IP20
Storage Temperature		-20° ~ 70° C (-4° ~ 158° F)
Operating Temperature		-10° ~ 60° C (14° ~ 140° F)
Relative Humidity		10% ~ 90% (non-condensing)
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
Environment		
Certificate		

Digital Input/Output

Specifications

						
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	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)
Isolation	Input: Optical Isolation Output: N/A	Input: Optical Isolation Output: Optical Isolation	Input: Optical Isolation Output: Optical Isolation	Input: N/A Output: Optical Isolation	Input: N/A Output: Optical Isolation	Input: N/A Output: Electromagnetic Isolation
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, Class A; EN 61000-6-4: 2007+A1:2011; EN 55024: 2010+A1: 2015; EN 61000-6-2:2005				
	UL	cULus Listed				

Analog Input/Output

Specifications

			
Number of Analog Inputs	4 ($\pm 10V / \pm 20mA$)	4 ($\pm 10V / \pm 20mA$)	0
Number of Analog outputs	0	2 ($\pm 10V / \pm 20mA$)	4 ($\pm 10V / \pm 20mA$)
Current Consumption	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: 2007+A1:2011; EN 55024: 2010+A1: 2015; EN 61000-6-2:2005	
	UL	cULus Listed	

Temperature

Specifications

	Model	iR-AI04-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 Enclosure Dimensions WxHxD Weight Mount	Yes Plastic 27 x 109 x 81 mm Approx. 0.12 kg 35mm DIN rail mounting
Environment	Protection Structure Storage Temperature Operating Temperature Relative Humidity	IP20 -20° ~ 70° C (-4° ~ 158° F) 0° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing)
Connection	Cross-section	AWG 28-16
Certification	EMC Immunity UL	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 cULus Listed



Motion Control

Specifications

	Model	iR-PU01-P
Input Logic	Digital input/ output	Differential input/ output
Number of Inputs	Sink Input	Differential Input
Output Logic	4	3 (A/B/Z phase)
Number of Outputs	Source Output	Differential Output
HIGH Level Input Voltage	4	2(A/B phase)
LOW Level Input Voltage	15~28 VDC	-
Input current	0~5 VDC	-
Input Impedance	24 VDC, 5 mA	Meets the Requirements of ANSI Standards TIA/EIA-485-A
Indicators	3 KΩ	-
Output Voltage	Red LED Input State	Meets the Requirements of ANSI Standards TIA/EIA-485-A
Output Current	24VDC	
Max. input frequency	50 mA	2MHz
Max. Output frequency	200KHz	2MHz
Number of Axis	40KHz	
Specification	1- Axis	
PCB Coating Enclosure	Yes	
Dimensions WxHxD	Plastic	
Weight	27 x 109 x 81 mm	
Mount	Approx. 0.12 kg	
Environment	35mm DIN rail mounting	
Protection Structure Storage Temperature Operating Temperature Relative Humidity	IP20 -20° ~ 70° C (-4° ~ 158° F) 0° ~ 55° C (32° ~ 131° F) 10% ~ 90% (non-condensing)	
Connection	Cross-section	AWG 28-16
Certification	EMC Immunity UL	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 cULus Listed



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