![WEINTEK]

CMT X Series

Fast x Smart x Reliable

cMT X Series

Full Featured Smart HMI

The cMT X Series goes beyond its outstanding performance by integrating innovative features such as data integration, mobile monitoring, and cloud services. It's the smart HMI you need.

Premium Protection⁺

Power Isolation

PCB Coating

NEMA4/ IP66

CE / UL Certification

☑ **Performance**
Quad-core CPU

☑ **Display**
178° Wide Viewing Angle

☑ **Capacity**
4GB Flash / 1GB RAM

☑ **Connectivity**
400+ Communication Drivers

Solution 01

EasyBuilder Pro - Efficient HMI Editing Software

Download EasyBuilder Pro for free and easily create your unique HMI interface. User-friendly and intuitive editing interface makes it simple for beginners to pick up quickly.

Ribbon Style

Intuitive ribbon-style toolbar for easy setup.

JS-related

JavaScript object support and Web API integration.

Combo Button

Multiple action settings and triggers with one click.

Trigger Condition

If / else conditions by HMI addresses.

Picture Libraries

Built-in library with 2,000+ pictures.

Window Tree

Clear project management with layered view.

EasyBuilder Pro not only includes essential HMI editing features but also introduces a range of powerful advanced tools for practical applications:

Advanced Security Mode

Log in via RFID and fingerprint to enhance access security.

Multimedia Support

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

Fast Display Mode

Objects cache data for quick display after window switches.

Data Processing

Synchronize historical data of Data Log, Event Log, and Operation Log to an external database to ensure data integrity.

Back Up

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.

www.weintek.com

Solution 02

Data Integration - Support Diverse Industrial Protocols

The cMT X Series supports over 400 PLC drivers and IIoT protocols. It enables seamless data integration for the field devices.

Solution 03

Mobile Monitoring - Stay Updated Anytime

Weintek offers three monitoring methods: cMT Viewer, WebView, and VNC Viewer. Users can choose the suitable tool to easily track the status of the devices.

VNC Viewer
- Screen mirroring
- Use VNC Client App

WebView
- Screen mirroring
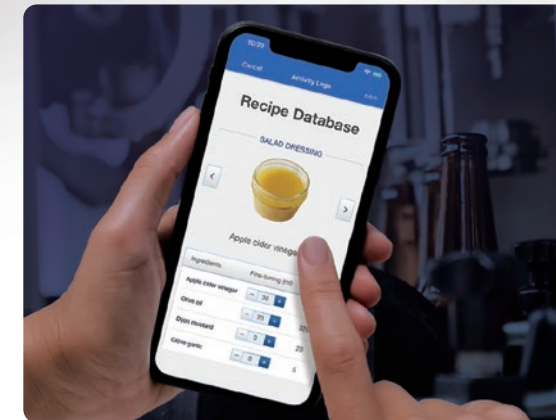- Use web browsers such as Chrome or Safari

cMT Viewer App
- Simultaneous multi-screen control
- Use electronic devices to access the cMT Viewer App
- Support one-to-many devices (up to 50) and multi-user-to-one monitoring
- Exclusively support HMI control function

Three Mobile Monitoring Methods

Industrial Protocol Integration

Break barriers in communication and improve data exchange efficiency.

The cMT X Series supports:
OPC UA protocol
Modbus TCP/IP protocol
BACnet protocol

MQTT Cloud Integration

Support the lightweight MQTT protocol for quick IIoT device connectivity.

Download EasyBuilder Pro to connect to:
AWS Cloud Platform
Azure Cloud Platform

Database Integration

Support database integration to streamline field data into IT systems.

Compatible with databases:
MySQL
MS SQL
MariaDB
Azure SQL

Solution 04-1

Weincloud - Dashboard

Weincloud includes Dashboard, a cloud service, and EasyAccess 2.0, a remote connection tool. Track and maintain field equipment anytime, even from a distance.

Visualized Numerical Data

- Integrate data from multiple HMIs
- Display clear production process
- Provide assistance in decision-making

Intuitive User Interface

Create custom dashboards quickly with a variety of widgets by drag-and-drop function.

Real-time Data Display

- Present real-time production status
- Assist in efficient issue solving

Dashboard

The Dashboard provides a bird's-eye view of on-site data. Managers can oversee field condition anytime, anywhere through a web browser or mobile apps.

6 Steps to Deploy

Free from the need for equipment installation. Reduce system integration effort.

Data Encryption

Protect all data transmissions with SSL/TLS encryption.

Data Backup and Synchronization

Support data caching to prevent loss.

Solution 04-2

Weincloud - EasyAccess 2.0

Even when not on-site, you can monitor and troubleshoot program in the HMI anytime and anywhere.
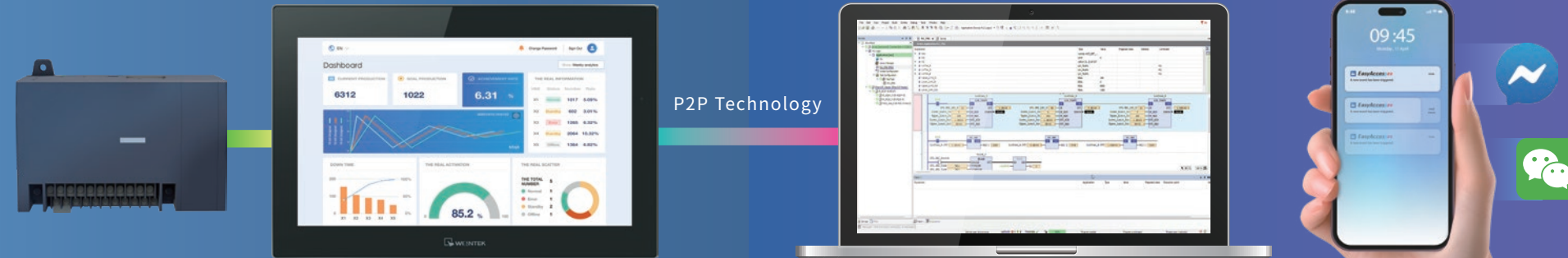

EasyAccess2.0

PLC Pass-through

Remote HMI/PLC pass-through to synchronize adjustments

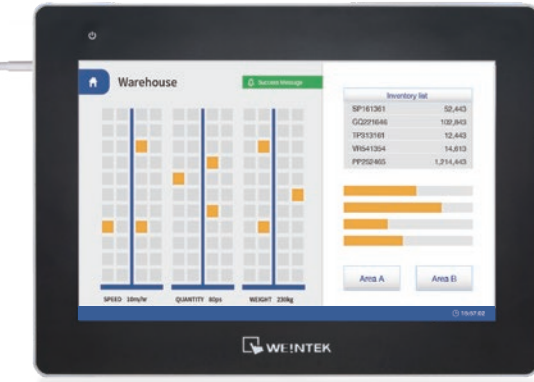Push Notifications via Messenger, WeChat, and EasyAccess2.0

P2P Technology

Solution 05

WiFi Expansion Module – Wireless Network Solution

This WiFi module offers flexible networking options, ideal for mobile equipment and hard-to-wire environments.

cMT X Series + M02 WiFi Module

cMT2108X2 / cMT3102X / cMT3108XH / cMT3108XP
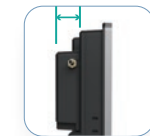
Magnetic External Antenna
Install at the location with optimal signal.

WiFi Support
Support WiFi standards, IEEE 802.11b/g/n.

Compact Design
Minimize protrusion when installed on the HMI, avoiding space issues in control cabinet installation.

Modular Design
Add wireless network for HMIs to help overcome wiring obstacles.

Solution 06

Headless HMI

With the panel removed, the HMI body becomes lighter and slimmer. It's easier to install in control chassis and compatible with various screen sizes.

cMT-FHDX-820

Supporting audio and video output via HDMI, its size and resolution are not limited by current HMI offerings. Its 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 required for mobile monitoring.

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

cMT X Series Model Types

Standard
Enhanced for smart applications

The cMT X Standard features video streaming and mobile monitoring, along with advanced EasyBuilder Pro objects to meet diverse application needs.

Advanced
All-around smart HMI

The cMT X Advanced offers the most comprehensive HMI and EasyBuilder Pro features. It supports various IIoT protocols, and excels in cross-platform data integration.

Headless HMI
Going beyond size boundaries

Headless HMI works independently without a screen and can be monitored on apps or on external screens of various sizes.

Naming Convention

cMT 3 07 2 X *

Series Name
cMT X

Category
2 Standard
3 Advanced

Screen Size
05 4.3 "
07 7 "
09 9.7 "
10 10.1 "
12 12.1 "
15 15 "
16 15.6 "

Ethernet Port
2 Dual Ethernet Ports
6 Single Ethernet Port
8 Dual Ethernet Ports

Others
H High Resolution
T Wide Temperature
P Projected Capacitive Touch (PCAP)

Model		cMT3072XH2	cMT3072XHT	cMT3072XP	cMT3092X
Display	Display	7" WVA	7" WVA	7" WVA	9.7" WVA
	Resolution	1024 x 600	1024 x 600	1024 x 600	1024 x 768
	Brightness (cd/ ㎡)	450	450	450	350
	Contrast Ratio	800:1	800:1	800:1	900:1
	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	16.2M
	LCD Viewing Angle (T/B/L/R)	85/85/85/85	85/85/85/85	85/85/85/85	89/89/89/89
	Pixel Pitch (mm)	0.1506(H) x 0.1432(V)	0.1506(H) x 0.1432(V)	0.1506(H) x 0.1432(V)	0.192(H) x 0.192(V)
Touch Panel	Type	4-wire Resistive Type	4-wire Resistive Type	Tempered Glass, Capacitive Type Hardness Scale 7H	4-wire Resistive Type
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%	N/A	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	USB 2.0 x 1	USB 2.0 x 1	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 Con.B: COM1 RS-232 4W, COM3 RS-232 2W*
	CAN Bus	Yes	Yes	Yes	N/A
	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	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC
Specification	PCB Coating	Yes	Yes	Yes	Yes
	Enclosure	Plastic	Aluminum	Plastic	Plastic
	Dimensions WxHxD	200.3 x 146.3 x 35.0 mm	200.4 x 146.5 x 36.0 mm	200.3 x 146.3 x 36.9 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. 0.8 kg	Approx. 0.7 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)	-20° ~ 55° C (-4° ~ 131° 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)	10% ~ 90% (non-condensing)
	Altitude	3,000 meters	3,000 meters	3,000 meters	3,000 meters
	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
Software	Weincloud	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)
	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.
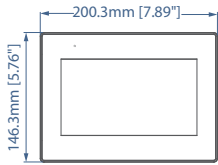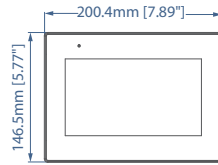
Capacitive Type   Wide Viewing Angle

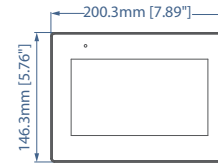| cMT3072XH2	cMT3072XHT	cMT3072XP	cMT3092X

cMT3072XH2

← 200.3mm [7.89"] →

146.3mm [5.76"]

Front View

← 189.6mm [7.46"] →

135.6mm [5.34"]

Rear View

35mm [1.38"]
7.4mm [0.29"]

Bottom View

← 192mm [7.56"] →

138mm [5.43"]

192mm [7.56"] W x 138mm [5.43"] H

Cutout Dimensions

cMT3072XHT

← 200.4mm [7.89"] →

146.5mm [5.77"]

Front View

← 190.6mm [7.50"] →

136.6mm [5.38"]

Rear View

36mm [1.42"]
6.4mm [0.25"]
29.6mm [1.17"]

Bottom View

← 192mm [7.56"] →

138mm [5.43"]

192mm [7.56"] W x 138mm [5.43"] H

Cutout Dimensions

cMT3072XP

← 200.3mm [7.89"] →

146.3mm [5.76"]

Front View

← 189.6mm [7.46"] →

135.6mm [5.34"]

Rear View

36.9mm [1.45"]
9.3mm [0.37"]

Bottom View

← 192mm [7.56"] →

138mm [5.43"]

192mm [7.56"] W x 138mm [5.43"] H

Cutout Dimensions

cMT3092X

← 260.6mm [10.26"] →

203.1mm [8.00"]

Front View

← 247.7mm [9.75"] →

190.2mm [7.49"]

Rear View

44.5mm [1.75"]
7.9mm [0.31"]

Bottom View

← 250mm [9.84"] →

R4mm (R0.16")

192mm [7.56"]

250mm [9.84"] W x 192mm [7.56"] H

Cutout Dimensions

Advanced Model
Specifications

Model	cMT3102X	cMT3108XH	cMT3108XP	cMT3162X
Display				
Display	10.1" WVA	10.1" WVA	10.1" WVA	15.6" WVA
Resolution	1024 x 600	1280 x 800	1280 x 800	1920 x 1080
Brightness (cd/ ㎡)	350	500	425	300
Contrast Ratio	1000:1	800:1	800:1	800:1
Backlight Type	LED	LED	LED	LED
Backlight Life Time	>50,000 hrs.	>50,000 hrs.	>50,000 hrs.	>30,000 hrs.
Colors	16.7M	16.7M	16.7M	16.2M
LCD Viewing Angle (T/B/L/R)	89/89/89/89	89/89/89/89	89/89/89/89	89/89/89/89
Pixel Pitch (mm)	0.2175 (H) x 0.2088 (V)	0.1695 (H) x 0.1695 (V)	0.1695 (H) x 0.1695 (V)	0.17925(H) x 0.17925(V)
Touch Panel				
Type	4-wire Resistive 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%	Active Area Length(X)±2%, Width(Y)±2%	N/A	N/A
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	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	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1
WiFi	M02 WiFi Expansion Module (Optional)	M02 WiFi Expansion Module (Optional)	M02 WiFi Expansion Module (Optional)	N/A
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: COM1 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	Built-in Mono Speaker	Built-in Mono Speaker	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	1A@24VDC	700mA@24VDC	700mA@24VDC	1.3A@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	Front bezel: Plastic, Rear Enclosure: Aluminum
Dimensions WxHxD	271 x 213 x 38 mm	266 x 196 x 40 mm	266 x 196 x 42.7 mm	400 x 263 x 27.6 mm
Panel Cutout	260 x 202 mm	255 x 185 mm	255 x 185 mm	384 x 247 mm
Weight	Approx. 1.2 kg	Approx. 1.1 kg	Approx. 1.1 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 75 x 75 mm	Panel mount, VESA mount 100 x 100 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	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° ~ 50° C (32° ~ 122° F)	0° ~ 55° C (32° ~ 131° 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)	10% ~ 90% (non-condensing)
Altitude	3,000 meters	3,000 meters	3,000 meters	3,000 meters
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
ATEX	ATEX Zone 2/22 Category 3 G/D	ATEX Zone 2/22 Category 3 G/D	ATEX Zone 2/22 Category 3 G/D	N/A
Software				
Weincloud	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)
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.
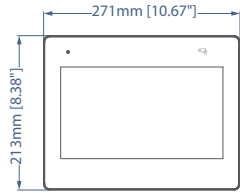*RFID : 13.56 MHz, Reading Distance: Max. 4cm, ISO/IEC 14443 Type A/B standard.

RFID   Vibration Alert   Capacitive Type   Wide Viewing Angle
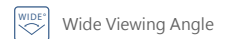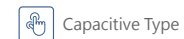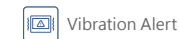
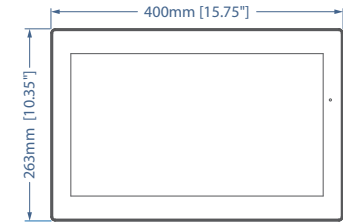# Advanced Model

Dimensions

cMT3102X	cMT3108XH	cMT3108XP	cMT3162X
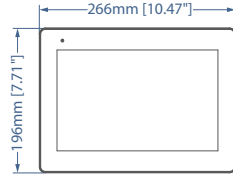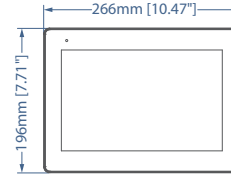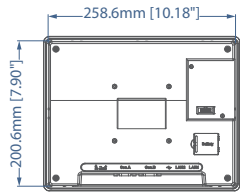
cMT3102X

271mm [10.67"]
213mm [8.38"]

Front View

258.6mm [10.18"]
200.6mm [7.90"]

Rear View

38mm [1.50"]
6.5mm [0.26"]
31.5mm [1.24"]

Bottom View

260mm [10.24"]
202mm [7.95"]
R2mm [R0.08"]
260mm [10.24"] W x 202mm [7.95"] H

Cutout Dimensions

cMT3108XH

266mm [10.47"]
196mm [7.71"]

Front View

253.6mm [9.98"]
183.6mm [7.23"]

Rear View

40mm [1.57"]
6.5mm [0.26"]
33.5mm [1.32"]

Bottom View

255mm [10.04"]
185mm [7.28"]
R2mm [R0.08"]
255mm [10.04"] W x 185mm [7.28"] H

Cutout Dimensions

cMT3108XP

266mm [10.47"]
196mm [7.71"]

Front View

253.6mm [9.98"]
183.6mm [7.23"]

Rear View

42.7mm [1.68"]
9.3mm [0.37"]
33.4mm [1.31"]

Bottom View

255mm [10.04"]
185mm [7.28"]
R2mm [R0.08"]
255mm [10.04"] W x 185mm [7.28"] H

Cutout Dimensions

cMT3162X

400mm [15.75"]
263mm [10.35"]

Front View

382mm [15.03"]
100mm [3.94"]
100mm [3.94"]
245mm [9.64"]

Rear View

24.9mm [0.98"]
15mm [0.59"]
27.6mm [1.09"]

Bottom View

384mm [15.12"]
247mm [9.72"]
384mm [15.12"] W x 247mm [9.72"] H
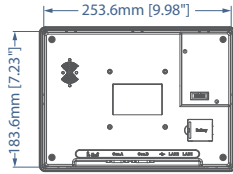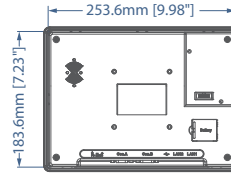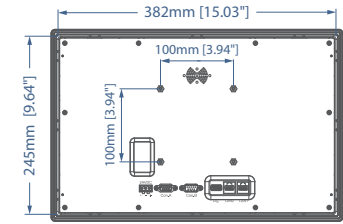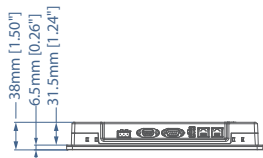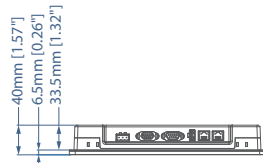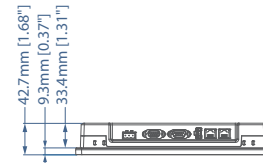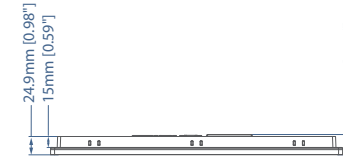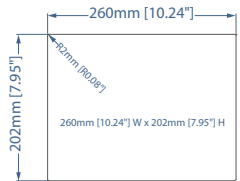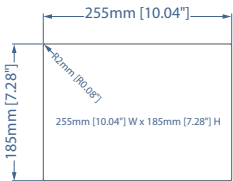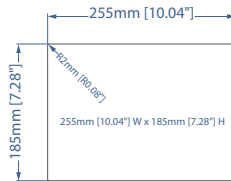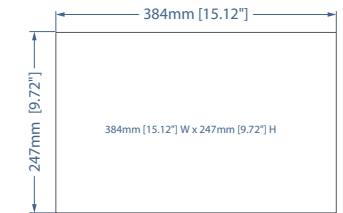
Cutout Dimensions

Standard Model
Specifications

Model	cMT2058XH	cMT2078X	cMT2108X2
Display			
Display	4.3" WVA	7" TFT	10.1" WVA
Resolution	800 x 480	800 x 480	1024 x 600
Brightness (cd/㎡)	530	400	350
Contrast Ratio	800:1	800:1	1000:1
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)	80/80/80/80	80/60/80/80	89/89/89/89
Pixel Pitch (mm)	0.1188 (H) x 0.1122 (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	4 GB	4 GB	4 GB
RAM	1 GB	1 GB	1 GB
Processor	Quad-core RISC	Quad-core RISC	Quad-core RISC
I/O Port			
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 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
WiFi	N/A	N/A	M02 WiFi Expansion Module (Optional)
COM Port	COM1: RS-232/RS-485 2W/4W, COM3 RS-485 2W	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W*	Con.A: COM2 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
Power			
Input Power	24±20%VDC	24±20%VDC	24±20%VDC
Power Isolation	Built-in	Built-in	Built-in
Power Consumption	510mA@24VDC	820mA@24VDC	1A@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	128 x 102 x 32 mm	200.3 x 146.3 x 35.0 mm	271 x 213 x 38 mm
Panel Cutout	119 x 93 mm	192 x 138 mm	260 x 202 mm
Weight	Approx. 0.27 kg	Approx. 0.6 kg	Approx. 1.2 kg
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
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)
Altitude	3,000 meters	3,000 meters	3,000 meters
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) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)
CODESYS	Optional	Optional	Optional

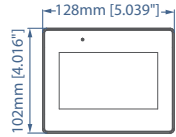*Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.
*The cMT2108X2 (V2) / cMT2158X (V2) product label indicates MPI support, while the original cMT2108X2 / cMT2158X label does not.
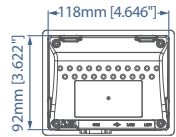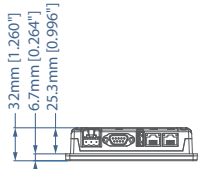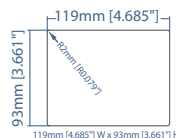
WIDE° Wide Viewing Angle

Standard Model
Dimensions

cMT2058XH	cMT2078X	cMT2108X2

cMT2058XH

128mm [5.039"]
102mm [4.016"]

Front View

118mm [4.646"]
92mm [3.622"]

Rear View

32mm [1.260"]
6.7mm [0.264"]
25.3mm [0.996"]

Bottom View

119mm [4.685"]
93mm [3.661"]
119mm [4.685"] W x 93mm [3.661"] H

Cutout Dimensions
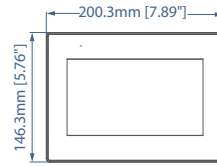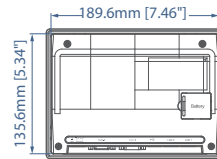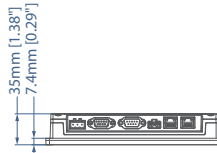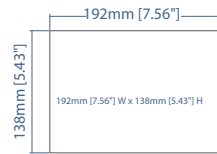
cMT2078X

200.3mm [7.89"]
146.3mm [5.76"]

Front View

189.6mm [7.46"]
135.6mm [5.34"]

Rear View

35mm [1.38"]
7.4mm [0.29"]

Bottom View

192mm [7.56"]
138mm [5.43"]
192mm [7.56"] W x 138mm [5.43"] H

Cutout Dimensions

cMT2108X2

271mm [10.67"]
213mm [8.38"]

Front View

258.6mm [10.18"]
200.6mm [7.90"]

Rear View

38mm [1.50"]
6.5mm [0.26"]
31.5mm [1.24"]
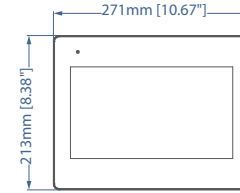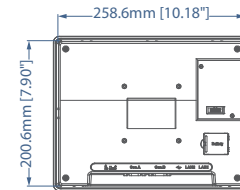
Bottom View
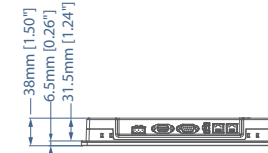
260mm [10.24"]
202mm [7.95"]
260mm [10.24"] W x 202mm [7.95"] H
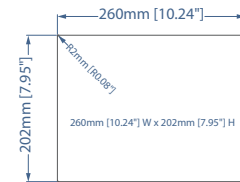
Cutout Dimensions

Standard Model
Specifications

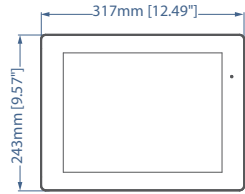| Model	cMT2128X	cMT2158X	cMT2166X
Display			
Display	12.1" WVA	15" WVA	15.6" WVA
Resolution	1024 x 768	1024 x 768	1920 x 1080
Brightness (cd/ ㎡)	500	350	300
Contrast Ratio	1000:1	2500:1	800:1
Backlight Type	LED	LED	LED
Backlight Life Time	>30,000 hrs.	>70,000 hrs.	>30,000 hrs.
Colors	16.7M	16.2M	16.2M
LCD Viewing Angle (T/B/L/R)	89/89/89/89	88/88/88/88	89/89/89/89
Pixel Pitch (mm)	0.240 (H) x 0.240 (V)	0.297(H) x 0.297(V)	0.17925(H) x 0.17925(V)
Touch Panel			
Type	4-wire Resistive Type	4-wire Resistive Type	Tempered Glass, Capacitive Type Hardness Scale 7H
Accuracy	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%	N/A
Memory			
Flash	4 GB	4 GB	4 GB
RAM	1 GB	1 GB	1 GB
Processor	Quad-core RISC	Quad-core RISC	Quad-core RISC
I/O Port			
SD Card Slot	Micro SD x 1	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	10/100 Base-T x 1
COM Port	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W*	Con.A: COM1 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W*	Con.A: COM1 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W*
Audio Output	N/A	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	1.2A@24VDC	1.3A@24VDC	0.9A@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	Aluminum	Front bezel: Plastic, Rear Enclosure: Aluminum
Dimensions WxHxD	317 x 243 x 41 mm	366 x 293 x 48.2mm	400 x 263 x 27.6 mm
Panel Cutout	305 x 231 mm	352 x 279 mm	384 x 247 mm
Weight	Approx. 1.7 kg	Approx. 2.74 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
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	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)
Operating Temperature	0° ~ 55° C (32° ~ 131° 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)
Altitude	3,000 meters	3,000 meters	3,000 meters
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	
Software			
Weincloud	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)
CODESYS	Optional	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.
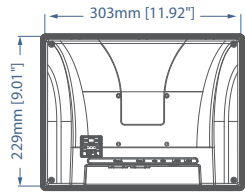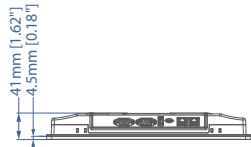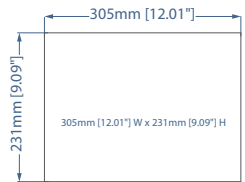
Capacitive Type   Wide Viewing Angle

Standard Model

Dimensions

cMT2128X	cMT2158X	cMT2166X

cMT2128X

317mm [12.49"]
243mm [9.57"]

Front View

303mm [11.92"]
229mm [9.01"]

Rear View

41mm [1.62"]
4.5mm [0.18"]

Bottom View

305mm [12.01"]
231mm [9.09"]

305mm [12.01"] W x 231mm [9.09"] H

Cutout Dimensions

cMT2158X

366mm [14.41"]
293mm [11.54"]

Front View

350mm [13.78"]
277mm [10.91"]

Rear View

48.2mm [1.90"]
24.2mm [0.95"]
6.7mm [0.26"]

Panel-mounting
clamp slots, 12 places

Bottom View

352mm [13.86"]
279mm [10.98"]

352mm [13.86"] W x 279mm [10.98"] H

Cutout Dimensions

cMT2166X

400mm [15.75"]
263mm [10.35"]

Front View

382mm [15.03"]
100mm [3.94"]
100mm [3.94"]
245mm [9.64"]

Rear View

24.9mm [0.98"]
15mm [0.59"]
27.6mm [1.09"]

Bottom View

384mm [15.12"]
247mm [9.72"]

384mm [15.12"] W x 247mm [9.72"] H
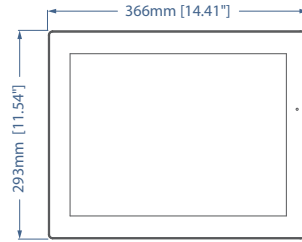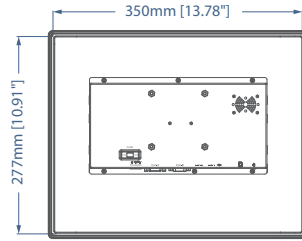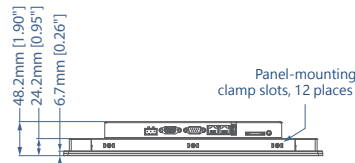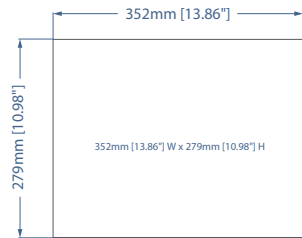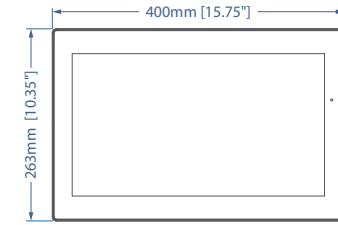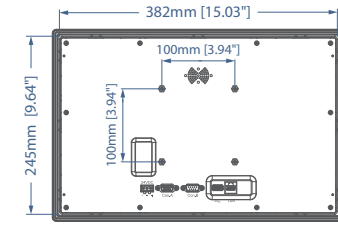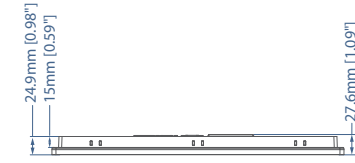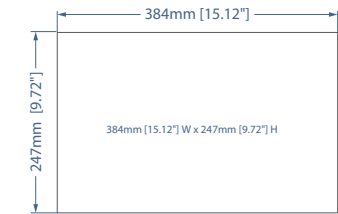
Cutout Dimensions

Headless HMI+Other Model
Specifications

Model	cMT-FHDX-820	cMT-SVRX-820 / 822	cMT-SVR-100 / 102	cMT-SVR-200 / 202
Memory Flash	4 GB	4 GB	256 MB	256 MB
RAM	1 GB	1 GB	256 MB	256 MB
Processor	Quad-core RISC	Quad-core RISC	Single-core RISC	Single-core RISC
I/O Port SD Card Slot	N/A	Micro SD x1	SD/SDHC	SD/SDHC
USB Host	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1
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	10/100/1000 Base-T x 2	10/100/1000 Base-T x 1
WiFi	N/A	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 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
HDMI	Customizable (max. resolution 1920 x 1080)	N/A	N/A	N/A
Recommended Resolutions (Please use these recommended screen resolutions to avoid compatibility issues.)	720x480 / 720x576 / 800x600 / 1024x768 / 1280x720 / 1920x1080	N/A	N/A	N/A
Audio Output	HDMI Audio Output	N/A	N/A	N/A
RTC	Built-in	Built-in	Built-in	Built-in
Power Input Power	24±20%VDC	24±20%VDC	24±20%VDC	10.5~28VDC
Power Isolation	Built-in	Built-in	Built-in	Built-in
Power Consumption	850mA@24VDC	850mA@24VDC	230mA@24VDC	1A@12VDC ; 450mA@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	29.8 x 130 x 115 mm	29.8 x 130 x 115 mm	27 x 130 x 115 mm	27 x 130 x 115 mm
Weight	Approx. 0.24 kg	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	35 mm DIN rail mounting
Environment Protection Structure	IP20	IP20	IP20	IP20
Storage Temperature	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 70° C (-4° ~ 158° F)	-20° ~ 70° C (-4° ~ 158° F)
Operating Temperature	0° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 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)	10% ~ 90% (non-condensing)
Altitude	3,000 meters	3,000 meters	3,000 meters	3,000 meters
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
Software Weincloud	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional) / EasyAccess 2.0 (Built-in) Dashboard (Optional)	EasyAccess 2.0 (Optional) / EasyAccess 2.0 (Built-in)	EasyAccess 2.0 (Optional) / EasyAccess 2.0 (Built-in)
CODESYS	Optional	Optional	N/A	N/A

Accessories
Specifications

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)
Altitude	3,000 meters
Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Certificate CE	CE marked
UL	cULus Listed

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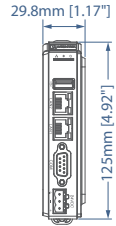
Headless HMI+Other Model
Dimensions

cMT-FHDX-820	cMT-SVRX-820 / 822	cMT-SVR-100 / 102	cMT-SVR-200 / 202

Accessories
Dimensions

M02
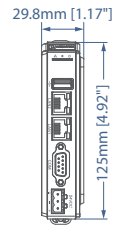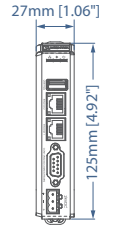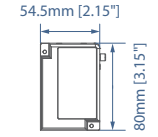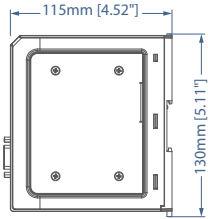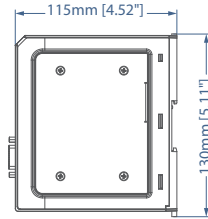
cMT-FHDX-820

29.8mm [1.17"]
125mm [4.92"]

Front View

115mm [4.52"]
130mm [5.11"]

Side View

Top View

Bottom View

cMT-SVRX-820 / 822

29.8mm [1.17"]
125mm [4.92"]

Front View

115mm [4.52"]
130mm [5.11"]

Side View

Top View

Bottom View

cMT-SVR-100 / 102

27mm [1.06"]
125mm [4.92"]

Front View

115mm [4.52"]
130mm [5.11"]

Side View

Top View

Bottom View

cMT-SVR-200 / 202

27mm [1.06"]
125mm [4.92"]

Front View

115mm [4.52"]
130mm [5.11"]

Side View

Top View

Bottom View

M02

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

Front View

24.1mm [0.95"]

Side View

Ø81.5mm [Ø3.21"]
2000mm [78.74"]
SMA Male Connector
RG174 Black Coaxial Cable

16mm [0.63"]
Foam Sticker
60mm [2.36"] Wire bending dimension (Min.)

Antenna

22

WE!NTEK
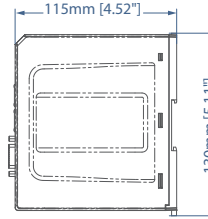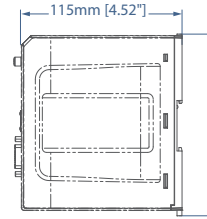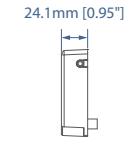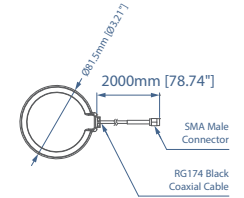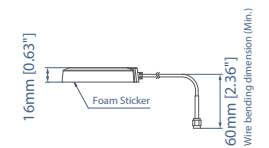
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