WEINTEK
FULL HD 1080p
Outcomes
75%
18,650 / 24,720
NG
150 / 24,720
Pasteurizer (HTST)
Round
tg
Heating
Cooling
Clean
Temp. Devices
Monthly Report
Operate
10
Raw Materials
CMT Series
"Future X Interface"
We provide the most advanced and stable HMI product solutions

# 1 IIoT Solution

# EasyAccess 2.0

« Factory Office »

For More Info!

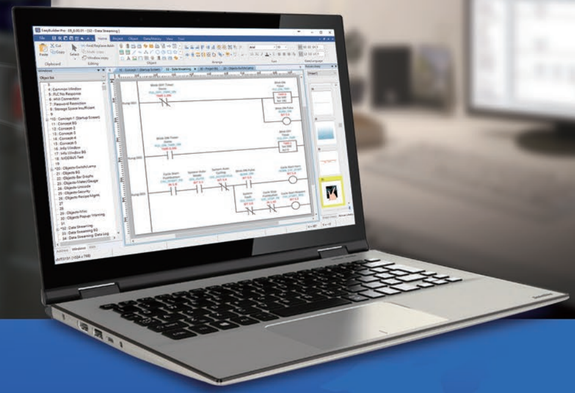
The HMI is not just for operating machines, collecting and managing data, but also plays a key role in IIoT as a Communication Gateway. The data in the device connected to HMI can be published to IIoT system.

## 1. Push Notification

- Get notified on the mobile phone, wherever you might be.

## 2. Pass-Through

- EasyAccess 2.0 can remotely debug or update devices without adjusting firewall settings.
- Tune or reprogram remote devices while using their original software.



## 3. Remote Monitoring

- Monitor and control the remote machine with VNC or cMT Viewer. (available on PC/ iOS/ Android)

2

IIoT Solution

# OPC UA

## cMT-G01/G02/G03/G04 Features

With the de-facto IIoT protocols standard: OPC UA built-in, cMT-G01/cMT-G02/cMT-G03/cMT-G04 can well fit into lots of applications to provide a standard communication interface, and then to integrate real time data from different devices.

**OPC UA**
Support OPC UA

DF1 | S7-1200 | MPI | MC Protocol | IEC 104

300+ Protocols Supported

OPC UA

## OPC UA

Built-in OPC UA server & client. OPC UA Server officially certified for compliance by the OPC Foundation can ensure seamless device integration in any application.

Web server can be used to change OPC UA communication settings, add/modify/delete OPC UA nodes and their corresponding PLC data, or change PLC communication parameters (Serial or Ethernet).

CERTIFIED
OPC UA
FOUNDATION

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

For More Info!



## cMT-G01/G02/G03/G04

The Smart Communication Gateway with Data Processing Capability of an HMI to Facilitate IIoT Integration.

3 IIoT Solution

# Cloud Data Centering

For More Info!

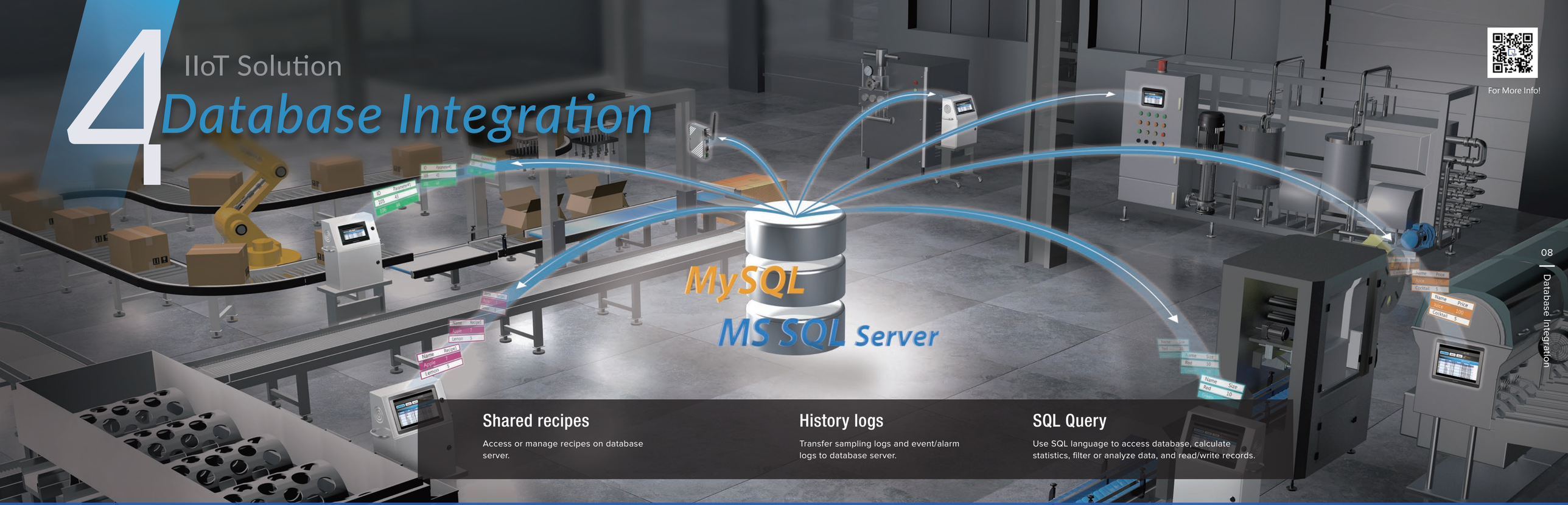
## MQTT via AWS IOT, IBM Cloud, Microsoft Azure, and Alibaba Cloud

Built-in MQTT server & client supporting direct connection with the market's most common cloud computing platforms enables connection with cost-effective and reliable ready-to-use MQTT server (broker).

* IBM, Bluemix and IBM Bluemix are trademarks of International Business Machines Corporation, registered in many jurisdictions worldwide.
* Amazon Web Services is a trademark of Amazon.com,Inc. or its affiliates in the United States and/or other countries.

# 4 IIoT Solution
# Database Integration

For More Info!




## Shared recipes

Access or manage recipes on database server.

## History logs

Transfer sampling logs and event/alarm logs to database server.

## SQL Query

Use SQL language to access database, calculate statistics, filter or analyze data, and read/write records.

## Database Integration

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.

# 5 Solution Smart HMI

## Monitor Mode

*Up to 50 HMIs can be monitored simultaneously.*

## EasyLauncher / cMT Viewer

- cMT Viewer APP
- cMT Smart Monitor and Control - Monitor Mode
- Application Management - EasyLauncher

Windows10 IoT | Easy Launcher | cMT Viewer | Monitor Mode

For More Info!

## cMT-iV5 & cMT-iPC

cMT Series realizes “One Machine to Multi-Screens” architecture that can flexibly suit diverse application. Both of them can run cMT Viewer to display the instant and historical data or operate cMT-SVR. Furthermore, Windows-based cMT-iPC can run third party applications.

## cMT-SVR

cMT-SVR is equipped with COM port and dual Ethernet ports, enabling it to connect to controllers and efficiently perform arithmetic operations, or process data such as Recipes, Data Sampling, and Event/Data Log.

Solution

# cMT+CODESYS & Remote I/O

For More Info!



WEINTEK | CODESYS

(cMT Series with CODESYS)

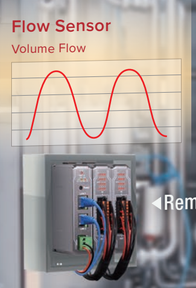
## HMI

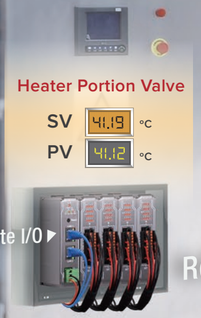
- Visualization with EasyBuilder Pro
- Support IIoT protocol standards: MQTT & OPC UA

## CODESYS®

- Support CANopen & MODBUS TCP/IP
- Support Remote I/O

* CODESYS® is a trademark of 3S-Smart Software Solutions GmbH



## cMT Series

cMT HMI is a combo that integrates high-performance HMI with CODESYS PLC controller system on an innovative architecture where a duo-core CPU runs two independent operating systems. With the multi-core processor, cMT HMI + CODESYS is able to not only provide data visualization with an operable user interface but also run controller logic, and the two systems run independently without mutual interference.

## iR-COP / iR-ETN Coupler + I/O modules

Cost-effective and Compact Solution
- Modularized design
- Support CANopen, MODBUS TCP/IP

# 7 Solution
## *HMI with External Touch Monitor / TV of Your Own Choice*

For More Info!

### Features

- 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

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

**cMT-FHD**

cMT-FHD has inherits all the rich HMI functionality found in the series. Without touchscreen and LCD, this HDMI-enabled unit can work with screens of any size, so that screen size is no longer limited by the HMIs provided on the market. It can also allow touch control via USB connection.

# 8 Solution
## *Wireless Solution*

For More Info!

### Features

- Built-in Wi-Fi (802.11 b/g/n)
- Support IIoT protocol standards: MQTT & OPC UA
- The water penetration resistance avoids corrosion of the PCB

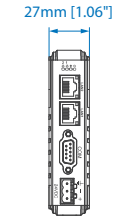
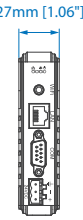
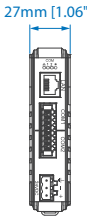
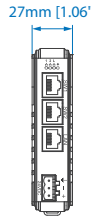
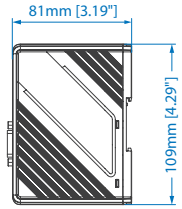
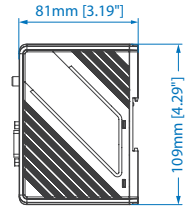
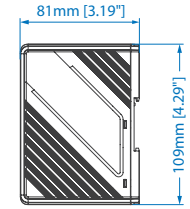
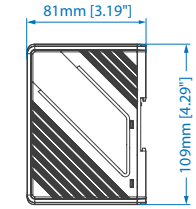
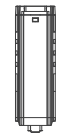
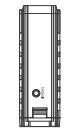
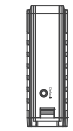
**cMT3103**

Offering a secure access point to an existing Wi-Fi network that can provide a unified, reliable, and easy way to manage applications in which wiring options may be limited by the environment.

# Specification

| | Model | cMT-G01 | cMT-G02 | cMT-G03 | cMT-G04 |
|---|---|---|---|---|---|
| Memory | Flash | 256 MB | 256 MB | 256 MB | 256 MB |
| | RAM | 256 MB | 256 MB | 256 MB | 256 MB |
| Processor | | 32-bit RISC 600MHz | 32-bit RISC 600MHz | 32-bit RISC 528MHz | 32-bit RISC 528MHz |
| I/O Port | Ethernet | LAN 1: 10/100/1000 Base-T x 1<br>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<br>SW1, SW2: 10/100 Base-T x 1<br>(2 port Ethernet switch) |
| | WiFi | N/A | IEEE 802.11 b/g/n<br>802.11b: max 15.88 dBm<br>802.11g: max 11.92 dBm<br>802.11n: max 11.28 dBm | N/A | N/A |
| | COM Port | COM1: RS-232 2W<br>COM2: RS-485 2W/4W<br>COM3: RS-485 2W | COM1: RS-232<br>COM2: RS-485 2W/4W<br>COM3: RS-485 2W | COM1: RS-232 2W, RS-485 2W/4W<br>COM2: RS-232 2W, RS-485 2W/4W | N/A |
| RTC | | Built-in | Built-in | Built-in | Built-in |
| Power | Input Power | 24±20%VDC | 10.5~28VDC | 10.5~28VDC | 10.5~28VDC |
| | Power Isolation | Built-in | Built-in | Built-in | Built-in |
| | Power Consumption | 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.) |
| | Isolation Resistance | Exceed 50MΩ at 500VDC | Exceed 50MΩ at 500VDC | Exceed 50MΩ at 500VDC | Exceed 50MΩ at 500VDC |
| | Vibration Endurance | 10 to 25Hz (X, Y, Z direction 2G 30 minutes) | 10 to 25Hz (X, Y, Z direction 2G 30 minutes) | 10 to 25Hz (X, Y, Z direction 2G 30 minutes) | 10 to 25Hz (X, Y, Z direction 2G 30 minutes) |
| Specification | PCB Coating | Yes | Yes | Yes | Yes |
| | Enclosure | Plastic | Plastic | Plastic | Plastic |
| | Dimensions WxHxD | 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. 0.14 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 |
| Environment | Protection Structure | IP20 | IP20 | IP20 | IP20 |
| | Storage Temperature | -20° ~ 60° C (-4° ~ 140° F) | -20° ~ 60° C (-4° ~ 140° F) | -20° ~ 60° C (-4° ~ 140° F) | -20° ~ 60° C (-4° ~ 140° F) |
| | Operating Temperature | 0° ~ 50° C (32° ~ 122° F) | 0° ~ 50° C (32° ~ 122° F) | 0° ~ 50° C (32° ~ 122° F) | 0° ~ 50° C (32° ~ 122° F) |
| | Relative Humidity | 10% ~ 90% (non-condensing) | 10% ~ 90% (non-condensing) | 10% ~ 90% (non-condensing) | 10% ~ 90% (non-condensing) |
| Certificate | CE | CE marked | CE marked | CE marked | CE marked |
| | UL | cULus Listed | cULus Listed | | |
| Software | | EasyBuilder Pro<br>EasyAccess 2.0 (Optional) | EasyBuilder Pro<br>EasyAccess 2.0 (Optional) | EasyBuilder Pro<br>EasyAccess 2.0 (Optional) | EasyBuilder Pro<br>EasyAccess 2.0 (Optional) |

# Dimensions

| cMT-G01 | cMT-G02 | cMT-G03 | cMT-G04 |
|---|---|---|---|
|  |  |  |  |
| Front View | Front View | Front View | Front View |
|  |  |  |  |
| Side View | Side View | Side View | Side View |
| |  | | |
| Top View | Top View | Top View | Top View |
| | |  |  |
| Bottom View | Bottom View | Bottom View | Bottom View |

# Specification

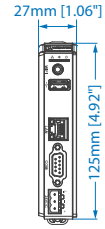
| | Model | cMT-SVR-100 | cMT-SVR-102 | cMT-SVR-200 | cMT-SVR-202 | cMT-FHD | cMT-iM21 |
|---|---|---|---|---|---|---|---|
| Display | Display | N/A | | N/A | | N/A | 21.5" TFT |
| | Resolution | N/A | | N/A | | N/A | Full HD 1920 x 1080 |
| | Brightness (cd/ ㎡ ) | N/A | | N/A | | N/A | 250 |
| | Contrast Ratio | N/A | | N/A | | N/A | 1000: 1 |
| | Backlight Type | N/A | | N/A | | N/A | LED |
| | Backlight Life Time | N/A | | N/A | | N/A | >30,000 hrs. |
| | Colors | N/A | | N/A | | N/A | 16.7M |
| | LCD Viewing Angle (T/B/L/R) | N/A | | N/A | | N/A | 80/80/85/85 |
| Touch Panel | Type | N/A | | N/A | | N/A | Tempered Glass, Capacitive Type ( Supports 2-Finger Gestures ) Hardness Scale 6H |
| Memory | Flash | 256 MB | | 256 MB | | 4 GB | N/A |
| | RAM | 256 MB | | 256 MB | | 1 GB | N/A |
| Processor | | 32-bit RISC 600MHz | | 32-bit RISC 600MHz | | 32-bit RISC 1GHz (Two 2D Graphics Engine) | N/A |
| I/O Port | SD Card Slot | SD/SDHC | | SD/SDHC | | N/A | N/A |
| | USB Host | USB 2.0 x 1 | | USB 2.0 x 1 | | USB 2.0 x 1 | USB 2.0 x 1 |
| | USB Client | N/A | | N/A | | N/A | USB 2.0 x 1 (Micro USB) |
| | Ethernet | 10/100/1000 Base-T x 2 | | 10/100/1000 Base-T x 1 | | LAN 1: 10/100/1000 Base-T x 1<br>LAN 2: 10/100 Base-T x 1 | N/A |
| | WiFi | N/A | | IEEE 802.11 b/g/n<br>802.11b: max 18.01 dBm<br>802.11g: max 11.02 dBm<br>802.11n: max 12.20 dBm | | N/A | N/A |
| | COM Port | COM1: RS-232<br>COM2: RS-485 2W/4W<br>COM3: RS-485 2W | | COM1: RS-232<br>COM2: RS-485 2W/4W<br>COM3: RS-485 2W | | COM1: RS-232<br>COM2: RS-485 2W/4W<br>COM3: RS-485 2W | N/A |
| | HDMI Output | N/A | | N/A | | Resolution 1920 x 1080 (customizable) | Yes ( Video Input ) |
| | Audio Output | N/A | | N/A | | HDMI Audio Output | N/A |
| | Video Input | N/A | | N/A | | N/A | Yes |
| RTC | | Built-in | | Built-in | | Built-in | N/A |
| Power | Input Power | 24±20%VDC | | 10.5~28VDC | | 10.5~28VDC | 24±20%VDC |
| | Power Isolation | Built-in | | Built-in | | Built-in | Built-in |
| | Power Consumption | 230mA@24VDC | | 1000mA@12VDC ; 450mA@24VDC | | 1250mA@12VDC ; 550mA@24VDC | 1.56A@24VDC |
| | Voltage Resistance | 500VAC (1 min.) | | 500VAC (1 min.) | | 500VAC (1 min.) | 500VAC (1 min.) |
| | Isolation Resistance | Exceed 50MΩ at 500VDC | | Exceed 50MΩ at 500VDC | | Exceed 50MΩ at 500VDC | Exceed 50MΩ at 500VDC |
| | Vibration Endurance | 10 to 25Hz (X, Y, Z direction 2G 30 minutes) | | 10 to 25Hz (X, Y, Z direction 2G 30 minutes) | | 10 to 25Hz (X, Y, Z direction 2G 30 minutes) | 10 to 25Hz (X, Y, Z direction 2G 30 minutes) |
| Specification | PCB Coating | Yes | | Yes | | Yes | Yes |
| | Enclosure | Plastic | | Plastic | | Plastic | Aluminum |
| | Dimensions WxHxD | 27 x 130 x 115 mm | | 27 x 130 x 115 mm | | 29.8 x 130 x 115 mm | 546 x 354 x 56.2 mm |
| | Panel Cutout | N/A | | N/A | | N/A | 532 x 340 mm |
| | Weight | Approx. 0.18 kg | | Approx. 0.18 kg | | Approx. 0.24 kg | Approx. 4.9 kg |
| | Mount | 35 mm DIN rail mounting | | 35 mm DIN rail mounting | | 35 mm DIN rail mounting | Panel mount, VESA mount 100 x 100 mm |
| Environment | Protection Structure | IP20 | | IP20 | | IP20 | NEMA4 / IP65 Compliant Front Panel* |
| | Storage Temperature | -20° ~ 70° C (-4° ~ 158° F) | | -20° ~ 70° C (-4° ~ 158° F) | | -20° ~ 60° C (-4° ~ 140° F) | -20° ~ 60° C (-4° ~ 140° F) |
| | Operating Temperature | -20° ~ 55° C (-4° ~ 131° F) | | -10° ~ 55° C (14° ~ 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) | 10% ~ 90% (non-condensing) |
| Certificate | CE | CE marked | | CE marked | | CE marked | CE marked |
| | UL | cULus Listed | | | | cULus Listed | N/A |
| Software | | EasyBuilder Pro<br>EasyAccess 2.0 (Optional) | EasyBuilder Pro<br>Built-in EasyAccess 2.0 | EasyBuilder Pro<br>EasyAccess 2.0 (Optional) | EasyBuilder Pro<br>Built-in EasyAccess 2.0 | EasyBuilder Pro<br>EasyAccess 2.0 (Optional) | N/A |

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

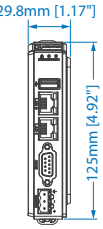
# Dimensions

| cMT-SVR100 / cMT-SVR102 | cMT-SVR-200 / cMT-SVR-202 | cMT-FHD | cMT-iM21 |
|---|---|---|---|

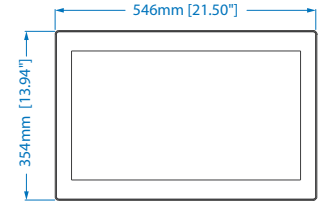
Front View



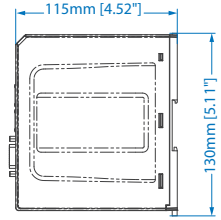

Front View



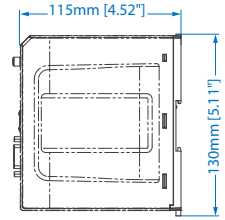

Front View



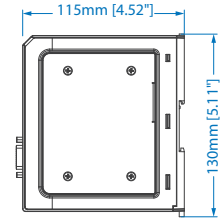

Front View



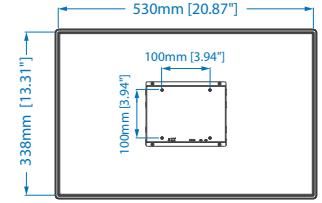

Side View



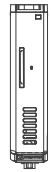

Side View



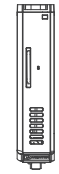

Side View



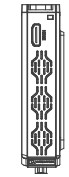

Rear View



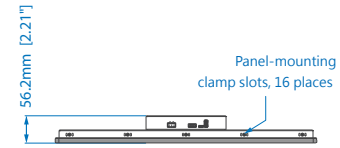
Top View



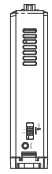
Top View



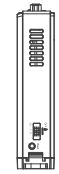
Top View



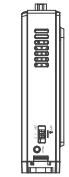

Bottom View



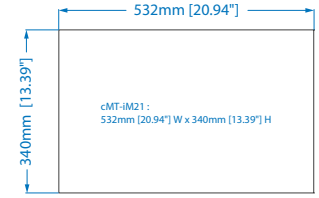
Bottom View



Bottom View



Bottom View




Cutout Dimensions

# Specification

| | Model | cMT-iV5 | cMT-iPC10 | cMT-iPC15 |
|---|---|---|---|---|
| Display | Display | 9.7" TFT | 9.7" TFT | 15" TFT |
| | Resolution | 1024 x 768 | 1024 x 768 | 1024 x 768 |
| | Brightness (cd/ ㎡ ) | 350 | 350 | 400 |
| | Contrast Ratio | 500: 1 | 500: 1 | 700: 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 | 70/70/80/80 |
| Touch Panel | Type | Tempered Glass, Capacitive 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 | 512 MB | 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 | N/A | 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 |
| | WiFi | N/A | N/A | N/A |
| | COM Port | N/A | N/A | N/A |
| | RS-485 Dual Isolation | N/A | N/A | N/A |
| | CAN Bus | N/A | N/A | N/A |
| | Audio Output | Built-in Mono Speaker | Built-in Mono Speaker<br>Audio Line Out - 3.5 mm jack x 1 | Built-in Mono Speaker<br>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 at 500VDC | Exceed 50MΩ at 500VDC | Exceed 50MΩ at 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 | 257.2 x 199.7 x 32.7 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. 0.76 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) /<br>NEMA4 / IP65 Compliant Front Panel | UL Type 4X (indoor use only) /<br>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 | 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.

# Specification

| | Model | cMT3071 | cMT3072 | cMT3090 | cMT3103 | cMT3151 |
|---|---|---|---|---|---|---|
| Display | Display | 7" TFT | 7" IPS | 9.7" TFT | 10.1" TFT | 15" TFT |
| | Resolution | 800 x 480* | 1024 x 600* | 1024 x 768 | 1024 x 600 | 1024 x 768 |
| | Brightness (cd/ ㎡ ) | 400 | 450 | 350 | 350 | 400 |
| | Contrast Ratio | 800: 1 | | 500:1 | 500:1 | 700: 1 |
| | Backlight Type | LED | | LED | LED | LED |
| | Backlight Life Time | >30,000 hrs. | >25,000 hrs. | >30,000 hrs. | >50,000 hrs. | >50,000 hrs. |
| | Colors | 16.7M | 16.2M | 262K | 16.7M | 16.2M |
| | LCD Viewing Angle (T/B/L/R) | 60/80/80/80 | 85/85/85/85 | 60/70/70/70 | 60/60/70/70 | 70/70/80/80 |
| Touch Panel | Type | 4-wire Resistive Type | | 4-wire Resistive Type | 4-wire Resistive Type | 4-wire Resistive Type / 5-wire Resistive Type |
| | Accuracy | Active Area Length(X)±2%, Width(Y)±2% | | Active Area Length(X)±2%, Width(Y)±2% | Active Area Length(X)±2%, Width(Y)±2% | Active Area Length(X)±2%, Width(Y)±2% |
| Memory | Flash | 4 GB | | 4 GB | 4 GB | 4 GB |
| | RAM | 1 GB | | 1 GB | 1 GB | 1 GB |
| Processor | | 32-bit RISC 1GHz | | 32-bit RISC 1GHz | 32-bit RISC 1GHz | 32-bit RISC 1GHz |
| I/O Port | SD Card Slot | N/A | | SD/SDHC | N/A | SD/SDHC |
| | USB Host | USB 2.0 x 1 | | USB 2.0 x 1 | USB 2.0 x 1 | USB 2.0 x 1 |
| | USB Client | N/A | | N/A | N/A | USB 2.0 x 1 (Micro USB) |
| | Ethernet | LAN 1: 10/100/1000 Base-T x 1<br>LAN 2: 10/100 Base-T x 1 | | LAN 1: 10/100/1000 Base-T x 1<br>LAN 2: 10/100 Base-T x 1 | 10/100 Base-T x 1 | LAN 1: 10/100/1000 Base-T x 1<br>LAN 2: 10/100 Base-T x 1 |
| | WiFi | N/A | | N/A | IEEE 802.11 b/g/n<br>802.11b: max 19.25 dBm<br>802.11g: max 13.74 dBm<br>802.11n: max 15.01 dBm | N/A |
| | COM Port | Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus<br>Con.B: COM1 RS-232 4W, COM3 RS-232 2W* | | Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus<br>Con.B: COM1 RS-232 4W, COM3 RS-232 2W* | Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus<br>Con.B: COM1 RS-232 4W, COM3 RS-232 2W* | COM1: RS-232/RS-485 2W/4W<br>COM3: RS-232/RS-485 2W* |
| | RS-485 Dual Isolation | N/A | | N/A | N/A | Yes |
| | CAN Bus | Yes | | Yes | Yes | Yes |
| | Audio Output | N/A | | Built-in Mono Speaker | N/A | Built-in Mono Speaker<br>Audio Line Out - 3.5 mm jack x 1 |
| RTC | | Built-in | | Built-in | Built-in | Built-in |
| Power | Input Power | 10.5~28VDC | | 24±20%VDC | 10.5~28VDC | 24±20%VDC |
| | Power Isolation | Built-in | | Built-in | Built-in | Built-in |
| | Power Consumption | 2A@12VDC ; 1A@24VDC | | 900mA@24VDC | 2A@12VDC ; 1A@24VDC | 900mA@24VDC |
| | Voltage Resistance | 500VAC (1 min.) | | 500VAC (1 min.) | 500VAC (1 min.) | 500VAC (1 min.) |
| | Isolation Resistance | Exceed 50MΩ at 500VDC | | Exceed 50MΩ at 500VDC | Exceed 50MΩ at 500VDC | Exceed 50MΩ at 500VDC |
| | Vibration Endurance | 10 to 25Hz (X, Y, Z direction 2G 30 minutes) | | 10 to 25Hz (X, Y, Z direction 2G 30 minutes) | 10 to 25Hz (X, Y, Z direction 2G 30 minutes) | 10 to 25Hz (X, Y, Z direction 2G 30 minutes) |
| Specification | PCB Coating | Yes | | Yes | Yes | Yes |
| | Enclosure | Plastic | | Plastic | Plastic | Aluminum |
| | Dimensions WxHxD | 200.3 x 146.3 x 35.0 mm | | 260.6 x 203.1 x 36.5 mm | 271 x 213 x 36.4 mm | 366 x 293 x 48.2 mm |
| | Panel Cutout | 192 x 138 mm | | 250 x 192 mm | 260 x 202 mm | 352 x 279 mm |
| | Weight | Approx. 0.6 kg | | Approx. 0.92 kg | Approx. 1.07 kg | Approx. 2.45 kg |
| | Mount | Panel mount | | Panel mount, VESA mount 75 x 75 mm | Panel mount | Panel mount, VESA mount 75 x 75 mm |
| Environment | Protection Structure | UL Type 4X (indoor use only) /<br>NEMA4 / IP65 Compliant Front Panel | | UL Type 4X (indoor use only) /<br>NEMA4 / IP65 Compliant Front Panel | NEMA4 / IP65 Compliant Front Panel | UL Type 4X (indoor use only) /<br>NEMA4 / IP65 Compliant Front Panel |
| | Storage Temperature | -20° ~ 60° C (-4° ~ 140° F) | | -20° ~ 60° C (-4° ~ 140° F) | -20° ~ 60° C (-4° ~ 140° F) | -20° ~ 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) | 0° ~ 50° C (32° ~ 122° F) |
| | Relative Humidity | 10% ~ 90% (non-condensing) | | 10% ~ 90% (non-condensing) | 10% ~ 90% (non-condensing) | 10% ~ 90% (non-condensing) |
| Certificate | CE | CE marked | | CE marked | CE marked | CE marked |
| | UL | cULus Listed | | cULus Listed | cULus Listed | cULus Listed |
| Software | | EasyBuilder Pro<br>EasyAccess 2.0 (Optional)<br>CODESYS (Optional) | EasyBuilder Pro<br>Built-in EasyAccess 2.0<br>CODESYS (Optional) | EasyBuilder Pro<br>Built-in EasyAccess 2.0<br>CODESYS (Optional) | EasyBuilder Pro<br>Built-in EasyAccess 2.0 | EasyBuilder Pro<br>Built-in EasyAccess 2.0<br>CODESYS (Optional) |

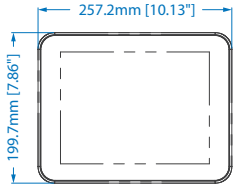
*cMT3071: Pixel Pitch (mm) 0.1926(H) x 0.179(V). / cMT3072: Pixel Pitch (mm) 0.1506(H) x 0.1432(V).

*cMT3071/ cMT3072/ cMT3090/ cMT3103/ cMT3151: Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

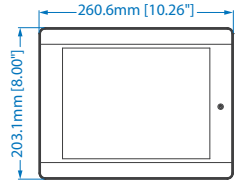
# Dimensions



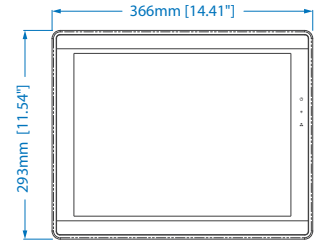
| cMT-iV5 | cMT-iPC10 | cMT-iPC15 |
|---|---|---|



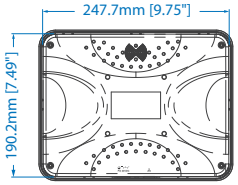

Front View



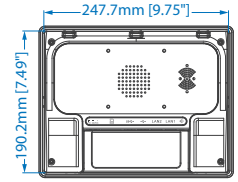

Front View



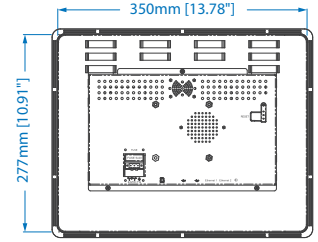

Front View



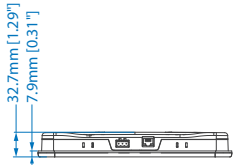

Rear View



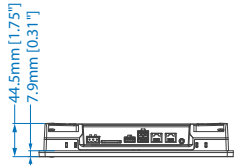

Rear View



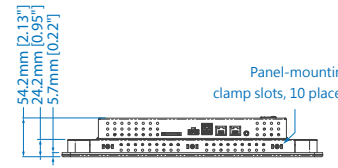

Rear View



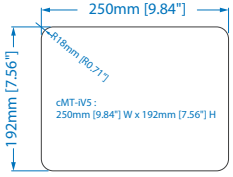

Bottom View



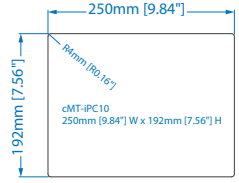

Bottom View



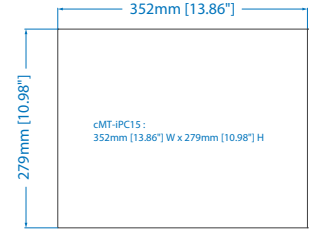

Bottom View




Cutout Dimensions



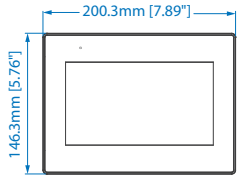

Cutout Dimensions



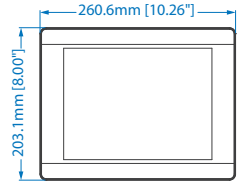

Cutout Dimensions

# Dimensions

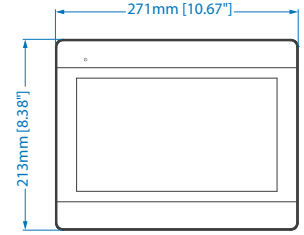
| cMT3071 / cMT3072 | cMT3090 | cMT3103 | cMT3151 |
|---|---|---|---|



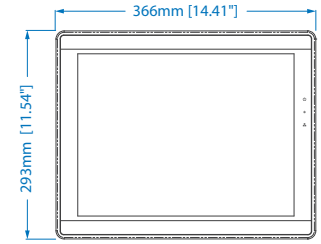

Front View



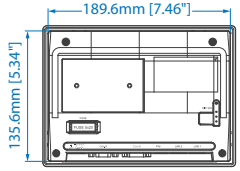

Front View



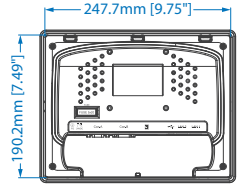

Front View



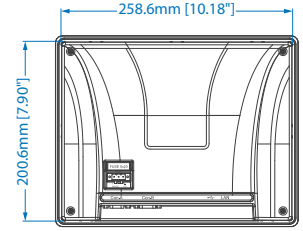

Front View



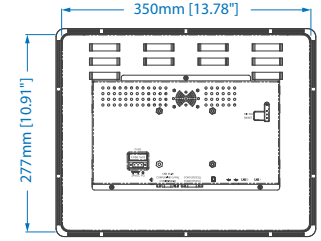

Rear View



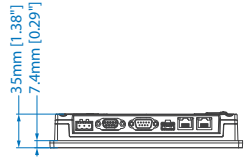

Rear View



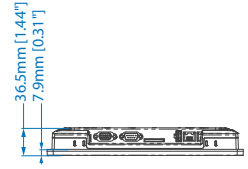

Rear View



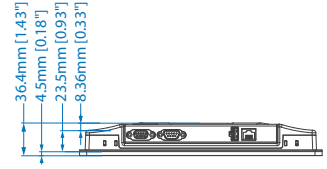

Rear View



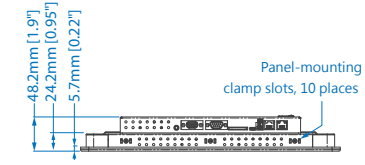

Bottom View



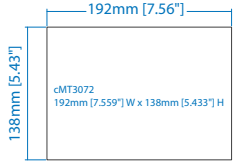

Bottom View



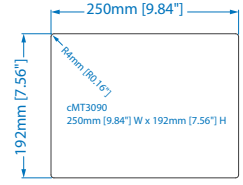

Bottom View



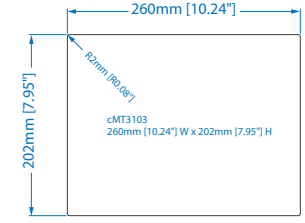

Bottom View



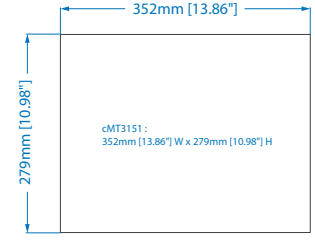

Cutout Dimensions




Cutout Dimensions




Cutout Dimensions




Cutout Dimensions

# iR Series

## Communication Interface Specifications

| | Model | iR-ETN | iR-COP |
|---|---|---|---|
| Expansion I/O module | Number of Bus Terminals | Depends on Power Consumption | Depends on Power Consumption |
| | Digital Input Point | Max. 256 | Max. 256 |
| | Digital Output Point | Max. 128 | Max. 128 |
| | Analog Input Channel | Max. 64 | Max. 64 |
| | Analog Output Channel | Max. 64 | Max. 64 |
| Data Transfer Rate | | 10/100 Mbps | 50k~1 Mbps |
| Protocol | | Modbus TCP/IP | CANopen Slave |
| Max. Number of TCP/IP Connections | | 8 Connections | |
| Power | Power Supply | 24 VDC (-15%/+20%) | 24 VDC (-15%/+20%) |
| | Power Dissipation | Nominal 100mA@24VDC | Nominal 100mA@24VDC |
| | Current for Internal Bus | Max 2A@5VDC | Max 2A@5VDC |
| | Current Consumption | 220mA@5VDC | 170mA@5VDC |
| | Electrical Isolation | Network to Logic : Isolation<br>Logic to Field power : Isolation | Network to Logic : Isolation<br>Logic to Field power : Isolation |
| | Back-up Fuse | ≤ 1.6A Self-recovery | ≤ 1.6A Self-recovery |
| Specification | PCB Coating | Yes | Yes |
| | Enclosure | Plastic | Plastic |
| | Dimensions WxHxD | 27 x 109 x 81 mm | 27 x 109 x 81 mm |
| | Weight | Approx. 0.15 kg | Approx. 0.15 kg |
| | Mount | 35mm DIN rail mounting | 35mm DIN rail mounting |
| Environment | Protection Structure | IP20 | IP20 |
| | Storage Temperature | -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) |
| | Relative Humidity | 10% ~ 90% (non-condensing) | 10% ~ 90% (non-condensing) |
| | Vibration Resistance | Conforms to EN 60068-2-6 / EN 60068-2-27 | Conforms to EN 60068-2-6 / EN 60068-2-27 |
| Certification | EMC Immunity | Conforms to<br>EN 55032: 2012+AC: 2013, Class A<br>EN 61000-6-4: 2007+A1:2011<br>EN 55024: 2010+A1: 2015<br>EN 61000-6-2:2005 | Conforms to<br>EN 55032: 2012+AC: 2013, Class A<br>EN 61000-6-4: 2007+A1:2011<br>EN 55024: 2010+A1: 2015<br>EN 61000-6-2:2005 |

# Digital Input/Output Specifications

| Model | | iR-DI16-K | iR-DM16-P | iR-DM16-N |
|---|---|---|---|---|
| Number of Inputs | | 16 | 8 | 8 |
| Input Logic | | Sink or Source | Sink or Source | Sink or Source |
| Number of Outputs | | 0 | 8 | 8 |
| Output Logic | | N/A | Source | Sink |
| Current Consumption | | 83mA@5VDC | 130mA@5VDC | 130mA@5VDC |
| HIGH Level Input Voltage | | 15~28VDC | 15~28VDC | 15~28VDC |
| LOW Level Input Voltage | | 0~5 VDC | 0~5 VDC | 0~5 VDC |
| Output Voltage | | N/A | 11~28VDC | 11~28VDC |
| Output Current | | N/A | 0.5A per channel (Max 4A) | 0.5A per channel (Max 4A) |
| Specification | 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) | | |
| | Vibration Resistance | Conforms to EN 60068-2-6 / EN 60068-2-27 | | |
| 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 | | |

| Model | | iR-DQ16-P | iR-DQ16-N | iR-DQ08-R |
|---|---|---|---|---|
| Number of Inputs | | 0 | 0 | 0 |
| Input Logic | | N/A | N/A | N/A |
| Number of Outputs | | 16 | 16 | 8 |
| Output Logic | | Source | Sink | Relay |
| Current Consumption | | 196mA@5VDC | 205mA@5VDC | 220mA@5VDC |
| HIGH Level Input Voltage | | N/A | N/A | N/A |
| LOW Level Input Voltage | | N/A | N/A | N/A |
| Output Voltage | | 11~28VDC | 11~28VDC | 250VAC/ 30VDC |
| Output Current | | 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) | | |
| | Vibration Resistance | Conforms to EN 60068-2-6 / EN 60068-2-27 | | |
| 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 | | |

## Analog Input/Output Specifications

| Model | | iR-AI04-VI | iR-AM06-VI | iR-AQ04-VI |
|---|---|---|---|---|
| Number of Analog Inputs | | 4 (±10V/ ±20mA) | 4 (±10V/ ±20mA) | 0 |
| Number of Analog outputs | | 0 | 2 (±10V/ ±20mA) | 4 (±10V/ ±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) | | |
| | Vibration Resistance | Conforms to EN 60068-2-6 / EN 60068-2-27 | | |
| 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 | | |

## 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 | 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) |
| | Vibration Resistance | Conforms to EN 60068-2-6 / EN 60068-2-27 |
| 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 |

Remote I/O

# Quick Feature Comparison

| | Gateway<br>cMT-G01 / cMT-G02<br>cMT-G03 / cMT-G04 | cMT-FHD | cMT-SVR-100 | cMT-SVR-200 | cMT3071 | cMT3072 | cMT3090 | cMT3103 | cMT3151 |
|---|---|---|---|---|---|---|---|---|---|
| Audio Output | | via HDMI | | | | | ● | | ● |
| WiFi | 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 | | ● | | | ● | ● | ● | ● | ● |
| Energy Demand Display | | ● | ● | ● | ● | ● | ● | ● | ● |
| MQTT | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| OPC UA Client | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| OPC UA Server | ● | Optional | Optional | Optional | ● | ● | ● | ● | ● |
| Database Server | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| SQL Query | | ● | ● | ● | ● | ● | ● | ● | ● |
| CODESYS | | | | | Optional | Optional | Optional | | Optional |
| EasyAccess 2.0 | Optional | Optional | cMT-SVR-100<br>Optional<br>cMT-SVR-102<br>Built-in License | cMT-SVR-200<br>Optional<br>cMT-SVR-202<br>Built-in License | Optional | Built-in License | Built-in License | Built-in License | Built-in License |

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## Weintek

Since the foundation  of the company in October of 1995, Weintek Labs., Inc. has been committing itself to being a leading-edge designer and manufacturer of graphic operator interfaces, also known as HMI (Human Machine Interfaces), in Taiwan. We took our rich experience as HMI specialists and set the HMI product standard with state-of-the-art technology, efficient manufacturing, conscientious and careful testing, and global specialized support.

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