



Industry 4.0
IIoT Platform

CMIT Series

Edge Computing & Smart Manufacturing

1

cMT X Series IIoT Edge Computing

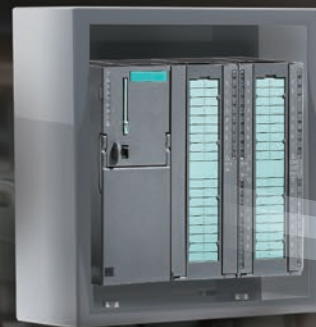
A major HMI upgrade that not only retains features of the predecessors but also integrates OT with the IIoT.

HMI

- ▶ Retains all key features of the predecessors.
- ▶ Supports more than 300 major PLC drivers. / Excellent computation and communication capability.
- ▶ EasyAccess 2.0 provides remote HMI Management and pass-through capacities.
- ▶ Revamped Web interface allows for HMI screen access and log viewing with only a web browser, plus enhanced security with encrypted data transmission.
- ▶ The enhanced CPU/GPU power of the quad-core processor ensures smooth operation of HMI project without delay, even with CODESYS running at the same time.
- ▶ HMI Program+PLC communication and CODESYS+ I/O module control runs on independent cores of the multi-core CPU, a cutting-edge proprietary technology.



Remote I/O



PLC

300+ Protocols Supported

Supports Modbus, CANopen, EtherNet/IP and EtherCAT

CODESYS

- ▶ CODESYS runs on an independent core (Optional).
- ▶ Supports Modbus, CANopen, EtherNet/IP and EtherCAT.
- ▶ Supports applications using I/O modules.

Features

- ▶ Built-in OPC UA Client / Server, certified by the OPC foundation.
- ▶ Modbus TCP/IP facilitates seamless integration with field devices.
- ▶ MQTT protocol, providing standard implementation as well as easy Cloud IIoT tool integration with AWS IoT, Microsoft Azure, and Google Cloud.
- ▶ Database feature supports MySQL and MS SQL systems, making applications like centralized recipe management or ERP integration feasible.



MQTT
OPC UA
Modbus



2 CMT G Series IIoT Edge Gateway

Outstanding data processing and communication ability facilitate integration of different brands of PLCs with protocol standards like OPC UA / MQTT / Modbus TCP/IP.

Features

- Specializing in communication and data processing, cMT G Series can communicate with over 300 major PLC drivers and then transmit that data to IIoT platforms using the most popular IIoT protocols: OPC UA, MQTT and Modbus TCP/IP.
- Supports data log and event log synchronization to MySQL, MS SQL database servers.
- Built-in Web interface enables the use of web browser for tasks such as system setting, PLC communication parameter setting, data log and event log view, etc.
- The box shaped and 35mm DIN rail mountable design makes the model an easy fit in diverse settings.



Modbus

MODBUS (TCP/IP) is a simple and common communication protocol used in industrial automation application.

MQTT

MQTT, an built-in IoT protocol standard, features lightweight message transport and publish/subscribe mechanism.

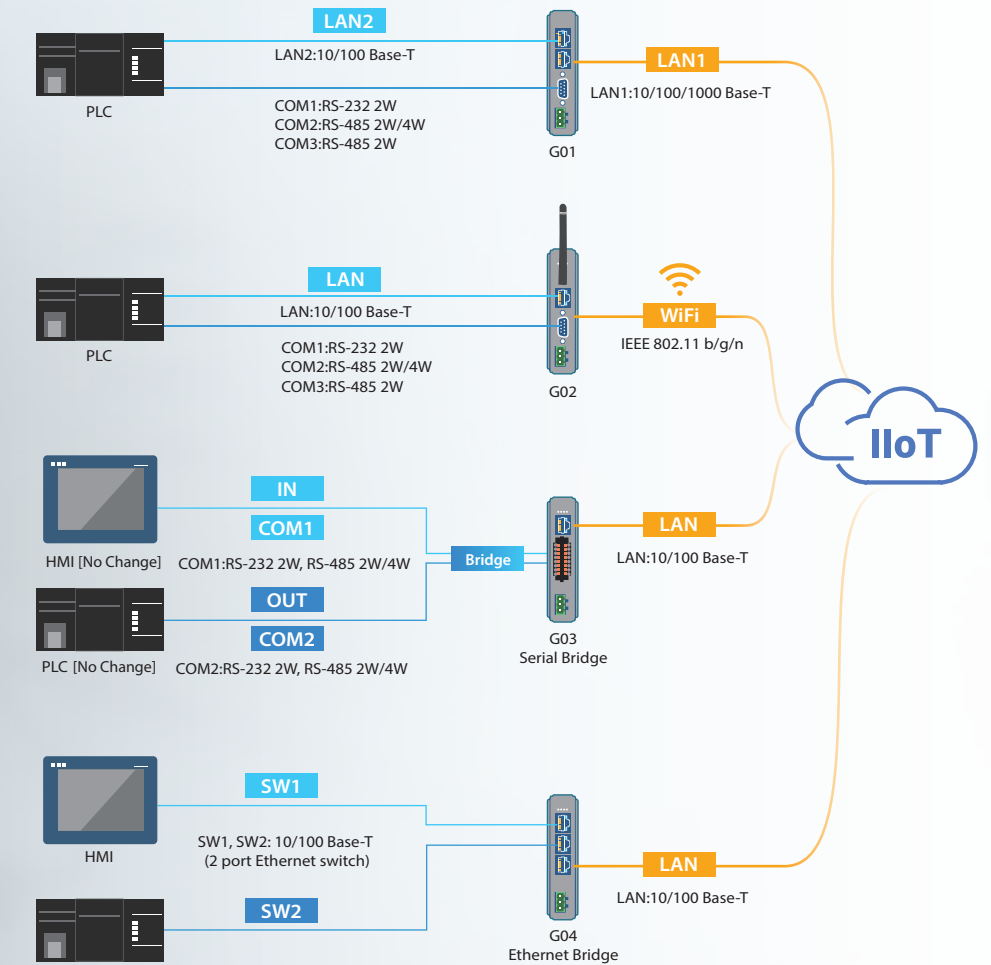
3 Major Industrial Communication Protocols



The built-in OPC UA is officially certified for compliance by the OPC Foundation. OPC UA is the key industrial communication protocol that is secure, open-source, and platform-dependent.

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

The Easier Bridge to IIoT



3

cMT-CTRL+iR Series

IIoT Gateway / Motion Control / Remote I/O

IIoT



EasyBuilder Pro | CODESYS

cMT-CTRL01

An IIoT Programmable Logic Controller that integrates CODESYS and Gateway.

iR Series

EtherCAT

- Communication couplers: Modbus TCP/IP, CANopen, EtherNet/IP™, and EtherCAT.
- iR-PU01-P Motion Control Module.
- iR Digital / Analog IO Modules.
- iR-AI04-TR Temperature Module.

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

* EtherNet/IP is a trademark of ODVA, Inc.

* EtherCAT® is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany

- Dual Ethernet ports and RS-232/485 serial ports with communication support more than 300 major PLC drivers.
- In compliance with IEC 61131-3 standard, CODESYS supports multiple languages such as FBD/LD/IL/ST/SFC/CFC.
- With built-in Modbus TCP/IP Gateway, cMT-CTRL01 supports the protocols used by over 300 major PLC drivers.
- OPC UA and MQTT, being widely accepted standards, enable data upload from on-site devices to IIoT datacenter.
- Supports synchronization of sampled data and event log to SQL database.

4

HMI with External Touch Monitor / TV of Your Own Choice

Features

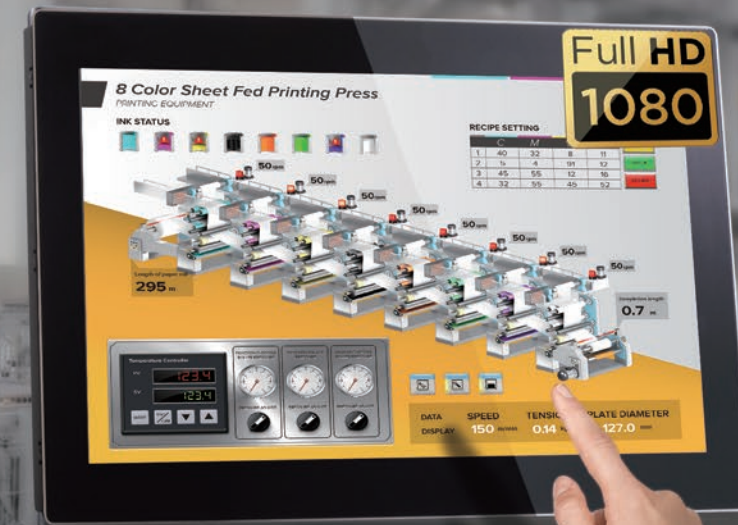
HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

- Built-in HDMI interface and adjustable resolution up to 1920x1080
- Supports customized resolution for 16:9 / 4:3 LCD monitor
- Support wide input voltage range 24±20%VDC
- Support IIoT Protocol: MQTT



cMT-FHDX-220

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



cMT-iM21

cMT-FHDX-220 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.

Smart HMI

Monitor Mode
Up to 50 HMIs can be
monitored simultaneously.



cMT-iv & 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.

EasyLauncher / cMT Viewer

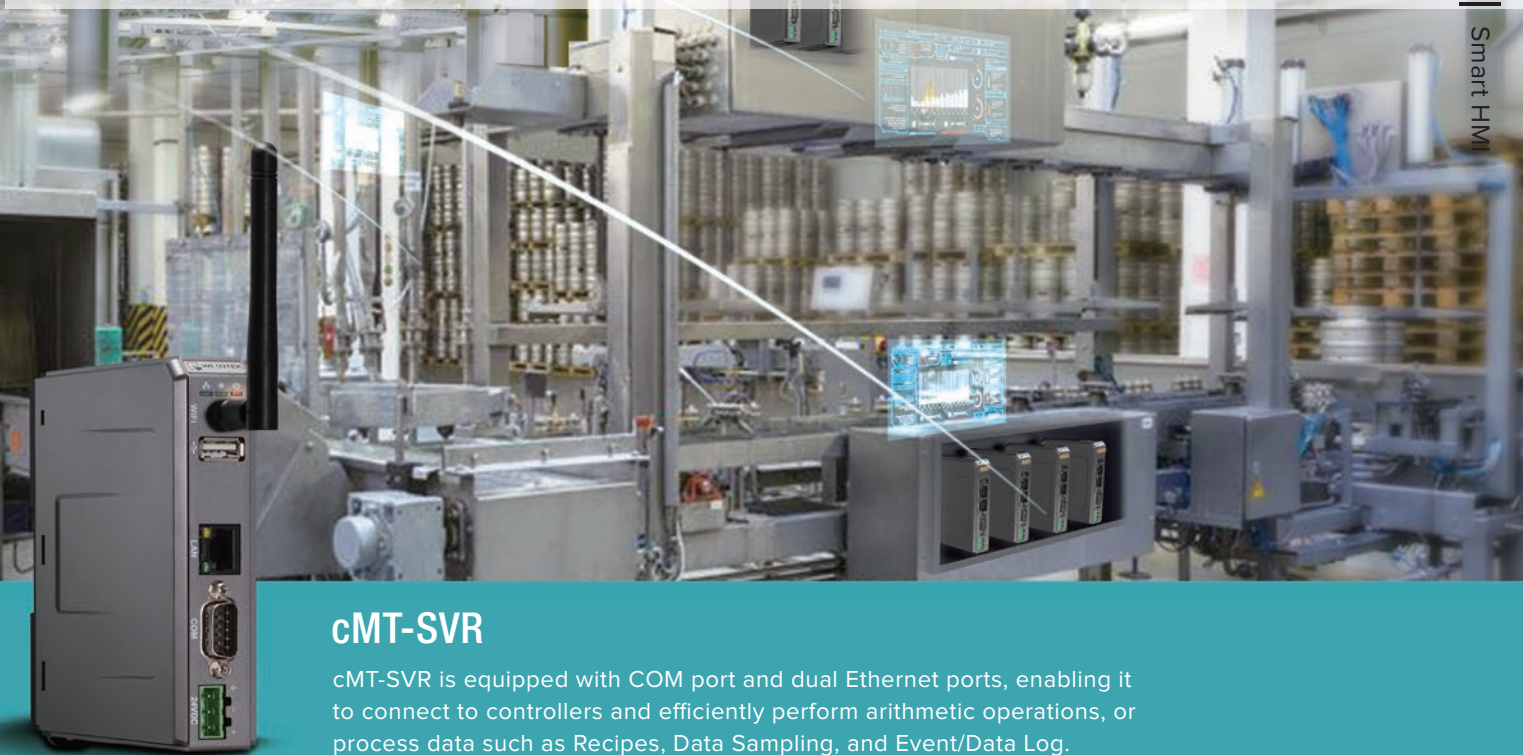
- ▶ cMT Viewer APP
- ▶ cMT Smart Monitor and Control - Monitor Mode
- ▶ Application Management - EasyLauncher

Windows10
IoT

Easy
Launcher

cMT
Viewer

Monitor
Mode



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.

6 EasyAccess 2.0

« Factory Office »

1. Push Notification

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

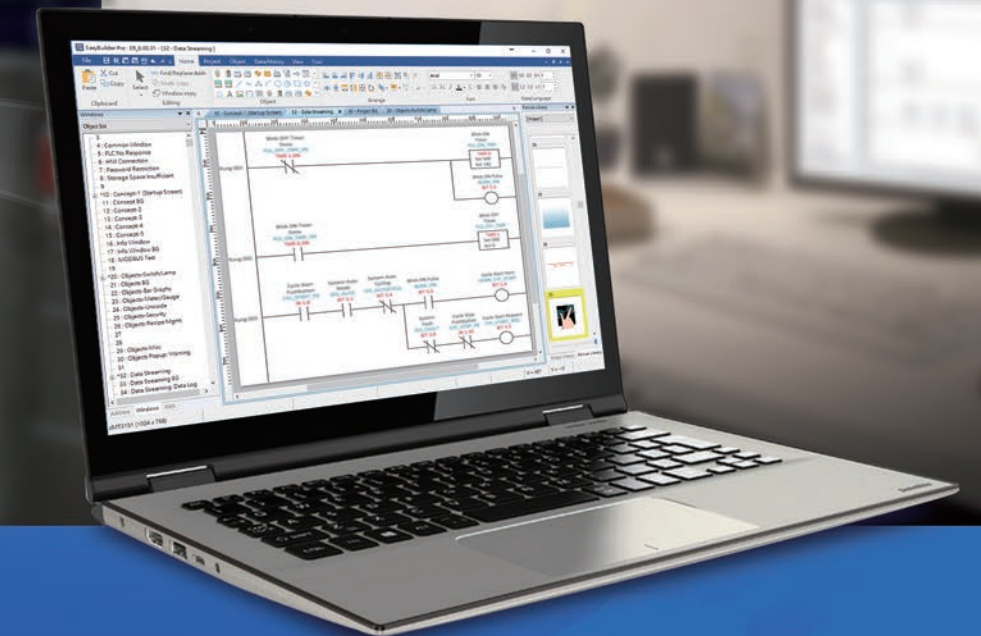


2. Pass-Through

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

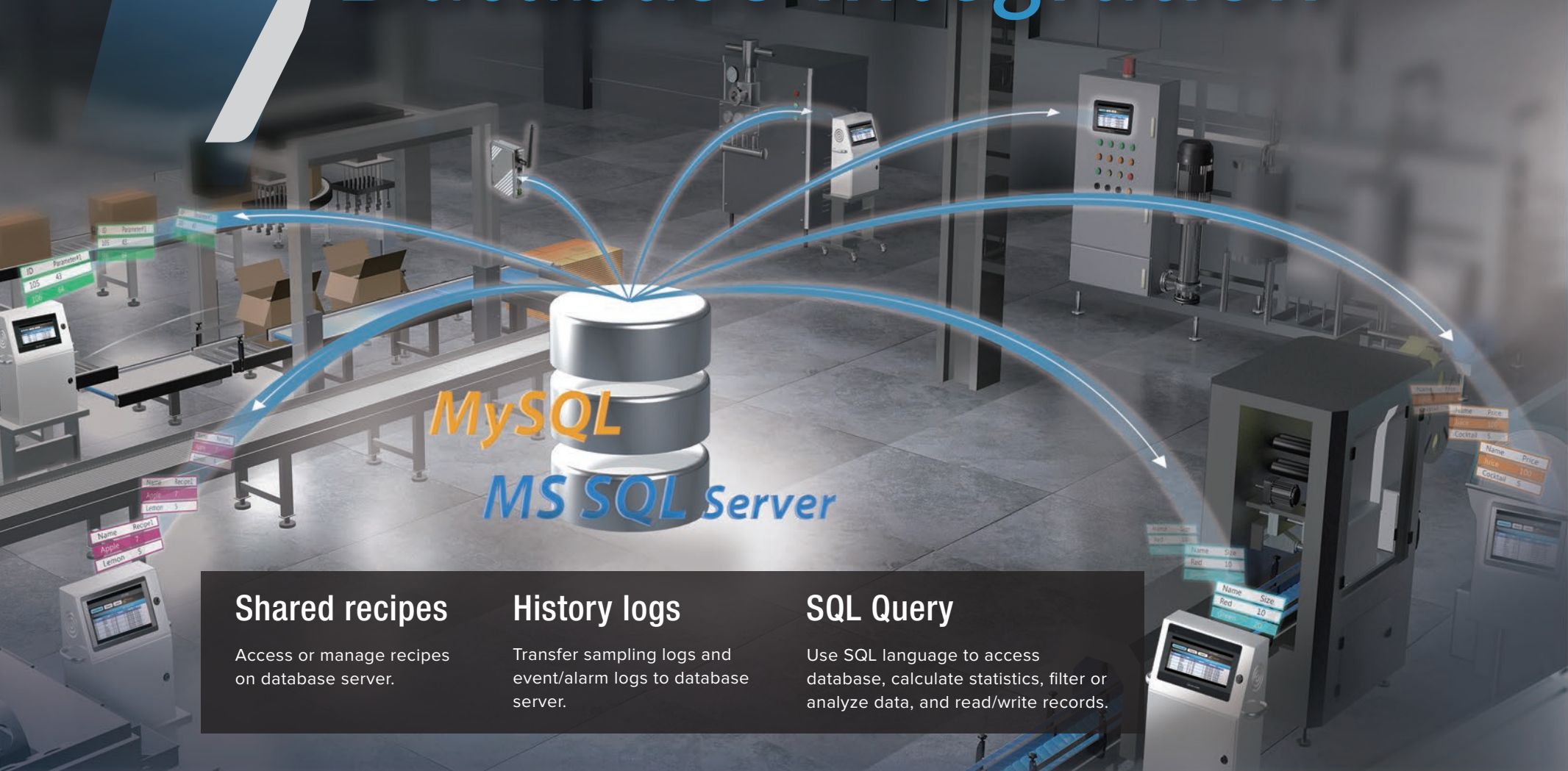
3. Remote Monitoring

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



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.

7 Database Integration

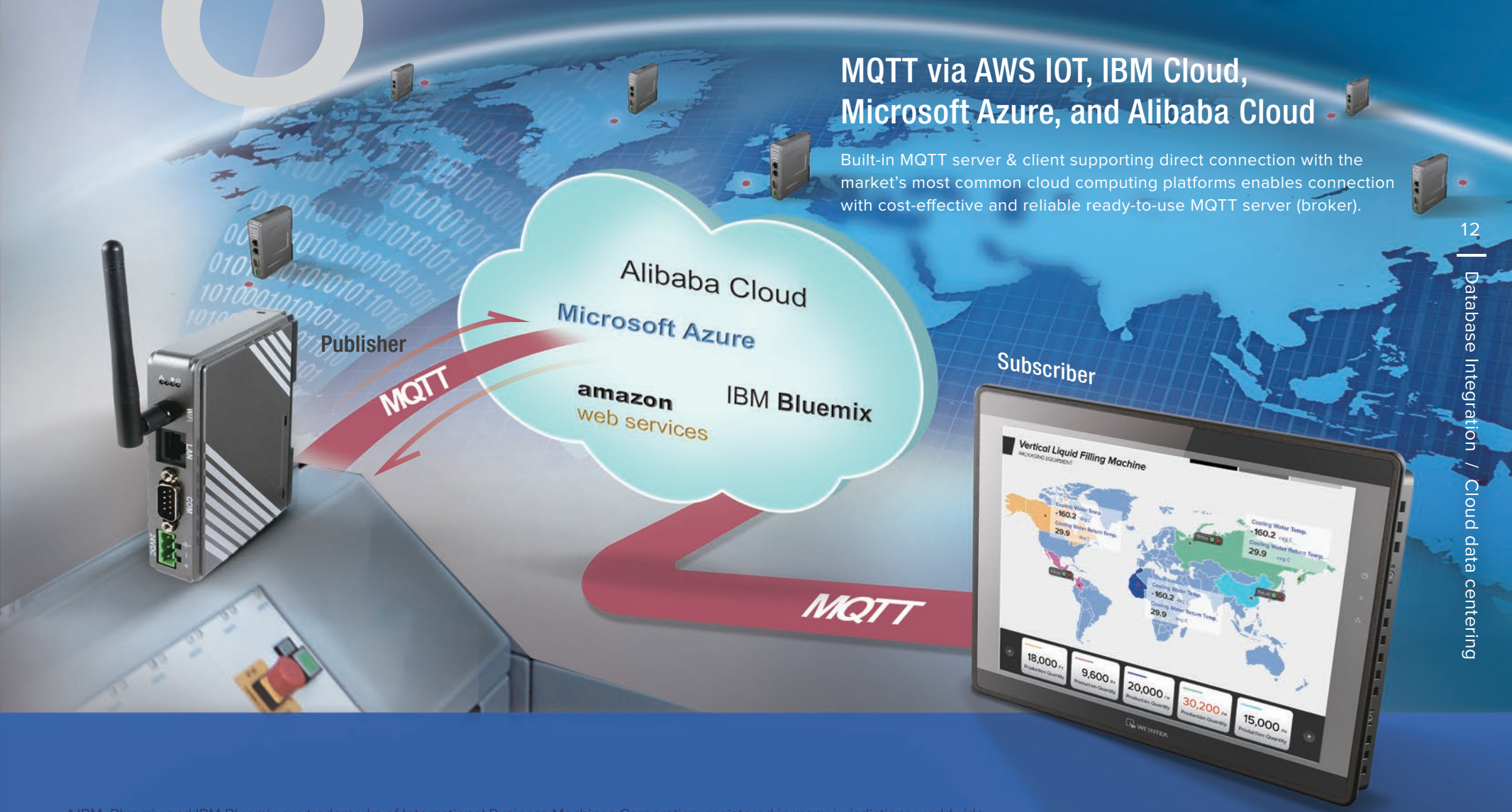


- Shared recipes**
Access or manage recipes on database server.
- History logs**
Transfer sampling logs and event/alarm logs to database server.
- SQL Query**
Use SQL language to access database, calculate statistics, filter or analyze data, and read/write records.

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.

8 Cloud Data Centering



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).

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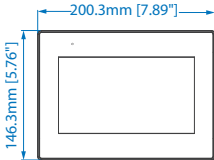
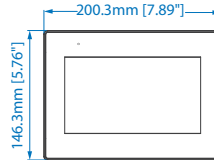
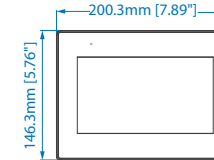
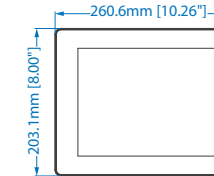
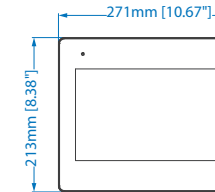
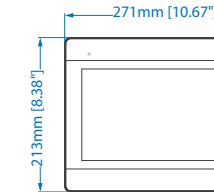
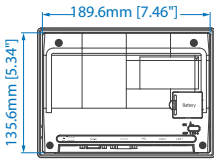
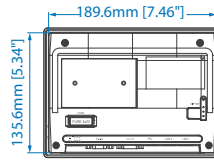
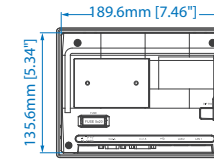
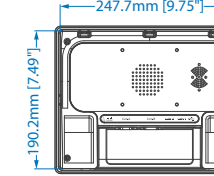
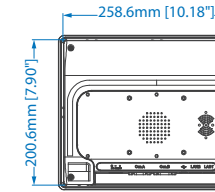
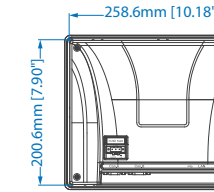
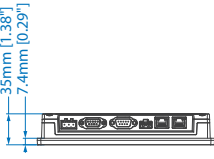
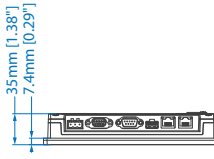
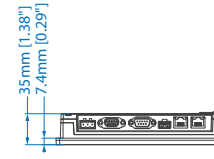
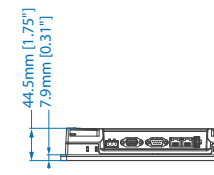
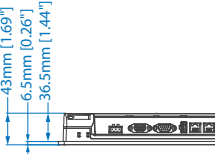
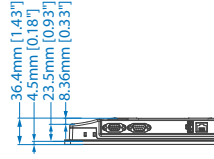
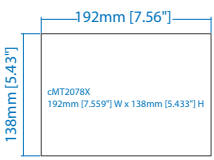
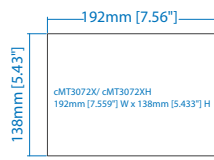
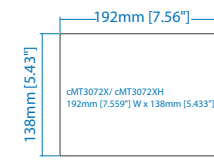
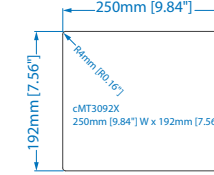
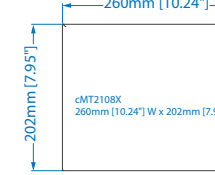
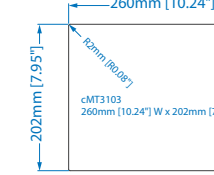
Specification



	Model	cMT2078X	cMT3072X	cMT3072XH	cMT3092X	cMT2108X	cMT3103
Display	Display	7" TFT	7" TFT	7" IPS	9.7" TFT	10.1" TFT	10.1" TFT
	Resolution	800 x 480	800 x 480	1024 x 600	1024 x 768	1024 x 600	1024 x 600
	Brightness (cd/ m²)	400	400	450	350	350	350
	Contrast Ratio	800: 1	800: 1	800: 1	500:1	500:1	500:1
	Backlight Type	LED	LED	LED	LED	LED	LED
	Backlight Life Time	>30,000 hrs.	>30,000 hrs.	>25,000 hrs.	>30,000 hrs.	>50,000 hrs.	>50,000 hrs.
	Colors	16.7M	16.7M	16.7M	262K	16.7M	16.7M
	LCD Viewing Angle (T/B/L/R)	60/80/80/80	60/80/80/80	85/85/85/85	60/70/70/70	70/70/80/80	70/70/80/80
Touch Panel	Pixel Pitch (mm)	0.1926(H) x 0.179(V)	0.1926(H) x 0.179(V)	0.1506(H) x 0.1432(V)	0.192(H) x 0.192(V)	0.2175 (H) x 0.2088 (V)	0.2175(H) x 0.2088(V)
	Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type
Memory	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%	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%
	Flash	4 GB	4 GB	4 GB	4 GB	4 GB	4 GB
Processor	RAM	1 GB	1 GB	1 GB	1 GB	1 GB	1 GB
		Quad-core 64-bit RISC 1.5GHz	Quad-core 64-bit RISC 1.5GHz	Quad-core 64-bit RISC 1.5GHz	Quad-core 32-bit RISC 1.6GHz	Quad-core 32-bit RISC 1.6GHz	32-bit RISC 1GHz
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	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	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1	10/100 Base-T x 1
	Wi-Fi	N/A	N/A	N/A	N/A	N/A	IEEE 802.11 b/g/n 802.11b: max 19.25 dBm 802.11g: max 13.74 dBm 802.11n: max 15.01 dBm
	COM Port	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W* MPI is not supported.	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W* MPI is not supported.	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* MPI is not supported.	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1/COM3 RS-232*
	CAN Bus	N/A	Yes	Yes	Yes	N/A	Yes
	Audio Output	N/A	N/A	N/A	Built-in Mono Speaker	N/A	N/A
	RTC	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
Power	Input Power	24±20%VDC	24±20%VDC	24±20%VDC	24±20%VDC	24±20%VDC	10.5~28VDC
	Power Isolation	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
	Power Consumption	820mA@24VDC	850mA@24VDC	850mA@24VDC	1A@24VDC	1A@24VDC	2A@12VDC ; 1A@24VDC
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Specification	PCB Coating	Yes	Yes	Yes	Yes	Yes	Yes
	Enclosure	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic
	Dimensions WxHxD	200.3 x 146.3 x 35.0 mm	200.3 x 146.3 x 35.0 mm	200.3 x 146.3 x 35.0 mm	260.6 x 203.1 x 44.5 mm	271 x 213 x 43 mm	271 x 213 x 36.4 mm
	Panel Cutout	192 x 138 mm	192 x 138 mm	192 x 138 mm	250 x 192 mm	260 x 202 mm	260 x 202 mm
	Weight	Approx. 0.6 kg	Approx. 0.6 kg	Approx. 0.6 kg	Approx. 1 kg	Approx. 1.2 kg	Approx. 1.07 kg
	Mount	Panel mount	Panel mount	Panel mount	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 75 x 75 mm	Panel mount
Environment	Protection Structure	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	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)	-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)	0° ~ 55° C (32° ~ 131° F)	0° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)
	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)
Certificate	CE	CE marked	CE marked	CE marked	CE marked	CE marked	CE marked
	UL		cULus Listed	cULus Listed	cULus Listed		cULus Listed
Software		EasyBuilder Pro EasyAccess 2.0 (Optional) CODESYS (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional) CODESYS (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional) CODESYS (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0 CODESYS (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional) CODESYS (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0

*cMT2078X/ cMT3072X/ cMT3072XH/ cMT3092X/ cMT2108X/ cMT3103: Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

Dimensions

cMT2078X	cMT3072X	cMT3072XH	cMT3092X	cMT2108X	cMT3103
 200.3mm [7.89"] 146.3mm [5.76"] Front View	 200.3mm [7.89"] 146.3mm [5.76"] Front View	 200.3mm [7.89"] 146.3mm [5.76"] Front View	 260.6mm [10.26"] 203.1mm [8.00"] Front View	 271mm [10.67"] 213mm [8.38"] Front View	 271mm [10.67"] 213mm [8.38"] Front View
 189.6mm [7.46"] 135.6mm [5.34"] Rear View	 189.6mm [7.46"] 135.6mm [5.34"] Rear View	 189.6mm [7.46"] 135.6mm [5.34"] Rear View	 247.7mm [9.75"] 190.2mm [7.49"] Rear View	 258.6mm [10.18"] 200.6mm [7.90"] Rear View	 258.6mm [10.18"] 200.6mm [7.90"] Rear View
 35mm [1.38"] 7.4mm [0.29"] Bottom View	 35mm [1.38"] 7.4mm [0.29"] Bottom View	 35mm [1.38"] 7.4mm [0.29"] Bottom View	 44.5mm [1.75"] 7.9mm [0.31"] Bottom View	 43mm [1.69"] 6.5mm [0.26"] 36.5mm [1.44"] Bottom View	 36.4mm [1.43"] 4.5mm [0.18"] 23.5mm [0.93"] 8.36mm [0.33"] Bottom View
 192mm [7.56"] 138mm [5.43"] cMT2078X 192mm [7.559"] W x 138mm [5.433"] H Cutout Dimensions	 192mm [7.56"] 138mm [5.43"] cMT3072X/ cMT3072XH 192mm [7.559"] W x 138mm [5.433"] H Cutout Dimensions	 192mm [7.56"] 138mm [5.43"] cMT3072X/ cMT3072XH 192mm [7.559"] W x 138mm [5.433"] H Cutout Dimensions	 250mm [9.84"] 192mm [7.56"] 14mm [0.55"] cMT3092X 250mm [9.84"] W x 192mm [7.56"] H Cutout Dimensions	 260mm [10.24"] 202mm [7.95"] cMT2108X 260mm [10.24"] W x 202mm [7.95"] H Cutout Dimensions	 260mm [10.24"] 202mm [7.95"] 12mm [0.47"] cMT3103 260mm [10.24"] W x 202mm [7.95"] H Cutout Dimensions

Specification



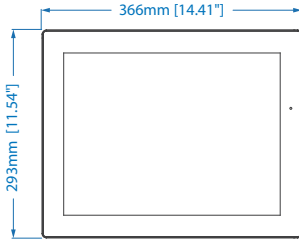
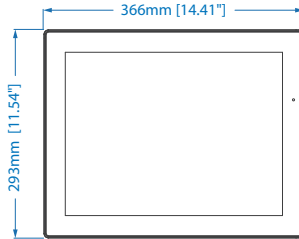
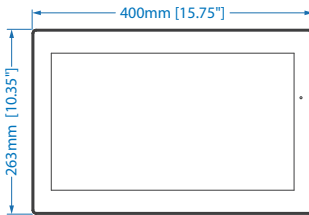
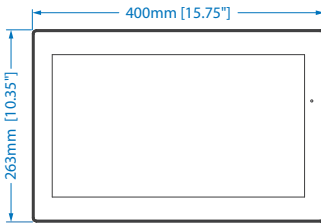
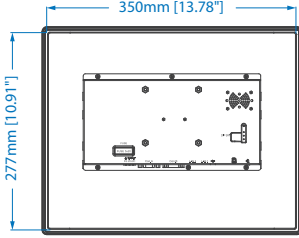
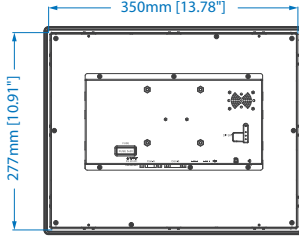
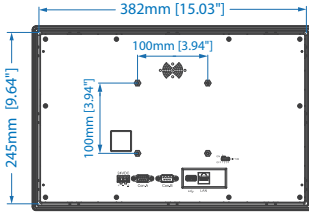
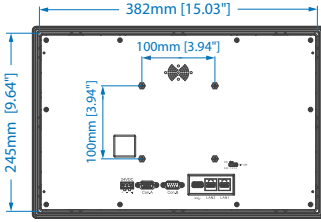
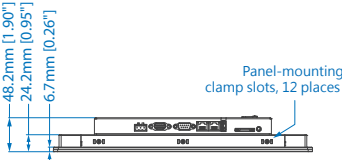
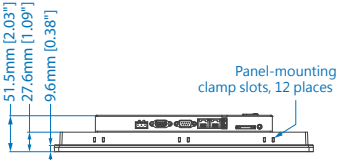
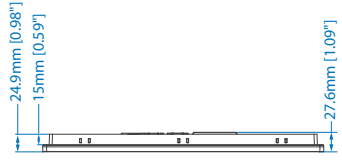
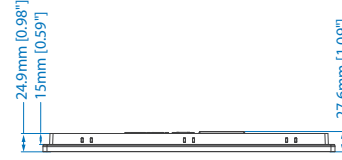
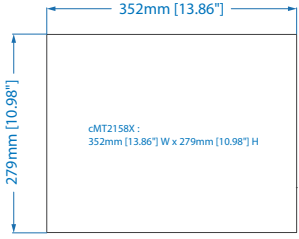
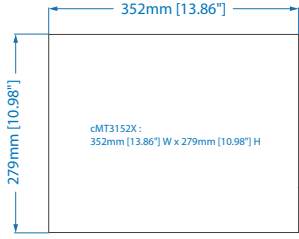
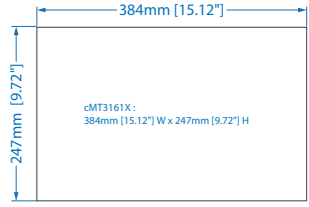
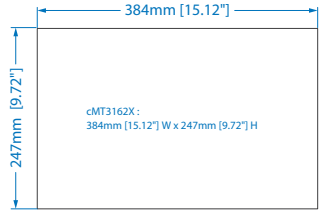
	Model	cMT2158X	cMT3152X	cMT3161X	cMT3162X
Display	Display	15" IPS	15" IPS	15.6" IPS	15.6" IPS
	Resolution	1024 x 768	1024 x 768	1920 x 1080	1920 x 1080
	Brightness (cd/ m ²)	400	400	300	300
	Contrast Ratio	1000: 1	1000: 1	800: 1	800: 1
	Backlight Type	LED	LED	LED	LED
	Backlight Life Time	> 50,000 hrs.	> 50,000 hrs.	> 30,000 hrs.	> 30,000 hrs.
	Colors	16.2M	16.2M	16.2M	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
Touch Panel	Pixel Pitch (mm)	0.297(H) x 0.297(V)	0.297(H) x 0.297(V)	0.17925(H) x 0.17925(V)	0.17925(H) x 0.17925(V)
	Type	4-wire Resistive Type	Tempered Glass, Capacitive Type* Hardness Scale 7H	Tempered Glass, Capacitive Type* Hardness Scale 7H	Tempered Glass, Capacitive Type* Hardness Scale 7H
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%	N/A	N/A	N/A
Memory	Flash	4 GB	4 GB	4 GB	4 GB
	RAM	1 GB	1 GB	1 GB	1 GB
Processor		Quad-core 32-bit RISC 1.6GHz	Quad-core 32-bit RISC 1.6GHz	Quad-core 32-bit RISC 1.6GHz	Quad-core 32-bit RISC 1.6GHz
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
	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	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1
	Wi-Fi	N/A	N/A	N/A	N/A
	COM Port	Con.A: COM1 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W* MPI is not supported.	Con.A: COM1 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W*	Con.A: COM1 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W* MPI is not supported.	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	Yes	N/A	N/A
	CAN Bus	N/A	Yes	N/A	Yes
	Audio Output	Built-in Mono Speaker Audio Line Out - 3.5 mm jack x 1	Built-in Mono Speaker Audio Line Out - 3.5 mm jack x 1	Built-in Mono Speaker	Built-in Mono Speaker
	RTC	Built-in	Built-in	Built-in	Built-in
	Power				
Specification	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	1.3A@24VDC	1.3A@24VDC	1.3A@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
	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)
	PCB Coating	Yes	Yes	Yes	Yes
	Enclosure	Aluminum	Front bezel: Plastic, Rear Enclosure: Aluminum	Front bezel: Plastic, Rear Enclosure: Aluminum	Front bezel: Plastic, Rear Enclosure: Aluminum
	Dimensions WxHxD	366 x 293 x 48.2mm	366 x 293 x 51.5 mm	400 x 263 x 27.6 mm	400 x 263 x 27.6 mm
	Panel Cutout	352 x 279 mm	352 x 279 mm	384 x 247 mm	384 x 247 mm
Environment	Weight	Approx. 2.6 kg	Approx. 2.75 kg	Approx. 1.6 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	Panel mount, VESA mount 100 x 100 mm
	Protection Structure	NEMA4 / IP66 Compliant Front Panel	NEMA4 / IP66 Compliant Front Panel	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° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)
Certificate	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)
	CE	CE marked	CE marked	CE marked	CE marked
	UL		cULus Listed		cULus Listed
Software		EasyBuilder Pro EasyAccess 2.0 (Optional) CODESYS (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0 CODESYS (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional) CODESYS (Optional)

*cMT2158X/ cMT3152X/ cMT3161X/ cMT3162X: Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

*cMT3152X/ cMT3161X/ cMT3162X: Supports multi-touch gestures.

*cMT3162X: Supports vibrational feedback.

Dimensions

cMT2158X	cMT3152X	cMT3161X	cMT3162X
 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

Specification



	Model	cMT-CTRL01	cMT-G01	cMT-G02	cMT-G03	cMT-G04
Memory	Flash	4 GB	256 MB	256 MB	256 MB	256 MB
	RAM	512 MB	256 MB	256 MB	256 MB	256 MB
	Data, Memory, Code	3 MB	N/A	N/A	N/A	N/A
	Retain area	16 KB (every minute) (Kept after reboots)	N/A	N/A	N/A	N/A
	Persistent area	16 KB (every minute) (Kept after downloads)	N/A	N/A	N/A	N/A
	File system	8MB	N/A	N/A	N/A	N/A
Processor		Dual-Core 32 bits RISC 1GHz	32-bit RISC 600MHz	32-bit RISC 600MHz	32-bit RISC 528MHz	32-bit RISC 528MHz
I/O Port	SD Card Slot	SD/SDHC	N/A	N/A	N/A	N/A
	Ethernet	Ethernet 1: 10/100/1000 Base-T x 1 Ethernet 2: 10/100 Base-T x 1	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1	10/100 Base-T x 1	10/100 Base-T x 1	LAN: 10/100 Base-T x 1 SW1, SW2: 10/100 Base-T x 1 (2 port Ethernet switch)
	Wi-Fi	N/A	N/A	IEEE 802.11 b/g/n 802.11b: max 15.88 dBm 802.11g: max 11.92 dBm 802.11n: max 11.28 dBm	N/A	N/A
	COM Port	COM1: RS-232 2W COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 2W COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 2W COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 2W, RS-485 2W/4W COM2: RS-232 2W, RS-485 2W/4W	N/A
	Local bus	iBus	N/A	N/A	N/A	N/A
CODESYS	Protocol	Modbus TCP/IP Master, EtherCAT Master	N/A	N/A	N/A	N/A
RTC		Built-in	Built-in	Built-in	Built-in	Built-in
Power	Input Power	24±20%VDC	24±20%VDC	10.5~28VDC	10.5~28VDC	10.5~28VDC
	Power Isolation	Built-in	Built-in	Built-in	Built-in	Built-in
	Current for Internal Bus	Max 2A@5VDC	N/A	N/A	N/A	N/A
	Current Consumption	550mA@5VDC	N/A	N/A	N/A	N/A
	Power Consumption	Nominal 310mA@24VDC	230mA@24VDC	230mA@12VDC ; 115mA@24VDC	300mA@12VDC ; 150mA@24VDC	270mA@12VDC ; 150mA@24VDC
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Specification	PCB Coating	Yes	Yes	Yes	Yes	Yes
	Enclosure	Plastic	Plastic	Plastic	Plastic	Plastic
	Dimensions WxHxD	50 x 109 x 81 mm	27 x 109 x 81 mm	27 x 109 x 81 mm	27 x 109 x 81 mm	27 x 109 x 81 mm
	Weight	Approx. 0.24 kg	Approx. 0.14 kg	Approx. 0.14 kg	Approx. 0.14 kg	Approx. 0.14 kg
	Mount	35 mm DIN rail mounting	35 mm DIN rail mounting	35 mm DIN rail mounting	35 mm DIN rail mounting	35 mm DIN rail mounting
Environment	Protection Structure	IP20	IP20	IP20	IP20	IP20
	Storage Temperature	-20° ~ 70° C (-4° ~ 158° F)	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)
	Operating Temperature	-10° ~ 50° C (14° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)
	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)
Certificate	CE	CE marked	CE marked	CE marked	CE marked	CE marked
	UL	cULus Listed	cULus Listed	cULus Listed	cULus Listed	cULus Listed
Software		EasyBuilder Pro EasyAccess 2.0 (Optional) Built-in CODESYS	EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro EasyAccess 2.0 (Optional)

Dimensions

cMT-CTRL01	cMT-G01	cMT-G02	cMT-G03	cMT-G04
Front View	Front View	Front View	Front View	Front View
Side View	Side View	Side View	Side View	Side View
Top View	Top View	Top View	Top View	Top View
Bottom View	Bottom View	Bottom View	Bottom View	Bottom View

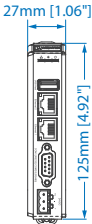
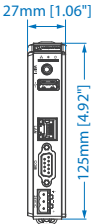
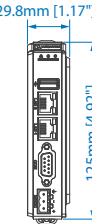
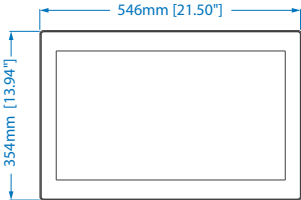
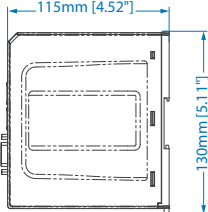
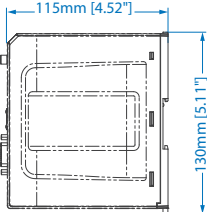
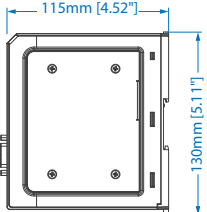
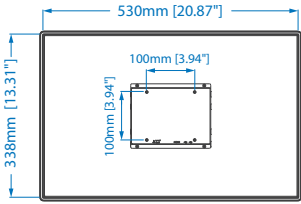
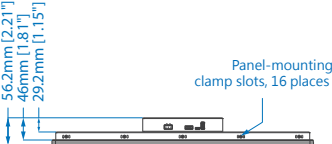
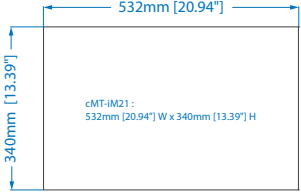
Specification



	Model	cMT-SVR-100	cMT-SVR-102	cMT-SVR-200	cMT-SVR-202	cMT-FHDX-220	cMT-iM21
Display	Display	N/A		N/A	N/A		21.5" IPS
	Resolution	N/A		N/A	N/A		Full HD 1920 x 1080
	Brightness (cd/ m²)	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		> 50,000 hrs.
	Colors	N/A		N/A	N/A		16.7M
	LCD Viewing Angle (T/B/L/R)	N/A		N/A	N/A		89/89/89/89
	Pixel Pitch (mm)	N/A		N/A	N/A		0.2479 (H) x 0.2479 (V)
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	Quad-core 32-bit RISC 1.6GHz		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 LAN 2: 10/100 Base-T x 1		N/A
	Wi-Fi	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	N/A		N/A
	COM Port	COM1: RS-232 COM2: RS-485 2W/4W COM3: RS-485 2W		COM1: RS-232 COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 COM2: RS-485 2W/4W COM3: RS-485 2W		N/A
	HDMI	N/A		N/A	Customizable (max. resolution 1920 x 1080)		Yes (Video Input)
	Recommended Resolutions (Please use these recommended screen resolutions to avoid compatibility issues.)	N/A		N/A	720x480 720x576 800x600 1024x768 1280x720 1366x768 1920x1080		N/A
	Audio Output	N/A		N/A	HDMI Audio Output		N/A
RTC		Built-in		Built-in	Built-in		N/A
	Input Power	24±20%VDC		10.5~28VDC	24±20%VDC		24±20%VDC
	Power Isolation	Built-in		Built-in	Built-in		Built-in
	Power Consumption	230mA@24VDC		1000mA@12VDC ; 450mA@24VDC	850mA@24VDC		1.56A@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	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)
	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
Environment	Mount	35 mm DIN rail mounting		35 mm DIN rail mounting	35 mm DIN rail mounting		Panel mount, VESA mount 100 x 100 mm
	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	cULus Listed		cULus Listed
Software		EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0	EasyBuilder Pro EasyAccess 2.0 (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0	EasyBuilder Pro EasyAccess 2.0 (Optional) CODESYS (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-FHDX-220	cMT-iM21
 27mm [1.06"] 125mm [4.92"]	 27mm [1.06"] 125mm [4.92"]	 29.8mm [1.17"] 125mm [4.92"]	 546mm [21.50"] 354mm [13.94"]
Front View	Front View	Front View	Front View
 115mm [4.52"] 130mm [5.11"]	 115mm [4.52"] 130mm [5.11"]	 115mm [4.52"] 130mm [5.11"]	 530mm [20.87"] 338mm [13.31"] 100mm [3.94"] 100mm [3.94"]
Side View	Side View	Side View	Rear View
			 56.2mm [2.21"] 46mm [1.81"] 29.2mm [1.15"] Panel-mounting clamp slots, 16 places
Top View	Top View	Top View	Bottom View
			 532mm [20.94"] 340mm [13.39"] cMT-iM21 : 532mm [20.94"] W x 340mm [13.39"] H
Bottom View	Bottom View	Bottom View	Cutout Dimensions

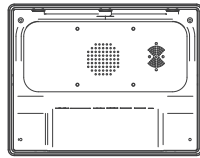
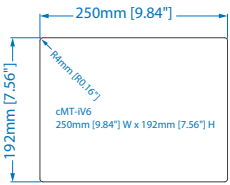
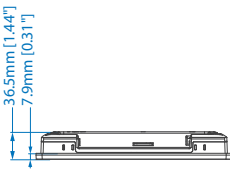
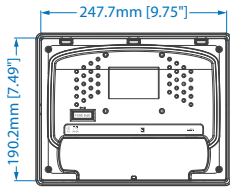
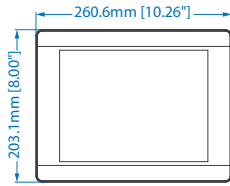
Specification



	Model	cMT-iV6	cMT-iPC10	cMT-iPC15
Display	Display	9.7" TFT	9.7" TFT	15" IPS
	Resolution	1024 x 768	1024 x 768	1024 x 768
	Brightness (cd/ m')	350	350	400
	Contrast Ratio	500: 1	500: 1	1000: 1
	Backlight Type	LED	LED	LED
	Backlight Life Time	> 30,000 hrs.	> 30,000 hrs.	> 50,000 hrs.
	Colors	262K	262K	16.2M
	LCD Viewing Angle (T/B/L/R)	60/70/70/70	60/70/70/70	89/89/89/89
Touch Panel	Pixel Pitch (mm)	0.192 (H) x 0.192 (V)	0.129 (H) x 0.129 (V)	0.297(H) x 0.297(V)
	Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type
Memory	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%
	Flash	4 GB	64 GB (SSD)	64 GB (SSD)
Processor	RAM	1 GB	4 GB	4 GB
		32-bit RISC 1GHz	Intel Atom® E3827 processor	Intel Atom® E3827 processor
I/O Port	SD Card Slot	SD/SDHC	SD/SDHC/SDXC	SD/SDHC/SDXC
	USB Host	N/A	USB 2.0 x 2 / USB 3.0 x 1	USB 2.0 x 2 / USB 3.0 x 1
	Ethernet	10/100/1000 Base-T x 1	10/100/1000 Base-T x 2	10/100/1000 Base-T x 2
	Audio Output	Built-in Mono Speaker	Built-in Mono Speaker Audio Line Out - 3.5 mm jack x 1	Built-in Mono Speaker Audio Line Out - 3.5 mm jack x 1
RTC		Built-in	Built-in	Built-in
Power	Input Power	24±20%VDC	24±20%VDC	24±20%VDC
	Power Isolation	Built-in	Built-in	Built-in
	Power Consumption	900mA@24VDC	1.5A@24VDC	2A@24VDC
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Specification	PCB Coating	Yes	Yes	Yes
	Enclosure	Plastic	Plastic	Aluminum
	Dimensions WxHxD	260.6 x 203.1 x 36.5 mm	260.6 x 203.1 x 44.5 mm	366 x 293 x 54.2 mm
	Panel Cutout	250 x 192 mm	250 x 192 mm	352 x 279 mm
	Weight	Approx. 0.92 kg	Approx. 1.1 kg	Approx. 2.76 kg
	Mount	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 75 x 75 mm
Environment	Protection Structure	NEMA4 / IP65 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel
	Storage Temperature	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 70° C (-4° ~ 158° F)
	Operating Temperature	0° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)
	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)
Certificate	CE	CE marked	CE marked	CE marked
	UL		cULus Listed	cULus Listed
Software		cMT Viewer	*Windows® 7 / Windows® 8.1 / Windows® 10 IoT Enterprise (EasyLauncher + cMT Viewer)	*Windows® 7 / Windows® 8.1 / Windows® 10 IoT Enterprise (EasyLauncher + cMT Viewer)

*cMT-iPC10/ cMT-iPC15: License of Windows OS is excluded.

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iR Series



Communication Interface Specifications

Model		iR-ETN	iR-COP	iR-ECAT
Expansion I/O module	Number of Bus Terminals	Depends on Power Consumption	Depends on Power Consumption	Depends on Power Consumption
	Digital Input Point	Max. 256	Max. 256	Max. 256
	Digital Output Point	Max. 128	Max. 128	Max. 128
	Analog Input Channel	Max. 64	Max. 64	Max. 64
	Analog Output Channel	Max. 64	Max. 64	Max. 64
Data Transfer Rate		10/100 Mbps	50k~1 Mbps	100 Mbps
Max. Number of TCP/IP Connections		8 Connections	-	-
Protocol		Modbus TCP/IP Server, EtherNet/IP™	CANopen Slave	EtherCAT® Slave
Power	Power Supply	24 VDC (-15%/+20%)	24 VDC (-15%/+20%)	24 VDC (-15%/+20%)
	Power Dissipation	Nominal 100mA@24VDC	Nominal 100mA@24VDC	Nominal 100mA @ 24VDC
	Current for Internal Bus	Max 2A@5VDC	Max 2A@5VDC	Max 2A@5VDC
	Current Consumption	220mA@5VDC	170mA@5VDC	270mA@5VDC
	Electrical Isolation	Network to Logic : Isolation Logic to Field power : Isolation	Isolated CANopen : Yes Isolated power : Yes	Network to Logic : Isolation Logic to Field power : Isolation
	Back-up Fuse	≤ 1.6A Self-recovery	≤ 1.6A Self-recovery	≤ 1.6A Self-recovery
	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
Specification	Mount	35mm DIN rail mounting	35mm DIN rail mounting	35mm DIN rail mounting
	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)
Environment	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	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	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
Certification		UL	cULus Listed	cULus Listed

Digital Input/Output Specifications

Model		iR-DI16-K	iR-DM16-P	iR-DM16-N	iR-DQ16-P	iR-DQ16-N	iR-DQ08-R
Input Logic Number of Inputs Output Logic Number of Outputs Current Consumption HIGH Level Input Voltage LOW Level Input Voltage Output Voltage Output Current	Sink or Source		Sink or Source	Sink or Source	N/A	N/A	N/A
	16		8	8	0	0	0
	N/A		Source	Sink	Source	Sink	Relay
	0		8	8	16	16	8
	83mA@5VDC		130mA@5VDC	130mA@5VDC	196mA@5VDC	205mA@5VDC	220mA@5VDC
	15~28VDC		15~28VDC	15~28VDC	N/A	N/A	N/A
	0~5 VDC		0~5 VDC	0~5 VDC	N/A	N/A	N/A
	N/A		11~28VDC	11~28VDC	11~28VDC	11~28VDC	250VAC/ 30VDC
Specification Enclosure Dimensions WxHxD Weight Mount Protection Structure Storage Temperature Operating Temperature Relative Humidity Cross-section EMC Immunity UL	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)
	Plastic						
	27 x 109 x 81 mm						
	Approx. 0.12 kg						Approx. 0.13 kg
	35mm DIN rail mounting						
	IP20						
	-20° ~ 70° C (-4° ~ 158° F)						
	0° ~ 55° C (32° ~ 131° F)						
Environment Connection Certification	10% ~ 90% (non-condensing)						
	AWG 28-16						AWG 24-16
	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						

Analog Input/Output Specifications

Model		iR-AI04-VI	iR-AM06-VI	iR-AQ04-VI
Number of Analog Inputs Number of Analog outputs Current Consumption Analog Power Supply	4 (±10V/ ±20mA)		4 (±10V/ ±20mA)	0
	0		2 (±10V/ ±20mA)	4 (±10V/ ±20mA)
	70mA@5VDC		70mA@5VDC	65mA@5VDC
	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 Enclosure Dimensions WxHxD Weight Mount Protection Structure Storage Temperature Operating Temperature Relative Humidity Cross-section EMC Immunity UL	Yes			
	Plastic			
	27 x 109 x 81 mm			
	Approx. 0.12 kg			
	35mm DIN rail mounting			
	IP20			
	-20° ~ 70° C (-4° ~ 158° F)			
	0° ~ 55° C (32° ~ 131° F)			
Environment Connection Certification	10% ~ 90% (non-condensing)			
	AWG 28-16			AWG 24-16
	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			

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)
	Cross-section	AWG 28-16
Connection		Conforms to
Certification	EMC Immunity	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

Motion Control Specifications



Model		iR-PU01-P	
Input Logic Number of Inputs Output Logic Number of Outputs HIGH Level Input Voltage LOW Level Input Voltage Input current Input Impedance System Indicators Output Voltage Output Current Maximum input frequency Maximum Output frequency		Digital input/ output	Differential input/ output
		Sink Input	Differential Input
		4	3 (A/B/Z phase)
		Source Output	Differential Output
		4	2(A/B phase)
		15~28 VDC	-
		0~5 VDC	-
		24 VDC, 5 mA	Meets the Requirements of ANSI Standards TIA/EIA-485-A
		3 K Ω	-
		Red LED Input State	
		24VDC	Meets the Requirements of ANSI Standards TIA/EIA-485-A
		50 mA	
Specification		200KHz	2MHz
		40KHz	2MHz
	Number of Axis	1- Axis	
	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)	
	Cross-section	AWG 28-16	
Connection		Conforms to	
Certification	EMC Immunity	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	

Quick Feature Comparison

	Standard Model									Advanced Model		
	cMT2078X	cMT3072X cMT3072XH	cMT3092X	cMT2108X	cMT2158X	cMT3152X	cMT3161X	cMT3162X	cMT-FHDX-220	cMT-SVR-100 cMT-SVR-200	Gateway cMT-G01 / cMT-G02 cMT-G03 / cMT-G04	cMT-CTRL01
Audio Output			●		●	●	●	●	via HDMI			
Wi-Fi										cMT-SVR-200	cMT-G02	
CAN Bus		●	●			●		●				
Siemens MPI		cMT3072XH	●			●		●	●	●	●	●
Vibration Feedback								●				
Touch Gesture						●	●	●				
3G/4G Dongle	●	●	●	●	●	●	●	●	●	●		
cMT Viewer	●	●	●	●	●	●	●	●	●	●		
EasyWeb 2.0	●	●	●	●	●	●	●	●	●			
WebView	●	●	●	●	●	●	●	●	●			
VNC Server	●	●	●	●	●	●	●	●	●			
Barcode Scanner (Android)		●	●			●		●	●	●		
Event Bar Chart		●	●			●		●	●	●		
IP Camera/Media Player	●	●	●	●	●	●	●	●	●			
Picture View File Browser PDF Reader	●	●	●	●	●	●	●	●	●			
PLC Web Browser		●	●			●		●				
Energy Demand		●	●			●		●	●	●		
MQTT	●	●	●	●	●	●	●	●	●	●	●	●
OPC UA Client	●	●	●	●	●	●	●	●	●	●	●	●
OPC UA Server		●	●			●		●	Optional	Optional	●	●
Database Server		●	●			●		●	●	●	●	●
SQL Query		●	●			●		●	●	●	● *	● *
CODESYS	Optional	Optional	Optional	Optional	Optional	Optional		Optional	Optional			●
EasyAccess 2.0	Optional	Optional	Built-in License	Optional	Optional	Built-in License	Optional	Optional	Optional	cMT-SVR-100 cMT-SVR-200 Optional cMT-SVR-102 cMT-SVR-202 Built-in License	Optional	Optional

*Applicable software version: EasyBuilder Pro V6.05.02 or later.

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WEINTEK

Contact

Tel: +886-2-22286770
Fax: +886-2-22286771

Address: 9F., No.910, Zhongzheng Rd.,
Zhonghe Dist., New Taipei City 23586, Taiwan

Website: www.weintek.com
Sales: salesmail@weintek.com
Product Support: servicemail@weintek.com

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.

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



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