WEINTEK

cMT X Series

Fast x Smart x Reliable

cMT X Series

Full Featured Smart HMI

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

Premium Protection+

- Power Isolation
- PCB Coating
- NEMA4/ IP66
- CE / UL Certification

Performance
Quad-core CPU

Display
178° Wide Viewing Angle

Capacity
4GB Flash / 1GB RAM

Connectivity
400+ Communication Drivers

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Solution 01

Powerful Software Features

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

Ribbon Style

An intuitive and aesthetically pleasing user interface.

Window Layers

Edit complex projects with ease.

Simplified Design Process: Condition Feature

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

Simplified Design Process: Action Feature

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

1700+ Picture Libraries

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

Tool: cMT Diagnoser

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

Tool: Online Simulator

Verify communication and preview operation result without an actual HMI.

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

Multimedia Support

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

File Transfer and Access

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

Web Browser

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

Data Processing

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

Safety and Security

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

Feature Customization

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

More About Software

Solution 02

Data Integration

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

Industrial Protocol Integration

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

Why OPC UA?

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

MQTT Cloud Integration

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

Accelerating IoT Integration

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

Database Integration

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

Supported Databases

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

Solution 03

Mobile Monitoring

Choose the best means of monitoring depending on your application

VNC Viewer

Monitor the HMI with VNC Viewer.

WebView

Monitor the HMI on a web browser, be it Chrome or Safari.

EasyWeb

View historical datalog and event log in a webpage.

cMT Viewer App

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

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

Monitor Mode

View up to 20 HMI screens concurrently within a screen for maximum efficiency.

Google Play App Store

Solution 04

Weincloud

Dashboard × EasyAccess 2.0

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

Dashboard Dashboard Monitoring

Dashboard visualization helps obtain status overview and gain insights instantly.

Easy Deployment

No server hosting required.

Widget Variety

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

Intuitive UI

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

Secure Transmission

Data security backed by full SSL/TLS encryption.

Data Visualization

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

Data Integrity

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

EasyAccess 2.0 Remote Connection Service

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

Solution 05

Wireless Solution

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

cMT1106X / cMT2108X2 / cMT3102X / cMT3108XH

cMT X Series + M02 WiFi Module

Less Delay | Higher Speed | Wider Range | Better Deployment

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

Solution 06

Headless HMI

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

cMT-FHDX-820

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

cMT-SVRX-820/822

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

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

Solution 07

Programmable Control

HMI Integrated with CODESYS PLC Controller System + iR Series Module

Controller

HMI + CODESYS

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

cMT-CTRL01

An IIoT controller that integrates CODESYS and IIoT Gateway.

iR Series

iR-ETN40R

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

I/O Module

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

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

Basic

meeting the essential needs

cMT X Basic features essential UI elements and 400+ PLC communication protocols for essential needs of industrial automation.

Standard

enhanced for smart applications

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

Advanced

all-around smart HMI

Supporting everything cMT X Basic and Standard have, cMT X Advanced also excels in cross-platform integration given its IIoT protocol capabilities .

Headless HMI

going beyond size boundaries

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

cMT X Series Model Types

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

Naming Convention

cMT 3 07 2 X *

- **Series Name**: cMT X
- **Category**:
  - 1 Basic
  - 2 Standard
  - 3 Advanced
- **Screen Size**:
  - 07 7 ″
  - 09 9.7 ″
  - 10 10.1 ″
  - 15 15 ″
  - 16 15.6 ″
- **Ethernet Port**:
  - 2 Dual Ethernet Ports
  - 6 Single Ethernet Port
  - 8 Dual Ethernet Ports
- **Others**:
  - H High Resolution
  - T Wide Temperature

Software Features

Advanced Model

Specifications

	Model	cMT3072X2	cMT3072XH2	cMT3072XHT	cMT3092X
Display	Display	7″ TFT	7″ WVA	7″ WVA	9.7″ TFT
	Resolution	800 x 480	1024 x 600	1024 x 600	1024 x 768
	Brightness (cd/ ㎡)	400	450	450	350
	Contrast Ratio	800: 1	800: 1	800: 1	500:1
	Backlight Type	LED	LED	LED	LED
	Backlight Life Time	>30,000 hrs.	>30,000 hrs.	>30,000 hrs.	>30,000 hrs.
	Colors	16.7M	16.7M	16.7M	262K
	LCD Viewing Angle (T/B/L/R)	80/60/80/80	85/85/85/85	85/85/85/85	60/70/70/70
	Pixel Pitch (mm)	0.1926(H) x 0.179(V)	0.1506(H) x 0.1432(V)	0.1506(H) x 0.1432(V)	0.192(H) x 0.192(V)
Touch Panel	Type	4-wire Resistive Type	4-wire Resistive Type	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%	Active Area Length(X)±2%, Width(Y)±2%
Memory	Flash	4 GB	4 GB	4 GB	4 GB
	RAM	1 GB	1 GB	1 GB	1 GB
Processor		Quad-core RISC	Quad-core RISC	Quad-core RISC	Quad-core RISC
I/O Port	USB Host	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1
	Ethernet	LAN 1: 10/100 Base-T x 1 LAN 2: 10/100 Base-T x 1	LAN 1: 10/100 Base-T x 1 LAN 2: 10/100 Base-T x 1	LAN 1: 10/100 Base-T x 1 LAN 2: 10/100 Base-T x 1	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1
	COM Port	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W* 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, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W*
	CAN Bus	Yes	Yes	Yes	Yes
	Audio Output	N/A	N/A	N/A	Built-in Mono Speaker
RTC		Built-in	Built-in	Built-in	Built-in
Power	Input Power	24±20%VDC	24±20%VDC	24±20%VDC	24±20%VDC
	Power Isolation	Built-in	Built-in	Built-in	Built-in
	Power Consumption	820mA@24VDC	820mA@24VDC	820mA@24VDC	1A@24VDC
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC
Specification	PCB Coating	Yes	Yes	Yes	Yes
	Enclosure	Plastic	Plastic	Aluminum	Plastic
	Dimensions WxHxD	200.3 x 146.3 x 35.0 mm	200.3 x 146.3 x 35.0 mm	200.4 x 146.5 x 36.0 mm	260.6 x 203.1 x 44.5 mm
	Panel Cutout	192 x 138 mm	192 x 138 mm	192 x 138 mm	250 x 192 mm
	Weight	Approx. 0.6 kg	Approx. 0.6 kg	Approx. 0.8 kg	Approx. 1 kg
	Mount	Panel mount	Panel mount	Panel mount	Panel mount, VESA mount 75 x 75 mm
Environment	Protection Structure	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel	NEMA4 / IP66 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel
	Storage Temperature	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)
	Operating Temperature	0° ~ 55° C (32° ~ 131° F)	0° ~ 55° C (32° ~ 131° F)	-20° ~ 55° C (-4° ~ 131° F)	0° ~ 50° C (32° ~ 122° F)
	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Certificate	CE	CE marked	CE marked	CE marked	CE marked
	UL	cULus Listed	cULus Listed		cULus Listed
Software	Weincloud	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Built-in) Dashboard (Optional)
	CODESYS	Optional	Optional	Optional	Optional

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

WIDE² Wide viewing angle

Advanced Model

Dimensions

cMT3072X2	cMT3072XH2	cMT3072XHT	cMT3092X

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

Advanced Model

Specifications

	Model	cMT3108XH	cMT3102X	cMT3152X	cMT3162X
Display	Display	10.1″ WVA	10.1″ TFT	15″ WVA	15.6″ WVA
	Resolution	1280 x 800	1024 x 600	1024 x 768	1920 x 1080
	Brightness (cd/ m²)	500	350	350	300
	Contrast Ratio	800:1	500:1	2500: 1	800: 1
	Backlight Type	LED	LED	LED	LED
	Backlight Life Time	>50,000 hrs.	>50,000 hrs.	>70,000 hrs.	>30,000 hrs.
	Colors	16.7M	16.7M	16.2M	16.2M
	LCD Viewing Angle (T/B/L/R)	89/89/89/89	70/70/80/80	88/88/88/88	89/89/89/89
	Pixel Pitch (mm)	0.1695 (H) x 0.1695 (V)	0.2175 (H) x 0.2088 (V)	0.297(H) x 0.297(V)	0.17925(H) x 0.17925(V)
Touch Panel	Type	4-wire Resistive Type	4-wire Resistive Type	Tempered Glass, Capacitive Type Hardness Scale 7H	Tempered Glass, Capacitive Type Hardness Scale 7H
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%	N/A	N/A
Memory	Flash	4 GB	4 GB	4 GB	4 GB
	RAM	1 GB	1 GB	1 GB	1 GB
Processor		Quad-core RISC	Quad-core RISC	Quad-core RISC	Quad-core RISC
I/O Port	SD Card Slot	N/A	N/A	SD/SDHC	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	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1
	WiFi	M02 WiFi Expansion Module (Optional)	M02 WiFi Expansion Module (Optional)	N/A	N/A
	COM Port	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W*	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W*	Con.A: COM1 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W*	Con.A: COM1 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W*
	RS-485 Dual Isolation	N/A	N/A	Yes	N/A
	CAN Bus	Yes	Yes	Yes	Yes
	Audio Output	Built-in Mono Speaker	N/A	Built-in Mono Speaker Audio Line Out - 3.5 mm jack x 1	Built-in Mono Speaker
RTC		Built-in	Built-in	Built-in	Built-in
Power	Input Power	24±20%VDC	24±20%VDC	24±20%VDC	24±20%VDC
	Power Isolation	Built-in	Built-in	Built-in	Built-in
	Power Consumption	700mA@24VDC	1A@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
Specification	PCB Coating	Yes	Yes	Yes	Yes
	Enclosure	Plastic	Plastic	Front bezel: Plastic, Rear Enclosure: Aluminum	Front bezel: Plastic, Rear Enclosure: Aluminum
	Dimensions WxHxD	266 x 196 x 40 mm	271 x 213 x 38 mm	366 x 293 x 51.5 mm	400 x 263 x 27.6 mm
	Panel Cutout	255 x 185 mm	260 x 202 mm	352 x 279 mm	384 x 247 mm
	Weight	Approx. 1.1 kg	Approx. 1.2 kg	Approx. 2.85 kg	Approx. 1.6 kg
	Mount	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 100 x 100 mm
Environment	Protection Structure	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel	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° ~ 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)
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Certificate	CE	CE marked	CE marked	CE marked	CE marked
	UL	cULus Listed	cULus Listed	cULus Listed	cULus Listed
Software	Weincloud	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Built-in) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)
	CODESYS	Optional	Optional	Optional	Optional

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

Vibration Alert Capacitive Type Wide viewing angle

Advanced Model

Dimensions

cMT3108XH	cMT3102X	cMT3152X	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

Standard Model

Specifications

	Model	cMT2078X	cMT2108X2	cMT2158X	cMT2166X
Display	Display	7″ TFT	10.1″ TFT	15″ WVA	15.6″ WVA
	Resolution	800 x 480	1024 x 600	1024 x 768	1920 x 1080
	Brightness (cd/ m²)	400	350	350	300
	Contrast Ratio	800: 1	500:1	2500: 1	800: 1
	Backlight Type	LED	LED	LED	LED
	Backlight Life Time	>30,000 hrs.	>50,000 hrs.	>70,000 hrs.	>30,000 hrs.
	Colors	16.7M	16.7M	16.2M	16.2M
	LCD Viewing Angle (T/B/L/R)	80/60/80/80	70/70/80/80	88/88/88/88	89/89/89/89
	Pixel Pitch (mm)	0.1926(H) x 0.179(V)	0.2175 (H) x 0.2088 (V)	0.297(H) x 0.297(V)	0.17925(H) x 0.17925(V)
Touch Panel	Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type	Tempered Glass, Capacitive Type Hardness Scale 7H
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%	N/A
Memory	Flash	4 GB	4 GB	4 GB	4 GB
	RAM	1 GB	1 GB	1 GB	1 GB
Processor		Quad-core RISC	Quad-core RISC	Quad-core RISC	Quad-core RISC
I/O Port	SD Card Slot	N/A	N/A	SD/SDHC	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 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
	WiFi	N/A	M02 WiFi Expansion Module (Optional)	N/A	N/A
	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 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 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 Con.B: COM1 RS-232 4W, COM3 RS-232 2W* MPI is not supported.
	Audio Output	N/A	N/A	Built-in Mono Speaker Audio Line Out - 3.5 mm jack x 1	Built-in Mono Speaker
RTC		Built-in	Built-in	Built-in	Built-in
Power	Input Power	24±20%VDC	24±20%VDC	24±20%VDC	24±20%VDC
	Power Isolation	Built-in	Built-in	Built-in	Built-in
	Power Consumption	820mA@24VDC	1A@24VDC	1.3A@24VDC	0.9A@24VDC
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC
Specification	PCB Coating	Yes	Yes	Yes	Yes
	Enclosure	Plastic	Plastic	Aluminum	Front bezel: Plastic, Rear Enclosure: Aluminum
	Dimensions WxHxD	200.3 x 146.3 x 35.0 mm	271 x 213 x 38 mm	366 x 293 x 48.2mm	400 x 263 x 27.6 mm
	Panel Cutout	192 x 138 mm	260 x 202 mm	352 x 279 mm	384 x 247 mm
	Weight	Approx. 0.6 kg	Approx. 1.2 kg	Approx. 2.74 kg	Approx. 1.6 kg
	Mount	Panel mount	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 100 x 100 mm
Environment	Protection Structure	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel	NEMA4 / IP66 Compliant Front Panel
	Storage Temperature	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)
	Operating Temperature	0° ~ 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)
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Certificate	CE	CE marked	CE marked	CE marked	CE marked
	UL	cULus Listed	cULus Listed	cULus Listed	
Software	Weincloud	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)
	CODESYS	Optional	Optional	Optional	N/A

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

Capacitive Type Wide viewing angle

Standard Model

Dimensions

cMT2078X	cMT2108X2	cMT2158X	cMT2166X

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

Basic Model

Specifications & Dimensions

	Model	cMT1106X
Display	Display	10.1" TFT
	Resolution	1024 x 600
	Brightness (cd/ m²)	350
	Contrast Ratio	500:1
	Backlight Type	LED
	Backlight Life Time	>50,000 hrs.
	Colors	16.7M
	LCD Viewing Angle (T/B/L/R)	70/70/80/80
	Pixel Pitch (mm)	0.2175 (H) x 0.2088 (V)
Touch Panel	Type	4-wire Resistive Type
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%
Memory	Flash	4 GB
	RAM	1 GB
Processor		Quad-core RISC
I/O Port	USB Host	USB 2.0 x 1
	Ethernet	10/100 Base-T x 1
	WiFi	M02 WiFi Expansion Module (Optional)
	COM Port	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W* MPI is not supported.
RTC		Built-in
Power	Input Power	24±20%VDC
	Power Isolation	Built-in
	Power Consumption	720mA@24VDC
	Voltage Resistance	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC
Specification	PCB Coating	Yes
	Enclosure	Plastic
	Dimensions WxHxD	271 x 213 x 38 mm
	Panel Cutout	260 x 202 mm
	Weight	Approx. 1.2 kg
	Mount	Panel mount, VESA mount 75 x 75 mm
Environment	Protection Structure	NEMA4 / IP66 Compliant Front Panel
	Storage Temperature	-20° ~ 60° C (-4° ~ 140° F)
	Operating Temperature	0° ~ 50° C (32° ~ 122° F)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Certificate	CE	CE marked
Software	Weincloud	EasyAccess 2.0 (Optional) Dashboard (Optional)
	CODESYS	N/A

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

cMT1106X

Front View

Rear View

Bottom View

Cutout Dimensions

Accessories

Specifications & Dimensions

	Model	M02
Network	WiFi	IEEE 802.11 b/g/n 802.11b: max 19.76 dBm 802.11g: max 19.93 dBm 802.11n: max 19.99 dBm
I/O Port	SMA Female Connector	1
	Male Connector to HMI	1
Power	Input Power	5VDC
	Power Consumption	900mA@5VDC (powered by HMI)
	Voltage Resistance	500VAC (1min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC
Specification	PCB Coating	N/A
	Enclosure	Plastic
	Dimensions WxHxD	54.5 x 80 x 24.1 mm
	Weight	Approx. 80 g
	Mount	HMI connector + diagonal screw fastening
Environment	Protection Structure	M02: IP20 Compliant Antenna: IP66 Compliant
	Storage Temperature	-20° ~ 60° C (-4° ~ 140° F)
	Operating Temperature	0° ~ 50° C (32° ~ 122° F)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Certificate	CE	CE marked
	UL	cULus Listed

M02

Front View

Side View

Antenna

Headless HMI

Specifications & Dimensions

	Model	cMT-FHDX-820	cMT-SVRX-820 / 822	
Memory	Flash	4 GB	4 GB	
	RAM	1 GB	1 GB	
Processor		Quad-core RISC	Quad-core RISC	
I/O Port	SD Card Slot	N/A	Micro SD x1	
	USB Host	USB 2.0 x 1	USB 2.0 x 1	
	Ethernet	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1	LAN 1: 10/100/1000 Base-T x 1 LAN 2: 10/100 Base-T x 1	
	COM Port	COM1: RS-232 2W COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 2W COM2: RS-485 2W/4W COM3: RS-485 2W	
	HDMI	Customizable (max. resolution 1920 x 1080)	N/A	
	Recommended Resolutions (Please use these recommended screen resolutions to avoid compatibility issues.)	720x480 / 720x576 / 800x600 1024x768 / 1280x720 1366x768 / 1920x1080	N/A	
	Audio Output	HDMI Audio Output	N/A	
RTC		Built-in	Built-in	
Power	Input Power	24±20%VDC	24±20%VDC	
	Power Isolation	Built-in	Built-in	
	Power Consumption	850mA@24VDC	850mA@24VDC	
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	
	Isolation Resistance	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	
Specification	PCB Coating	Yes	Yes	
	Enclosure	Plastic	Plastic	
	Dimensions WxHxD	29.8 x 130 x 115 mm	29.8 x 130 x 115 mm	
	Weight	Approx. 0.24 kg	Approx. 0.24 kg	
	Mount	35 mm DIN rail mounting	35 mm DIN rail mounting	
Environment	Protection Structure	IP20	IP20	
	Storage Temperature	-20° ~ 60° C (-4° ~ 140° F)	-20° ~ 60° C (-4° ~ 140° F)	
	Operating Temperature	0° ~ 50° C (32° ~ 122° F)	0° ~ 50° C (32° ~ 122° F)	
	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	
Certificate	CE	CE marked	CE marked	
	UL	cULus Listed	cULus Listed	
Software	Weincloud	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Optional) Dashboard (Optional)	EasyAccess 2.0 (Built-in) Dashboard (Optional)
	CODESYS	Optional	Optional	

cMT-FHDX-820	cMT-SVRX-820 / 822
Front View	Front View
Side View	Side View
Top View	Top View
Bottom View	Bottom View

Other Model

Specifications & Dimensions

	Model	cMT-CTRL01	cMT-SVR-100 / 102	cMT-SVR-200 / 202
Memory	Flash	4 GB	256 MB	256 MB
	RAM	512 MB	256 MB	256 MB
	Data, Memory, Code	3 MB	N/A	N/A
	Retain area	16 KB (every minute) (Kept after reboots)	N/A	N/A
	Persistent area	16 KB (every minute) (Kept after downloads)	N/A	N/A
	File system	8MB	N/A	N/A
Processor		Dual-Core 32 bits RISC 1GHz	32-bit RISC 600MHz	32-bit RISC 600MHz
I/O Port	SD Card Slot	SD/SDHC	SD/SDHC	SD/SDHC
	USB Host	N/A	USB 2.0 x 1	USB 2.0 x 1
	Ethernet	Ethernet 1: 10/100/1000 Base-T x 1 Ethernet 2: 10/100 Base-T x 1	10/100/1000 Base-T x 2	10/100/1000 Base-T x 1
	WiFi	N/A	N/A	IEEE 802.11 b/g/n 802.11b: max 18.01 dBm 802.11g: max 11.02 dBm 802.11n: max 12.20 dBm
	COM Port	COM1: RS-232 2W COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 2W COM2: RS-485 2W/4W COM3: RS-485 2W
	Local bus	iBus	N/A	N/A
CODESYS	Protocol	Modbus TCP/IP Master, EtherCAT Master	N/A	N/A
RTC		Built-in	Built-in	Built-in
Power	Input Power	24±20%VDC	24±20%VDC	10.5~28VDC
	Power Isolation	Built-in	Built-in	Built-in
	Current for Internal Bus	Max 2A@5VDC	N/A	N/A
	Current Consumption	550mA@5VDC	N/A	N/A
	Power Consumption	Nominal 310mA@24VDC	230mA@24VDC	1A@12VDC ; 450mA@24VDC
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC	Exceed 50MΩ @ 500VDC
Specification	PCB Coating	Yes	Yes	Yes
	Enclosure	Plastic	Plastic	Plastic
	Dimensions WxHxD	50 x 109 x 81 mm	27 x 130 x 115 mm	27 x 130 x 115 mm
	Weight	Approx. 0.24 kg	Approx. 0.18 kg	Approx. 0.18 kg
	Mount	35 mm DIN rail mounting	35 mm DIN rail mounting	35 mm DIN rail mounting
Environment	Protection Structure	IP20	IP20	IP20
	Storage Temperature	-20° ~ 70° C (-4° ~ 158° F)	-20° ~ 70° C (-4° ~ 158° F)	-20° ~ 70° C (-4° ~ 158° F)
	Operating Temperature	-10° ~ 50° C (14° ~122° F)	-20° ~ 55° C (-4° ~ 131° F)	-10° ~ 55° C (14° ~ 131° F)
	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Certificate	CE	CE marked	CE marked	CE marked
	UL	cULus Listed	cULus Listed	cULus Listed
Software	Weincloud	EasyAccess 2.0 (Optional)	EasyAccess 2.0 (Optional) EasyAccess 2.0 (Built-in)	EasyAccess 2.0 (Optional) EasyAccess 2.0 (Built-in)
	CODESYS	Built-in	N/A	N/A

cMT-CTRL01	cMT-SVR-100 / 102	cMT-SVR-200 / 202

Front View

Front View

Front View

Side View

Side View

Side View

Top View

Top View

Top View

Bottom View

Bottom View

Bottom View

Communication Interface

iR Series Specifications

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

Communication Interface

Specifications

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

Digital Input/Output

Specifications

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

Analog Input/Output

Specifications

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)		
Connection	Cross-section	AWG 28-16		AWG 24-16
Certification	EMC Immunity	Conforms to EN 55032: 2012+AC: 2013, Class A; EN 61000-6-4: 2007+A1:2011; EN 55024: 2010+A1: 2015; EN 61000-6-2:2005		
	UL	cULus Listed		

Temperature

Specifications

Model		iR-AI04-TR
Number of Input Channels		4 (RTD/Thermocouple)
Current Consumption		65mA@5VDC
Analog Power Supply		24 VDC(20.4 VDC~28.8 VDC) (-15%~+20%)
Specification	PCB Coating	Yes
	Enclosure	Plastic
	Dimensions WxHxD	27 x 109 x 81 mm
	Weight	Approx. 0.12 kg
	Mount	35mm DIN rail mounting
Environment	Protection Structure	IP20
	Storage Temperature	-20° ~ 70° C (-4° ~ 158° F)
	Operating Temperature	0° ~ 55° C (32° ~ 131° F)
	Relative Humidity	10% ~ 90% (non-condensing)
Connection	Cross-section	AWG 28-16
Certification	EMC Immunity	Conforms to EN 55032: 2012+AC: 2013, Class A; EN 61000-6-4: 2007+A1:2011; EN 55024: 2010+A1: 2015; EN 61000-6-2:2005
	UL	cULus Listed

Motion Control

Specifications

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

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

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