



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!

1. Push Notification

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

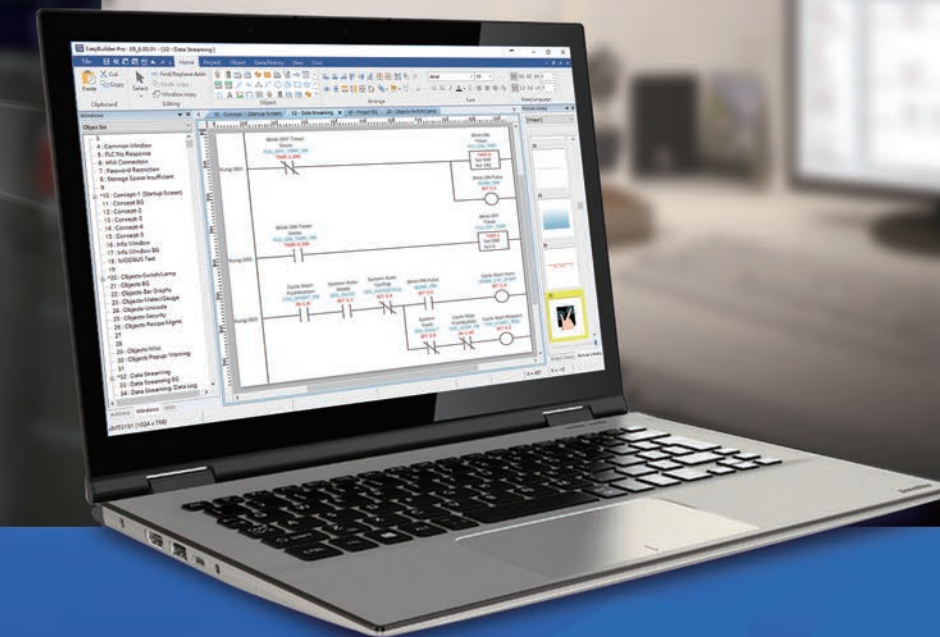


2. Pass-through

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

3. Remote Monitoring

- Monitor and control the remote HMI's EB project with cMT Viewer APP.



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.

2

IIoT Solution

OPC UA

cMT-G01/G02 Features

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



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).



For More Info!

cMT-G01/G02

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 Aliyun

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).



Publisher

MQTT



Subscriber

MQTT

4

IIoT Solution

Database Integration



For More Info!



SQL Query

Access database by using the full power of SQL. Use SQL to do database operations such as statistics, filtering, analysis, or read/write records.

History logs

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

Shared recipes

Access or manage recipes on database server.

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.



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.

EasyLauncher / cMT Viewer

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



For More Info!

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!



(cMT Series with CODESYS)

HMI

- Visualization by using EBPro
- Support IIoT protocols standard: MQTT & OPC UA

CODESYS

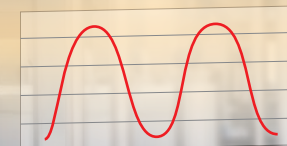
- Support CANopen & MODBUS TCP/IP
- Support Remote I/O

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.



Flow Sensor
Volume Flow



◀ Remote I/O

Heater Portion Valve

SV 41.19 °C
PV 41.12 °C

Remote I/O ▶

Remote I/O ▶

Push buttons

● Good ● Too High ● Too Low



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

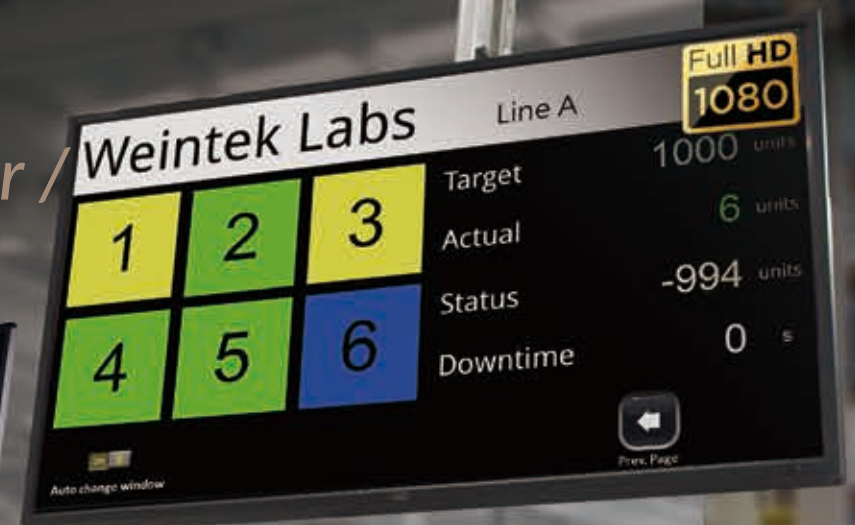


cMT-HDMI

cMT-HDMI has inherits all the rich HMI functionality found in the series. Without touch-screen 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.

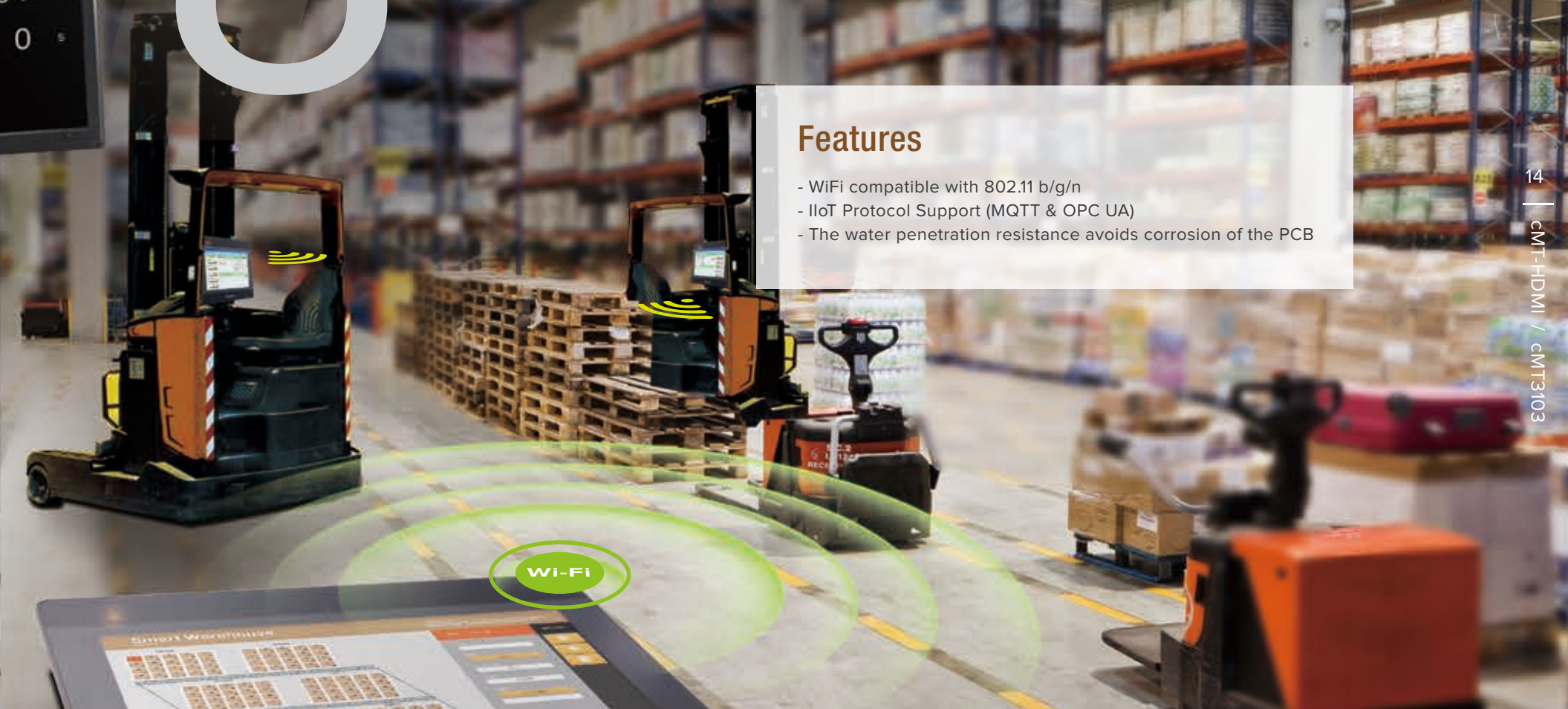
Features

- 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



8

Solution Wireless Solution



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.

Features

- WiFi compatible with 802.11 b/g/n
- IIoT Protocol Support (MQTT & OPC UA)
- The water penetration resistance avoids corrosion of the PCB



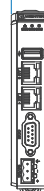
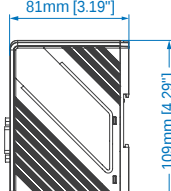
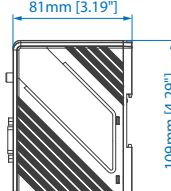
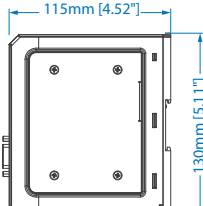
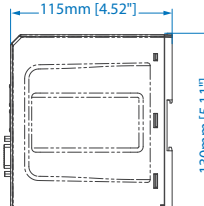
For More Info!

Specification



Model		cMT-G01	cMT-G02	cMT-HDMI	cMT-SVR-100/102	
Memory	Flash	256MB	256MB	4GB	256MB	
	RAM	256MB	256MB	1GB	256MB	
Processor		32 bits RISC Cortex-A8 600MHz	32 bits RISC Cortex-A8 600MHz	32 bits RISC Cortex-A9 1GHz	32 bits RISC Cortex-A8 600MHz	
I/O Port	SD Card Slot	N/A	N/A	N/A	SD/SDHC	
	USB Host	N/A	N/A	USB 2.0 x 1	USB 2.0 x 1	
	USB Client	N/A	N/A	N/A	N/A	
	Ethernet (LAN1)	10/100/1000 Base-T x 1	10/100 Base-T x 1	10/100/1000 Base-T x 1	10/100/1000 Base-T x 2	
	Ethernet (LAN2)	10/100 Base-T x 1		10/100 Base-T x 1		
	WiFi	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 COM2: RS-485 2W/4W COM3: RS-485 2W	COM1: RS-232 COM2: RS-485 2W/4W COM3: RS-485 2W	
	HDMI	N/A	N/A	Adjustable resolution up to 1920x1080	N/A	
	Audio Output	N/A	N/A	Yes	N/A	
RTC		Built-in	Built-in	Built-in	Built-in	
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	230mA@12VDC; 115mA@24VDC	1250mA@12VDC; 550mA@24VDC	230mA@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)	
Specification	PCB Coating	Yes	Yes	Yes	Yes	
	Enclosure	Plastic	Plastic	Plastic	Plastic	
	Dimensions WxHxD	109 x 81 x 27 mm	109 x 81 x 27 mm	130 x 115 x 29.8 mm	130 x 115 x 27 mm	
	Weight	Approx. 0.14 kg	Approx. 0.14 kg	Approx. 0.24 kg	Approx. 0.18 kg	
Environment	Mount	35mm DIN rail mounting	35mm DIN rail mounting	35mm DIN rail mounting	35mm DIN rail mounting	
	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° ~ 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)	-20° ~ 55°C (-4° ~ 131°F)	
Certificate	Relative Humidity	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	10% ~ 90% (non-condensing)	
Software	CE	CE marked	CE marked	CE marked	CE marked	
	UL	cULus Listed	Application in progress	Application in progress	cULus Listed	
Software		EasyBuilder Pro	EasyBuilder Pro	EasyBuilder Pro	EasyBuilder Pro	
		EasyAccess 2.0 (Optional)	EasyAccess 2.0 (Optional)	EasyAccess 2.0 (Optional)	EasyAccess 2.0 (Optional)	EasyBuilder Pro Built-in EasyAccess 2.0

Dimensions

cMT-G01	cMT-G02	cMT-HDMI	cMT-SVR-100/102
 27mm [1.06"]	 27mm [1.06"]	 29.8mm [1.17"] 125mm [4.92"]	 27mm [1.06"] 125mm [4.92"]
Front View	Front View	Front View	Front View
 81mm [3.19"] 109mm [4.29"]	 81mm [3.19"] 109mm [4.29"]	 115mm [4.52"] 130mm [5.11"]	 115mm [4.52"] 130mm [5.11"]
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-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/m ²)	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	512MB	32GB(SSD)	32GB (SSD)
	RAM	1GB	4GB	4GB
Processor		32 bits RISC Cortex-A9 1GHz	Intel Atom E3827	Intel Atom E3827
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 Audio Line Out - 3.5 mm jack x 1	Built-in Mono Speaker Audio Line Out - 3.5 mm jack x 1
	Video Input	N/A	N/A	N/A
RTC		Built-in	Built-in	Built-in
	Input Power	24±20%VDC	24±20%VDC	24±20%VDC
Power	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	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) / 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	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)

Specification

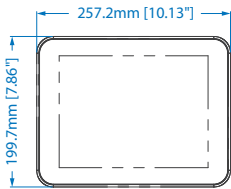


		cMT3072	cMT3090	cMT3103	cMT3151
Display	Display	7" IPS	9.7" TFT	10.1" TFT	15" TFT
	Resolution	1024 x 600	1024 x 768	1024 x 600	1024 x 768
	Brightness (cd/m ²)	450	350	350	400
	Contrast Ratio	800:1	500:1	500:1	700:1
	Backlight Type	LED	LED	LED	LED
	Backlight Life Time	>25,000 hrs.	>30,000 hrs.	>50,000 hrs.	>50,000 hrs.
	Colors	16.2M	262K	16.7M	16.2M
	LCD Viewing Angle(T/B/L/R)	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
	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	4GB	4GB	4GB	4GB
	RAM	1GB	1GB	1GB	1GB
Processor		32 bits RISC Cortex-A9 1GHz	32 bits RISC Cortex-A9 1GHz	32 bits RISC Cortex-A9 1GHz	32 bits RISC Cortex-A9 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	LAN1:10/100/1000 Base-T x 1 LAN2:10/100 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
	Wifi	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	N/A
	COM Port	Con.A : COM2 RS-485 2W/4W, COM3 RS-485, CAN Bus Con.B: COM1/COM3 RS-232*	Con.A : COM2 RS-485 2W/4W, COM3 RS-485, CAN Bus Con.B: COM1/COM3 RS-232*	Con.A : COM2 RS-485 2W/4W, COM3 RS-485, CAN Bus Con.B: COM1/COM3 RS-232*	COM1: RS-232/RS-485 2W/4W 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 Audio LineOut-3.5mm jackx1
	Video Input	N/A	N/A	N/A	NTSC/PAL RCA x 2
RTC		Built-in	Built-in	Built-in	Built-in
	Input Power	10.5~28VDC	24±20%VDC	10.5~28VDC	24±20%VDC
Power	Power Isolation	Built-in	Built-in	Built-in	Built-in
	Power Consumption	2A@12VDC; 1A@24VDC	900mA@24VDC	2A@12V; 1A@24V	900mA@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)
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) / NEMA4 / IP65 Compliant Front Panel	UL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front Panel	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° ~ 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	Application in progress	cULus Listed	Application in progress	cULus Listed
Software		EasyBuilder Pro	EasyBuilder Pro	EasyBuilder Pro	EasyBuilder Pro
		Built-in EasyAccess 2.0	Built-in EasyAccess 2.0	Built-in EasyAccess 2.0	Built-in EasyAccess 2.0
		CODESYS (Optional)	CODESYS (Optional)		CODESYS (Optional)

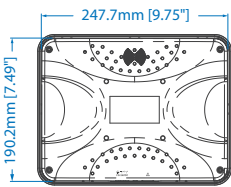
*cMT3072/ cMT3090/ cMT3103/ cMT3151: Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

Dimensions

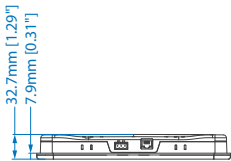
cMT-iV5



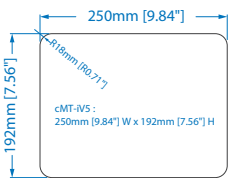
Front View



Rear View

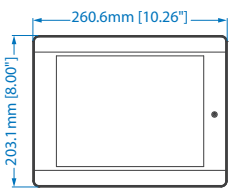


Bottom View

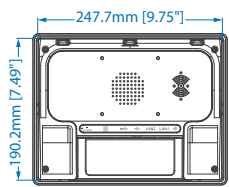


Cutout Dimensions

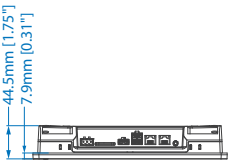
cMT-iPC10



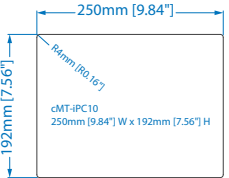
Front View



Rear View

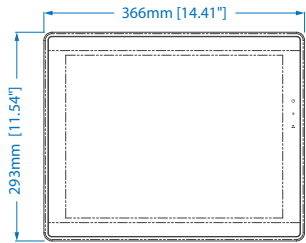


Bottom View

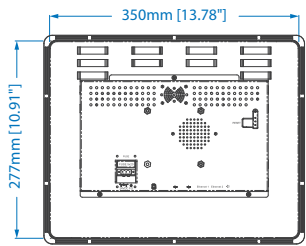


Cutout Dimensions

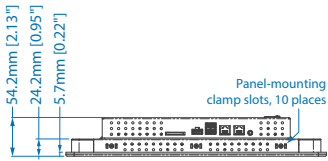
cMT-iPC15



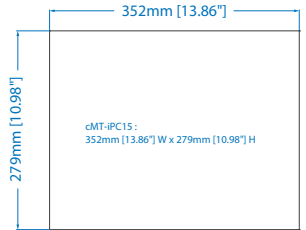
Front View



Rear View

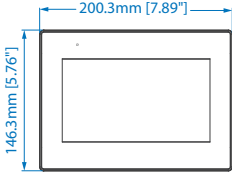
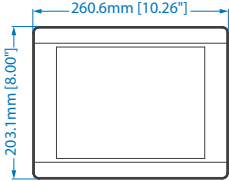
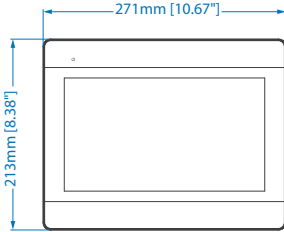
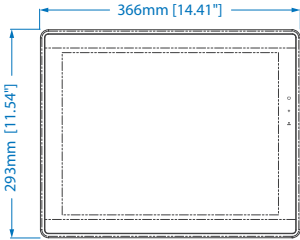
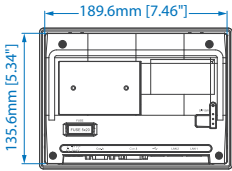
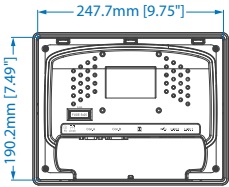
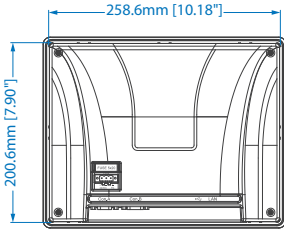
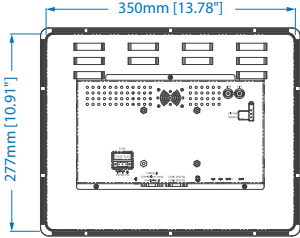
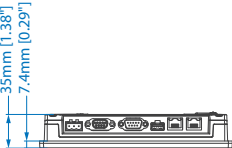
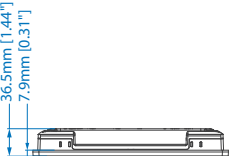
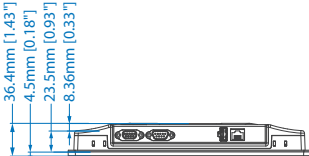
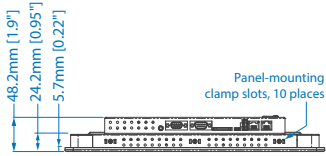
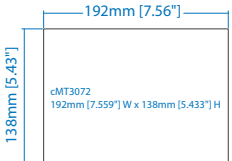
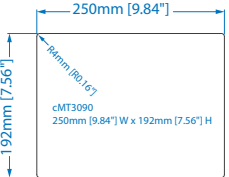
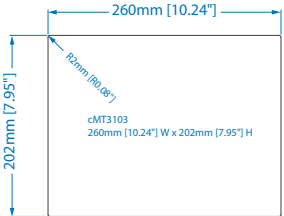
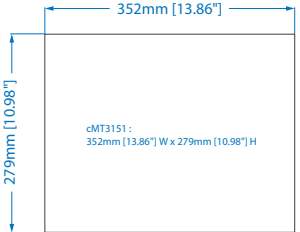


Bottom View



Cutout Dimensions

Dimensions

cMT3072	cMT3090	cMT3103	cMT3151
 200.3mm [7.89"] 146.3mm [5.76"]	 260.6mm [10.26"] 203.1mm [8.00"]	 271mm [10.67"] 213mm [8.38"]	 366mm [14.41"] 293mm [11.54"]
Front View	Front View	Front View	Front View
 189.6mm [7.46"] 135.6mm [5.34"]	 247.7mm [9.75"] 190.2mm [7.49"]	 258.6mm [10.18"] 200.6mm [7.90"]	 350mm [13.78"] 277mm [10.91"]
Rear View	Rear View	Rear View	Rear View
 35mm [1.38"] 7.4mm [0.29"]	 36.5mm [1.44"] 7.9mm [0.31"]	 36.4mm [1.43"] 4.5mm [0.18"] 23.5mm [0.93"] 8.36mm [0.33"]	 48.2mm [1.9"] 24.2mm [0.95"] 5.7mm [0.22"] Panel-mounting clamp slots, 10 places
Bottom View	Bottom View	Bottom View	Bottom View
 192mm [7.56"] 138mm [5.43"] cMT3072 192mm [7.559"] W x 138mm [5.433"] H	 250mm [9.84"] 192mm [7.56"] R4mm (R0.16") cMT3090 250mm [9.84"] W x 192mm [7.56"] H	 260mm [10.24"] 202mm [7.95"] R20mm (R0.86") cMT3103 260mm [10.24"] W x 202mm [7.95"] H	 352mm [13.86"] 279mm [10.98"] cMT3151 : 352mm [13.86"] W x 279mm [10.98"] H
Cutout Dimensions	Cutout Dimensions	Cutout Dimensions	Cutout Dimensions

iR Series



Communication Interface Specifications

		iR-ETN	iR-COP
Expansion I/O module	Number of Bus Terminals	Depends on Power consumption	Depends on Power consumption
	Digital Input Point	Max. 512	Max. 512
	Digital Output Point	Max. 512	Max. 512
	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	
General Specification			
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 Logic to Field power : Isolation	Network to Logic : Isolation Logic to Field power : Isolation
Specification	Back-up Fuse	≤ 1.6A Self-recovery	≤ 1.6A Self-recovery
	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
Environment	Mount	35mm DIN rail mounting	35mm DIN rail mounting
	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)
Certification	Vibration Resistance	conforms to EN 60068-2-6 / EN 60068-2-27	conforms to EN 60068-2-6 / EN 60068-2-27
	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



Digital Input Specifications

		iR-DM16-P	iR-DM16-N	iR-DI16-K
Number of Inputs Input Logic Current Consumption HIGH Level Input Voltage LOW Level Input Voltage Specification		8 Sink or Source 130mA@5VDC 15~28VDC 0~5 VDC	8 Sink or Source 130mA@5VDC 15~28VDC 0~5 VDC	16 Sink or Source 83mA@5VDC 15~28VDC 0~5 VDC
	Dimensions WxHxD	27 x 109 x 81 mm	27 x 109 x 81 mm	27 x 109 x 81 mm
Environment	Weight	Approx. 0.12 kg	Approx. 0.12 kg	Approx. 0.12 kg
	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)
Certification	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)
	Vibration Resistance	Conforms to EN 60068-2-6 / EN 60068-2-27	Conforms to EN 60068-2-6 / EN 60068-2-27	Conforms to EN 60068-2-6 / EN 60068-2-27
	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



Digital Output Specifications

		iR-DM16-P	iR-DQ16-P	iR-DM16-N	iR-DQ16-N	iR-DQ08-R
Number of Outputs Output Logic Current Consumption Output Voltage Output Current Specification		8 Source 130mA@5VDC 11~28VDC 0.5A per channel (Max 4A)	16 Source 196mA@5VDC 11~28VDC 0.5A per channel (Max 4A)	8 Sink 130mA@5VDC 11~28VDC 0.5A per channel (Max 4A)	16 Sink 205mA@5VDC 11~28VDC 0.5A per channel (Max 4A)	8 Relay 220mA@5VDC 250VAC/ 30VDC 2A per channel (Max 8A)
	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	27 x 109 x 81 mm
Environment	Weight	Approx. 0.12 kg	Approx. 0.12 kg	Approx. 0.12 kg	Approx. 0.12 kg	Approx. 0.12 kg
	Mount	35mm DIN rail mounting	35mm DIN rail mounting	35mm DIN rail mounting	35mm DIN rail mounting	35mm DIN rail mounting
	Protection Structure	IP20	IP20	IP20	IP20	IP20
	Storage Temperature	-20° ~ 70°C (-4° ~ 158°F)	-20° ~ 70°C (-4° ~ 158°F)	-20° ~ 70°C (-4° ~ 158°F)	-20° ~ 70°C (-4° ~ 158°F)	-20° ~ 70°C (-4° ~ 158°F)
Certification	Operating Temperature	0° ~ 55°C (32° ~ 131°F)	0° ~ 55°C (32° ~ 131°F)	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)	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	Conforms to EN 60068-2-6 / EN 60068-2-27	Conforms to EN 60068-2-6 / EN 60068-2-27	Conforms to EN 60068-2-6 / EN 60068-2-27
	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	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

Remote I/O





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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.

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.



RoHS ISO 9001:2015

EN / 2018.3