



Weintek Distributed by KEP | Sales, Service, and Support of all Weintek Products

Contact

Kessler-Ellis Products, Co.
10 Industrial Way East
Eatontown, NJ 07724

Toll Free: 800-631-2165
Tel: 732-935-1320
Fax: 732-935-9344

www.kep.com

CE RoHS ISO 9000: 2008

EN / 2017.01



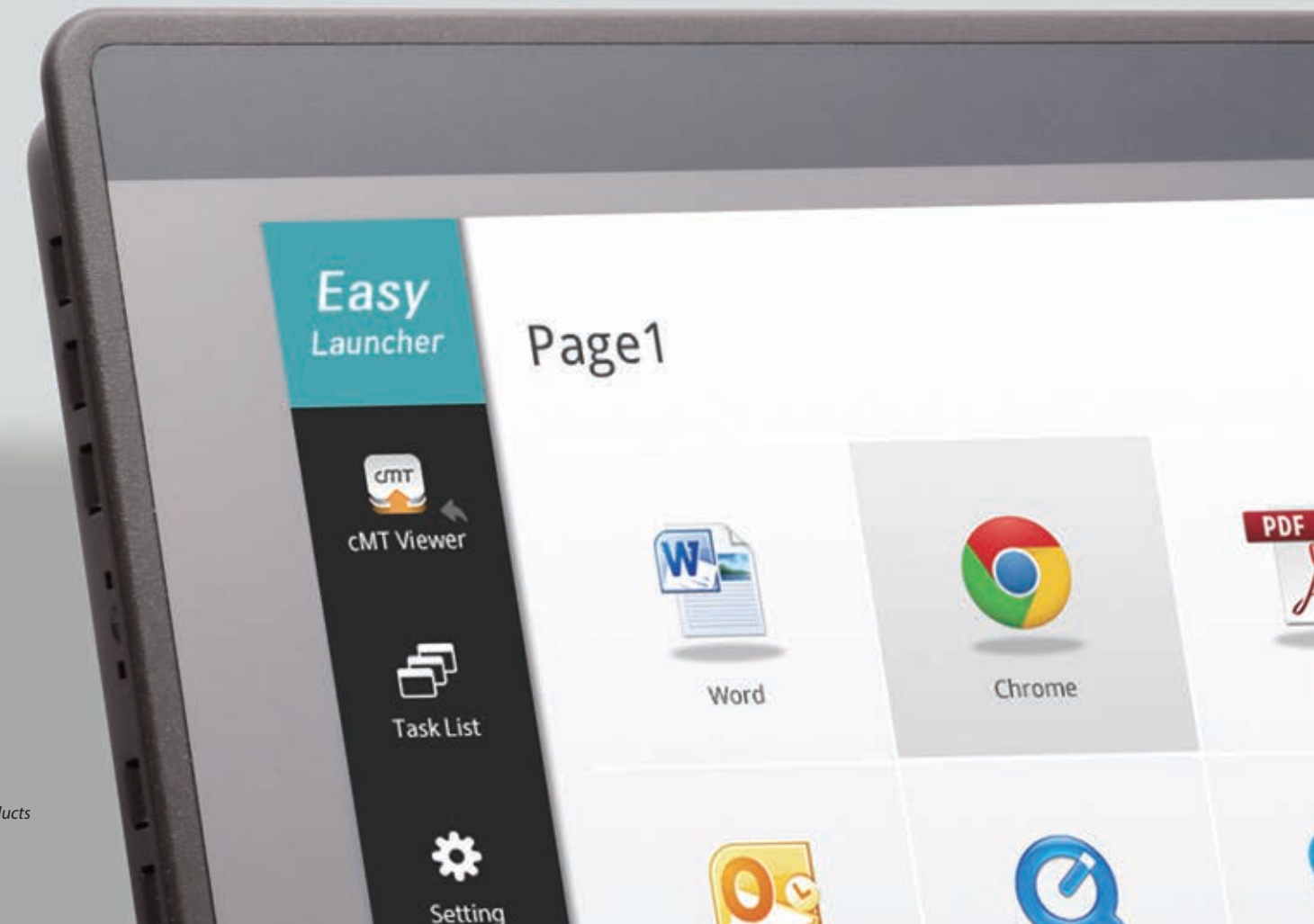
Weintek Distributed by KEP | Sales, Service, and Support of all Weintek Products



CMT Series

Professionals in Human Machine Interface

We provide the most advanced and stable HMI product solutions.





OPC UA

- Cross-Platform**
OPC UA client can run on different platforms, ex: Linux, Windows, Mac, iOS, and Android, to access OPC UA server on cMT HMI and obtain data.
- Subscribe Mechanism**
The OPC UA server on cMT HMI supports subscription. OPC client can subscribe to tag addresses, and receive real-time updates from the cMT HMI's OPC UA server when the data of factory machine changes.
- High Security**
When Connecting OPC UA client with the OPC UA server on cMT HMI, data is well protected by an encryption mechanism.

SOLUTION 1

Smart communication gateway with data processing functions of an HMI can help you quickly build IIoT environment.

cMT-G01, built in with the de-facto standard IIoT protocols: MQTT and OPC UA while having the ability to process data as conventional HMI, perfectly upgrades a factory to a smart factory.



cMT-G01 Hardware features

<p>High Speed</p>	<p>x2</p>	<p>Modbus</p>	<p>MQTT</p>	<p>OPC UA</p>
<p>Powerful CPU</p> <hr/> <p>600MHz</p>	<p>Dual Ethernet ports</p> <hr/> <p>2 RJ-45 ports</p>	<p>Industrial standard communication protocol</p> <hr/> <p>Modbus TCP/IP</p>	<p>IIoT standard communication protocol</p> <hr/> <p>Publish/Subscribe messaging transport</p>	<p>IIoT standard communication protocol</p> <hr/> <p>Support OPC UA client/server</p>
<p>13.8 s Booting speed</p> <p>4.9 s Speed of PLC Data* 100 Words</p>	<p>Fast communication speed, high data transmission reliability, and two mutually independent networks.</p>	<p>Most widely used communication protocol in industrial automation field.</p>	<p>Lightweight, open-source, and M2M communication protocol.</p>	<p>Cross-platform, secure, and M2M communication protocol.</p>

* Read 100 consecutive registers of Modbus TCP/IP device and then do calculation. The result will be written back to the original register.



MQTT

- Simple and Lightweight messaging protocol**
Use Publish/Subscribe messaging protocol for M2M (machine to machine) communications.
- Precise message publishing system**
" Time-driven publishing system " publishes messages at regular time intervals.
" Event-driven publishing system " publishes messages immediately when events occur.

SOLUTION 2

You can control HMI and execute the third party APPs at the same time!

cMT-IPC10/cMT-IPC15 is based on x86-based architecture and running on WINDOWS operating system. With EasyLauncher software, you can easily access those third party APPs, such as: MS Office, PDF Reader, Media player, and many more; together with cMT Viewer, you can monitor and control the HMI at the same time.



EasyLauncher is an APP launcher tool running on Panel PC (ex: cMT-IPC15). It allows you to get quick access to your favorite APPs.



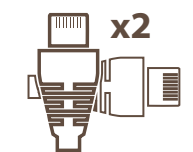
cMT-SVR Hardware features



Powerful CPU

600MHz

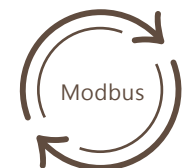
- 13.8 s Booting speed
- 4.9 s / 100 Words Speed of PLC Data*



Dual Ethernet ports

2 RJ-45 ports

Fast communication speed, high data transmission reliability, and two mutually independent networks.



High connectivity

300+ Drivers

The cMT-SVR's Modbus communication gateway enables the host computer to connect with more than 300 different kinds of controllers.



Wireless adapter

3G/4G Dongle

A portable device attached to the USB port to enable an HMI to connect to 3G network.



Ultra-high performance CPU

1.75 GHz Dual-core 64bit Intel HD Graphics

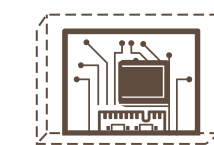
- 2565 (Score) Benchmark from PCMARK
- 6.39399 Mpx/s Image manipulation



High resolution display

1024x768 pixels 9.7 Inch / 15 Inch

Boast excellent graphics display.



Powerful features

32GB SSD 4GB RAM

Offer perfect multi-tasking performance in various industrial environments.



Fast transmission interface

USB 3.0

- 480 Mbit/s USB 2.0
- 5 Gbit/s USB 3.0



* Read 100 consecutive registers of Modbus TCP/IP device and then do calculation. The result will be written back to the original register.



cMT-iV5 & cMT-SVR

The cMT-SVR is dedicated to data processing and communication protocol conversion, while you can use one or more cMT-iV5s to control and monitor the cMT-SVR with the same display.

SOLUTION 3

You can have more flexible installations to operate your HMI!

You can install your cMT-SVR and PLC in the same control cabinet and install one or more cMT-iV5s located on any place of the machine for connecting to the same cMT-SVR.



cMT-iV5

Hardware features



Powerful features

1GHz Dual-core CPU
1GB RAM

Boast excellent graphics performance.

1.3 s
2MB/10Page

JPG File
Display



High resolution display

9.7 Inch
1024x768 pixels

Boast excellent graphics display.



Unprecedented operating experience

7H Tempered glass
Capacitive Touch panel

The Multi-touch panel makes your operating experience extremely smooth and easy.

■ Resistive VS. ■ Capacitive (Touch Panel)

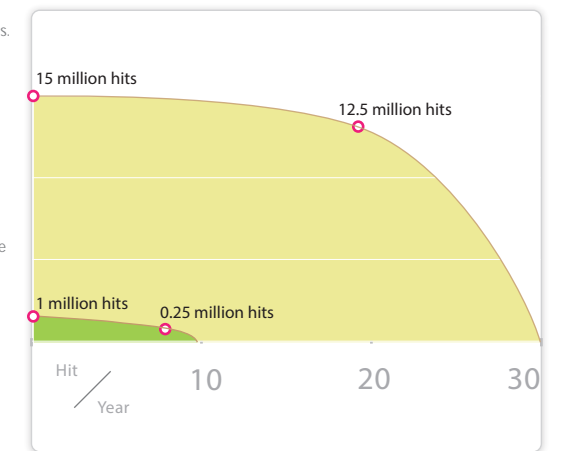
Capacitive touch panel
The capacitive touch panel can detect traces of electrical current from the finger to the point touched in order to identify the touch point X-Y coordinates.



Resistive touch panel
When the operator touches the resistive touch panel, the upper film and lower layer of ITO glass come into contact generating a signal that identifies the X-Y coordinates of the touch point.



Lifecycle (Hitting durability)





Video input
Any abnormal events can be recorded for issue tracking.



CUPS protocol supported
Support most of the printers on the market.

SOLUTION 4

HMI is also a HMI server!

cMT3090 / cMT3151 adopts dual-core CPU which greatly increases its performance of data/graphic processing. cMT3090 / cMT3151 is not only operating like a conventional HMI, but also working as a server. You can use cMT Viewer, which is running on cMT-iPC10 / cMT-iPC15 or cMT-iV5, to connect to cMT3090 / cMT3151 for monitoring and controlling.



cMT3090 / cMT3151

Hardware features



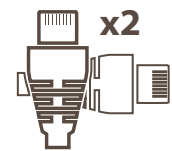
Ultra-high speed CPU

1GHz Dual-core CPU

9.48 s Booting speed

3.7 s / 100 Words Speed of PLC Data

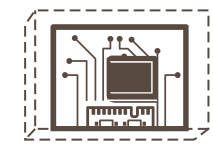
0.9 s / 2MB/10Page JPG File Display



Dual Ethernet ports

2 RJ-45 ports

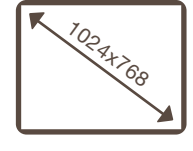
Fast communication speed, high data transmission reliability, and two mutually independent networks.



Powerful features

4GB Flash
1GB RAM

Provide sufficient storage and fast data / graphic processing.



High resolution display

9.7 / 15 Inch
1024x768 pixels

Boast excellent graphics display.



IIoT standard communication protocol

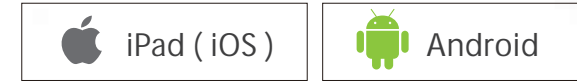
Support MQTT & OPC UA client/server

Offer users who require communication between onsite machines and upper layer management systems, to simultaneously monitor machines and transfer data.

MOBILE SOLUTION

The cMT Series aims to increase the capacity, productivity, and efficiency of your system. The cMT Viewer running on iPad and Android tablets allows you to monitor the operational status of machines anywhere on the plant floor, with immediate access to real-time information, alarms, and events.

We support



(cMT-SVR/cMT3090/cMT3151 can be connected by cMT Viewer)

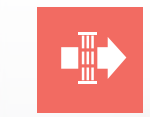


REMOTE SOLUTION

EasyAccess 2.0 enables you to access remote HMIs from anywhere in the world. You do not need to memorize the HMI's IP address, spend time on setting up the router, or configuring the complicated port mapping. Just simply activate EasyAccess 2.0 service on your HMI and execute EasyAccess 2.0 APP on your PC/Tablet to remotely access this HMI.

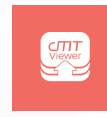


What can we do?



Pass-through

Execute PLC ladder program to modify the remote PLC's parameters.



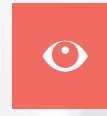
cMT Viewer

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



HMI manage

Manage your HMI on EasyAccess 2.0 web system.



VNC

The fastest remote control application with RFB protocol.



Connect to your HMIs.
(cMT3090/cMT3151 / cMT SVR)

Launch EasyAccess 2.0 app on your
PC/Panel PC/Tablet PC/iPad/Android tablet.



Specification



	Model	cMT-G01	cMT-SVR-100 / 102	cMT-iV5	cMT-iPC10	
Display	Display	N/A	N/A	9.7" TFT	9.7" TFT	
	Resolution	N/A	N/A	1024 x 768	1024 x 768	
	Brightness (cd/m ²)	N/A	N/A	350	350	
	Contrast Ratio	N/A	N/A	500:1	500:1	
	Backlight Type	N/A	N/A	LED	LED	
	Backlight Life Time	N/A	N/A	>30,000 hrs.	>30,000 hrs.	
	Colors	N/A	N/A	262K	262K	
	LCD Viewing Angle(T/B/L/R)	N/A	N/A	70/70/70/60	60/70/70/70	
	Touch Panel	Type	N/A	N/A	Tempered Glass, Capacitive Type	4-wire Resistive Type
		Accuracy	N/A	N/A	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%
Memory	Flash	256 MB	256 MB	512 MB	32 GB (SSD)	
	RAM	256 MB	256 MB	1 GB	4 GB	
Processor		32 bits RISC Cortex-A8 600MHz	32 bits RISC Cortex-A8 600MHz	32 bits RISC Cortex-A9 1GHz	Intel Atom E3827	
I/O Port	SD Card Slot	N/A	SD/SDHC	N/A	SD/SDHC/SDXC	
	USB Host	N/A	USB 2.0 x 1	N/A	USB 2.0 x 2 / USB 3.0 x 1	
	USB Client	N/A	N/A	N/A	N/A	
	Ethernet	LAN1:10/100/1000 Base-T x 1 LAN2:10/100 Base-T x 1	10/100/1000 Base-T x 2	10/100/1000 Base-T x 1	10/100/1000 Base-T x 2	
	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	N/A	N/A	
	RS-485 Dual Isolation	N/A	N/A	N/A	N/A	
	CAN Bus	N/A	N/A	N/A	N/A	
	Audio Output	N/A	N/A	Built-in Mono Speaker	Built-in Mono Speaker Audio Line Out - 3.5 mm jack x 1	
	Video Input	N/A	N/A	N/A	N/A	
	RTC		Built-in	Built-in	Built-in	Built-in
Power	Input Power	24±20%VDC	24±20%VDC	24±20%VDC	24±20%VDC	
	Power Isolation	Built-in	Built-in	Built-in	Built-in	
	Power Consumption	230mA@24VDC	230mA@24VDC	900mA@24VDC	1.5A@24VDC	
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	
	Isolation Resistance	Exceed 50M ^Ω @ 500VDC	Exceed 50M ^Ω @ 500VDC	Exceed 50M ^Ω @ 500VDC	Exceed 50M ^Ω @ 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	130 x 115 x 27 mm	257.2 x 199.7 x 32.7 mm	260.6 x 203.1 x 44.5 mm
		Panel Cutout	N/A	N/A	250 x 192 mm	250 x 192 mm
Weight		Approx. 0.14 kg	Approx. 0.18 kg	Approx. 0.76 kg	Approx. 1.1 kg	
Environment	Mount	35 mm DIN rail mounting	35 mm DIN rail mounting	Panel mount, VESA mount 75 x 75 mm	Panel mount, VESA mount 75 x 75 mm	
	Protection Structure	IP20	IP20	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° ~ 70°C (-4° ~ 158°F)	-20° ~ 60°C (-4° ~ 140°F)	-20° ~ 60°C (-4° ~ 140°F)	
Certificate	Operating Temperature	0° ~ 50°C (32° ~ 122°F)	-20° ~ 55°C (-4° ~ 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)	
	CE	CE marked	CE marked	CE marked	CE marked	
	UL	Application in progress	cULus Listed	cULus Listed	Application in progress	
Software		EasyBuilder Pro	EasyBuilder Pro	cMT Viewer	*Windows 7 / Windows 8.1 (EasyLauncher+cMT Viewer)	
			EasyBuilder Pro Built-in EasyAccess 2.0			

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

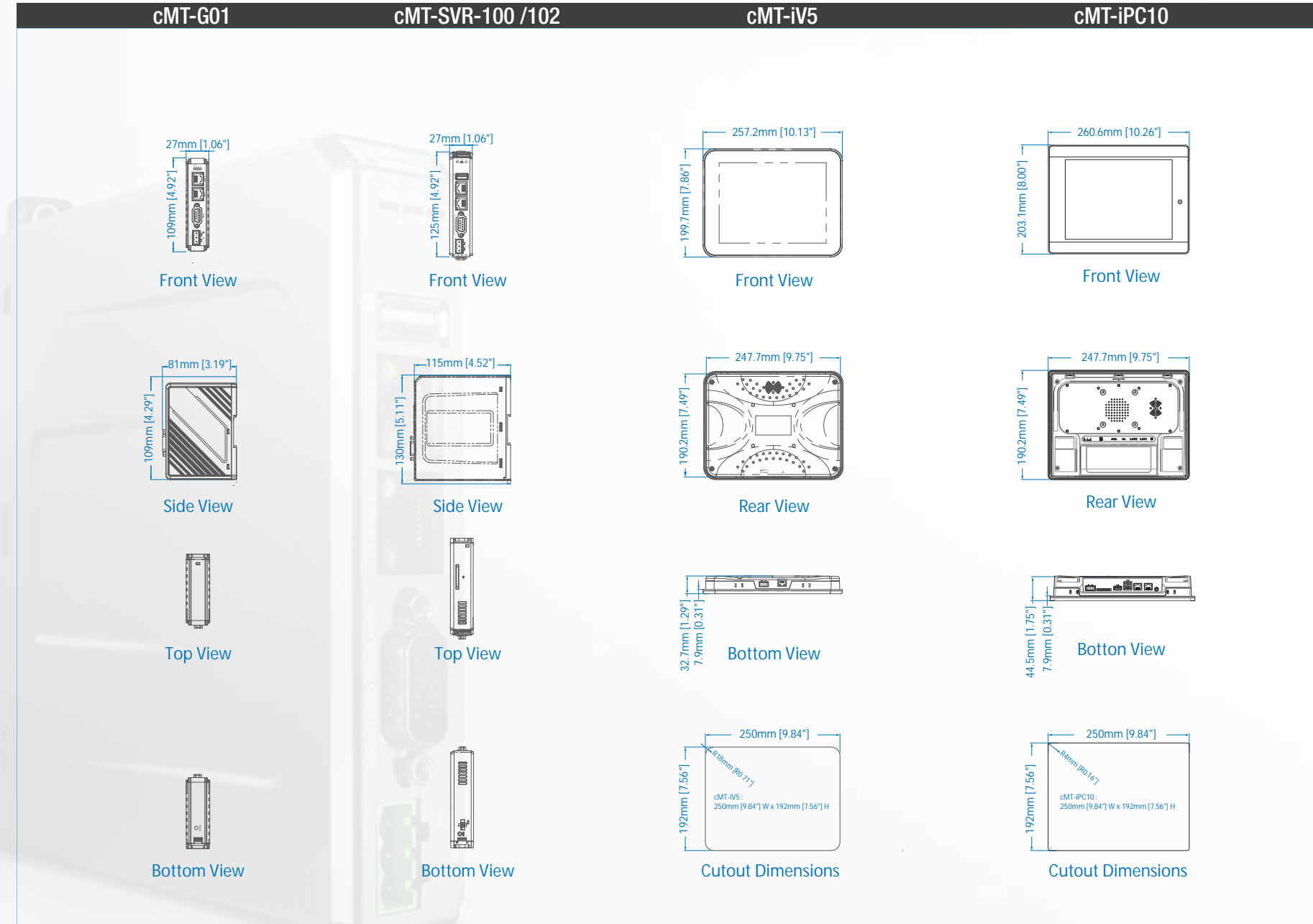
Specification



	Model	cMT-iPC15	cMT3090	cMT3151	
Display	Display	15" TFT	9.7" TFT	15" TFT	
	Resolution	1024 x 768	1024 x 768	1024 x 768	
	Brightness (cd/m ²)	400	350	400	
	Contrast Ratio	700:1	500:1	700:1	
	Backlight Type	LED	LED	LED	
	Backlight Life Time	>50,000 hrs.	>30,000 hrs.	>50,000 hrs.	
	Colors	16.2M	262K	16.2M	
	LCD Viewing Angle(T/B/L/R)	70/70/80/80	70/70/70/60	70/70/80/80	
	Touch Panel	Type	4-wire Resistive Type	4-wire Resistive Type	4-wire Resistive Type
		Accuracy	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%	Active Area Length(X)±2%, Width(Y)±2%
Memory	Flash	32 GB (SSD)	4 GB	4 GB	
	RAM	4 GB	1 GB	1 GB	
Processor		Intel Atom E3827	32 bits RISC Cortex-A9 1GHz	32 bits RISC Cortex-A9 1GHz	
I/O Port	SD Card Slot	SD/SDHC/SDXC	SD/SDHC	SD/SDHC	
	USB Host	USB 2.0 x 2 / USB 3.0 x 1	USB 2.0 x 1	USB 2.0 x 1	
	USB Client	N/A	N/A	USB 2.0 x 1 (Micro USB)	
	Ethernet	10/100/1000 Base-T x 2	LAN1:10/100/1000 Base-T x 1 LAN2:10/100 Base-T x 1	LAN1:10/100/1000 Base-T x 1 LAN2:10/100 Base-T x 1	
	COM Port	N/A	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	Yes	
	CAN Bus	N/A	Yes	Yes	
	Audio Output	Built-in Mono Speaker Audio Line Out - 3.5 mm jack x 1	Built-in Mono Speaker	Built-in Mono Speaker Audio Line Out - 3.5 mm jack x 1	
	Video Input	N/A	N/A	NTSC/PAL RCA x 2	
	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	2A@24VDC	900mA@24VDC	900mA@24VDC	
	Voltage Resistance	500VAC (1 min.)	500VAC (1 min.)	500VAC (1 min.)	
	Isolation Resistance	Exceed 50M ^Ω @ 500VDC	Exceed 50M ^Ω @ 500VDC	Exceed 50M ^Ω @ 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	Aluminum	Plastic	Aluminum
		Dimensions WxHxD	366 x 293 x 54.2 mm	260.6 x 203.1 x 36.5 mm	366 x 293 x 48.2 mm
		Panel Cutout	352 x 279 mm	250 x 192 mm	352 x 279 mm
Weight		Approx. 2.76 kg	Approx. 0.92 kg	Approx. 2.45 kg	
Environment	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	
	Protection Structure	UL Type 4X (indoor use only) / 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° ~ 70°C (-4° ~ 158°F)	-20° ~ 60°C (-4° ~ 140°F)	-20° ~ 70°C (-4° ~ 158°F)	
Certificate	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)	
	CE	CE marked	CE marked	CE marked	
	UL	Application in progress	Application in progress	cULus Listed	
Software		*Windows 7 / Windows 8.1 (EasyLauncher+cMT Viewer)	EasyBuilder Pro Built-in EasyAccess 2.0	EasyBuilder Pro Built-in EasyAccess 2.0	

*cMT-iPC15: License of Windows OS is excluded. *cMT3090/cMT3151: Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

Dimensions



Dimensions

