cMT-iPC15/cMT-iPC10

User Manual





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Warning

This is Class A Product. In domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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1. Overview

cMT-iPC15 / cMT-iPC10, based on Windows[®] OS, can connect cMT HMI using cMT Viewer and serves as HMI, and it runs third party applications. By using cMT Launcher dedicatedly designed by Weintek R & D group, it's easy to customize cMT-iPC15 / cMT-iPC10's desktop into smartphone-like UI and manage access control of apps. The shortcut name and icon of the application can be customized and placed in different categories and different pages.

2. Specification

cMT-iPC15

Display15' TFT ResolutionDisplayResolution1024 x 768Brightness (cd/m ²)400Contrast Ratio700:1Backlight Life Time>50,000 hrs.Colors16.2MLCD Viewing Angle (T/B/L/R)70/70/80/80Touch PanelTypeAccuracyActive Area Length(X)±2%, Width(Y)±2%MemorySSDSSD64 GBProcessorIntel Atom [®] E3827 processorJ/O PortSD Card SlotSD Card SlotSD/SDHC/SDXCUSB HostUSB 2.0 x 2/ USB 3.0 x 1Ethernet10/100/1000 Base-T x 2Audio OutputBuilt-in Mono SpeakerAudio OutputBuilt-inPower244:20%/VDCPower Roser500VAC (1 min.)Isolation ResistanceExceed 50M/2 G on UnitSpecificationDisestancePower Solation24:223 x 54.2 mmPower Consumption2.4@:24VDCVibration Endurance10 to 25H2(X,Y,Z direction 2G 30 minutes)Vitration Endurance10 to 25H2(X,Y,Z direction 2G 30 minutes)Panel Cutout352 x 279 mmWeightApprox. 2.76 kgMountPanel mount, VESA mount 75 x 75 mmPanel CutoutG2% ~ 70°C (4* - 158*F)Operating Temperature0* ~ 50°C (32* ~ 122*F)Relative Humidity10% ~ 90% (non-condensing)CertificateCECEOS Support"Windows® 7 / Windows® 10 IoTEnterprise(EasyLauncher + cMT Viewer)				
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EnvironmentProtection StructureUL Type 4X (indoor use only) / NEMA4 / IP65 Compliant Front PanelStorage Temperature-20° ~ 70°C (-4° ~ 158°F) Operating Temperature0° ~ 50°C (32° ~ 122°F)Relative Humidity10% ~ 90% (non-condensing)CertificateCE ULCE marked CULus ListedOS Support* Windows® 7 / Windows® 8.1 / Windows® 10 IoT Enterprise (EasyLauncher + cMT Viewer)		Mount	Panel mount, VESA mount 75 x 75 mm	
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Certificate CE UL CE marked cULus Listed OS Support * Windows® 7 / Windows® 8.1 / Windows® 10 IoT Enterprise (EasyLauncher + cMT Viewer)		Relative Humidity	10% ~ 90% (non-condensing)	
OS Support CUL cULus Listed OS Support * Windows [®] 7 / Windows [®] 8.1 / Windows [®] 10 IoT Enterprise (EasyLauncher + cMT Viewer)	Certificate	CE	CE marked	
* Windows [®] 7 / Windows [®] 8.1 / Windows [®] 10 IoT Enterprise (EasyLauncher + cMT Viewer)	Continuate	UL	cULus Listed	
OS Support Enterprise (EasyLauncher + cMT Viewer)			* Windows [®] 7 / Windows [®] 8.1 / Windows [®] 10 IoT	
(EasyLauncher + cMT Viewer)	OS Support		Enterprise	
			(EasyLauncher + cMT Viewer)	



*License of Windows OS is excluded.

*Windows is a trademark or a registered trademark of Microsoft Corporation in the United States and/or other countries.

*Intel Atom is a trademark of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

cMT-iPC10

	Display	9.7" TFT	
	Resolution	1024 x 768	
	Brightness (cd/m ²)	350	
Dicploy	Contrast Ratio	500:1	
Display	Backlight Type	LED	
	Backlight Life Time	>30,000 hrs.	
	Colors	262K	
	LCD Viewing Angle (T/B/L/R)	60/70/70/70	
Touch Danal	Туре	4-wire Resistive Type	
Touch Faller	Accuracy	Active Area Length(X)±2%, Width(Y)±2%	
Momory	SSD	64 GB	
wiemory	RAM	4 GB	
Processor		Intel Atom [®] E3827 processor	
	SD Card Slot	SD/SDHC/SDXC	
	USB Host	USB 2.0 x 2 / USB 3.0 x 1	
I/O Port	Ethernet	10/100/1000 Base-T x 2	
		Built-in Mono Speaker	
		Audio Line Out – 3.5 mm jack x 1	
RTC		Built-in	
	Input Power	24±20%VDC	
	Power Isolation	Built-in	
Power	Power Consumption	1.5A@24VDC	
I OWEI	Voltage Resistance	500VAC (1 min.)	
	Isolation Resistance	Exceed 50MΩ @ 500VDC	
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)	
	PCB Coating	Yes	
	Enclosure	Plastic	
Specification	Dimensions WxHxD	260.6 x 203.1 x 44.5 mm	
opecification	Panel Cutout	250 x 192 mm	
	Weight	Approx. 1.1 kg	
	Mount	Panel mount, VESA mount 75 x 75 mm	
	Protection Structure	UL Type 4X (indoor use only) / NEMA4 / IP65	
		Compliant Front Panel	
Environment	Storage Temperature	-20° ~ 60°C (-4° ~ 140°F)	
	Operating Temperature	0° ~ 50°C (32° ~ 122°F)	
	Relative Humidity	10% ~ 90% (non-condensing)	
Certificate	CE	CE marked	
Ochimicate	UL	cULus Listed	
		* Windows [®] 7 / Windows [®] 8.1 / Windows [®] 10 IoT	
OS Support		Enterprise	
		(EasyLauncher + cMT Viewer)	

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3. Dimensions

cMT-iPC15



cMT-iPC15 / cMT-iPC10 User Manual



cMT-iPC10



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4. LED Indicators

cMT-iPC15 The LED indicators indicate: Orange LED: Power status Green LED: SSD writing status Blue LED: Ethernet communication status

cMT-iPC10 The LED indicator indicates: Orange LED: Power status

5. Lithium Battery

The cMT-iPC15 / cMT-iPC10 require a CR-2032 lithium battery to keep the RTC running.

After replacing the battery, please enter BIOS to manually set RTC.

Note: Please use CR-2032 as the replacement battery when battery runs out. Using other types of battery can cause incorrect display of time.

6. Entering BIOS

You can enter BIOS settings by the following two ways:

- Connect a USB keyboard and press F2 key at startup.
- Press and hold on one of the four corners of the screen at startup.



7. Installing Windows OS

- Read the Windows installation disc by connecting a USB CD-ROM drive. (Or, burn the Windows ISO image to a USB drive, and then insert the USB drive into HMI.)
- 2. Press and hold on the center of the screen and then select the device.



(Or, connect a USB keyboard, and press F5 key at startup.)

Note:

 Since cMT-iPC15 / cMT-iPC10 does not offer Windows recovery disc, it is highly recommended to back up the system after installing Windows.



8. Turning ON/OFF the HMI

ON:

To turn on the HMI, go to BIOS and set whether to automatically turn on, or press the power button to turn on, when the HMI is connected to power supply.

Go to BIOS \ Advanced \ South Cluster Configuration \ Miscellaneous Configuration \ State After G3:

SO State: Automatically turn on when connected to power supply.

S5 State: Press the power button to turn on when connected to power supply.

Advanced	
Miscellaneous Configuration	Item Specific Help
Hiscellaneous Configuration State After 63 (<u>55 State</u>) Clock Spread Spectrum (Disable)	Specify what state to go to when power is re-applied after a power failure (G3 state)
P1 Help 14 Select Item 🖬 Change Va	lues 🛛 😝 Setup Defaults

OFF:

To turn off the HMI, you can either turn off in Windows, or set the function of the power button in Windows Control Panel \ System and Security \ Power Options \ Change what the power buttons do, and press the power button when HMI is ON.

(1) Unplugging power cord directly can cause stop error and lead to data loss.



9. Driver

After installing Windows OS, install the required software / hardware drivers, in the same order as listed in the following link.

Download Link:

cMT-iPC15:

http://www.weintek.com/Download/cMT/cMT iPC15/driver/cMT iPC15 driver.htm cMT-iPC10:

http://www.weintek.com/Download/cMT/cMT iPC10/driver/cMT iPC10 driver.htm

10. Touchscreen Calibration

To do touchscreen calibration, run HIDeGalaxTouch Tool.

To do an advanced calibration, go to [Advanced] \ [Linearization], and choose from 9 Points or 25 Points Calibration.

HIDeGalaxTouch	Tool V2.12.0.8813 : US	B Touchscreen ×
General About		
HID Touch Digitizer		
USB USB Touchscre		
4 Points Calibration	Draw Test	Advanced
	OK	Cancel Apply

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