



### Feature

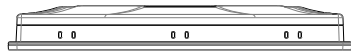
- 12.1" 1024 x 768 Wide Viewing Angle LCD, LED Backlight
- Fan-less Cooling System
- Built-in 4GB Flash Memory and RTC
- Micro SD Card Slot for Extension of Storage
- PCB coating process ensures high reliability to resist from corrosion in harsh environment.
- COM2 / COM3 RS-485 2W support MPI 187.5K, please use one at a time.
- Built-in Power Isolation
- NEMA4 / IP66 Compliant Front Panel

<b>Display</b>	Display	12.1" Wide Viewing Angle (WVA)
	Resolution	1024 x 768
	Brightness (cd/m <sup>2</sup> )	500
	Contrast Ratio	1000:1
	Backlight Type	LED
	Backlight Life Time	>30,000 hrs.
	Colors	16.7M
	LCD Viewing Angle (T/B/L/R)	89/89/89/89
	Pixel Pitch (mm)	0.240 (H) x 0.240 (V)
<b>Touch Panel</b>	Type	4-wire Resistive Type
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%
<b>Memory</b>	Flash	4 GB
	RAM	1 GB
<b>Processor</b>		Quad-core RISC
<b>I/O Port</b>	SD Card Slot	Micro SD x 1
	USB Host	USB 2.0 x 1
	USB Client	N/A
	Ethernet	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 Con.B: COM1 RS-232 4W, COM3 RS-232 2W*
	RS-485 Dual Isolation	Yes
	CAN Bus	N/A
	Audio Output	N/A
<b>RTC</b>		Built-in
<b>Power</b>	Input Power	24±20%VDC
	Power Isolation	Built-in
	Power Consumption	1.2A@24VDC
	Voltage Resistance	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ at 500VDC
<b>Specification</b>	PCB Coating	Yes
	Enclosure	Plastic
	Dimensions WxHxD	317 x 243 x 41 mm
	Panel Cutout	305 x 231 mm
	Weight	Approx. 1.7 kg
	Mount	Panel mount, VESA mount 75 x 75 mm
<b>Environment</b>	Protection Structure	NEMA4 / IP66 Compliant Front Panel
	Storage Temperature	-20° ~ 60°C (-4° ~ 140°F)
	Operating Temperature	0° ~ 55°C (32° ~ 131°F)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
<b>Certificate</b>	CE	CE marked
<b>Software</b>	EasyBuilder Pro	V6.08.01 or later versions
	Weincloud	EasyAccess 2.0 (Optional), Dashboard (Optional)
	CODESYS®	Optional

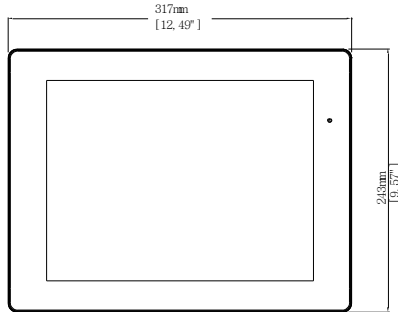
\* Only Tx & Rx (no RTS/CTS) may be used for COM1 RS-232 when COM3 RS-232 is also used.

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

## Dimensions



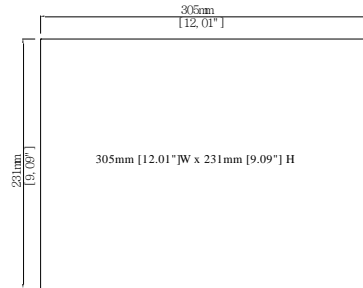
Top View



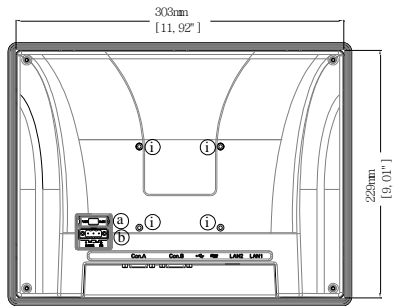
Front View



Side View



Cutout Dimensions



Rear View



Bottom View

<b>a.</b>	Fuse
<b>b.</b>	Power Connector
<b>c.</b>	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W
<b>d.</b>	Con.B: COM1 RS-232 4W, COM3 RS-232 2W
<b>e.</b>	USB Host Port
<b>f.</b>	Micro SD Card Slot
<b>g.</b>	LAN 2
<b>h.</b>	LAN 1
<b>i.</b>	VESA 75 mm Screw Holes

## Ordering Information

- cMT2128X:**  
12.1" 1024 x 768 WVA LCD HMI, Built-in 4GB flash memory / 1GB RAM on board
- Optional:
  - RP0081210:** 12.1" Screen Protective Film
  - RZACEA020:** EasyAccess 2.0 Activation Card
  - RZ0CDS000:** CODESYS activation card & license sticker

### Pin Assignment:

Con.B: COM1 / COM3 [RS232], 9 Pin, Male, D-sub

PIN#	COM1 [RS232] 4W	COM3 [RS232] 2W
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9	GND	

Con.A: COM2 / COM3 [RS485], 9 Pin, Female, D-sub

PIN#	COM2 [RS485] 2W	COM2 [RS485] 4W	COM3 [RS485] 2W
1	Data-	Rx-	
2	Data+	Rx+	
3		Tx-	
4		Tx+	
5	GND		
6			Data-
7			
8			
9			Data+