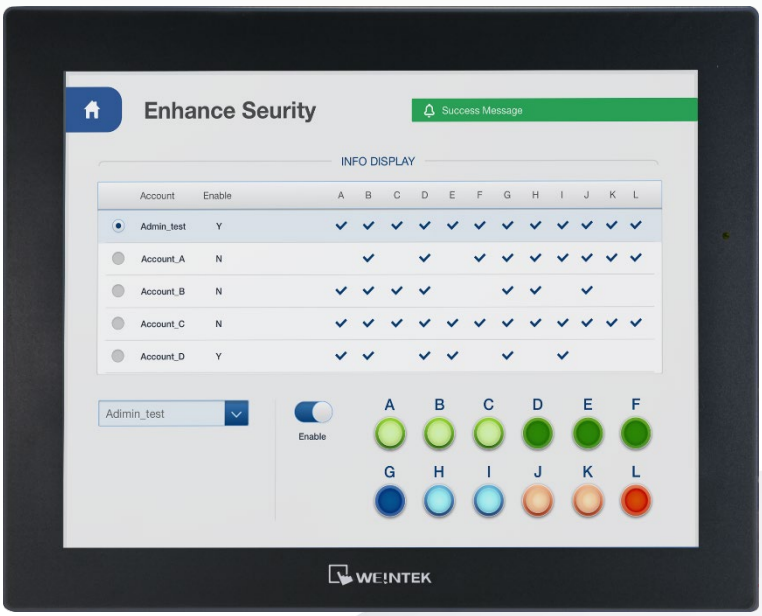
cMT2158X

15” WVA Standard HMI



IP66 NEMA4

Key Features

- 15" 1024 × 768 LCD
- Resistive touch panel
- COM port × 2, Ethernet port × 2, USB host port × 1, SD/SDHC slot × 1
- Built-in 4 GB FLASH and 1 GB RAM
- Fan-less cooling system

Technical Specifications

Display

Display	15” Wide Viewing Angle (WVA)
Resolution	1024 × 768
Brightness (cd/m^2)	350
Contrast Ratio	2500:1
Backlight Life Time	> 70,000 hrs.
Colors	16.2 M
LCD Viewing Angle (T/B/L/R)	88/88/88/88
Pixel Pitch (mm)	0.297 (H) × 0.297 (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

CPU	Quad-core RISC

I/O Port

Memory Card Type	SD × 1
USB Host	USB 2.0 × 1
Ethernet	LAN 1: 10/100/1000 Base-T × 1 LAN 2: 10/100 Base-T × 1
COM Port	Con.A: COM1 RS-485 2W/4W, COM3 RS-485 2W Con.B: COM1 RS-232 4W, COM3 RS-232 2W*
WiFi	N/A
RS-485 Dual Isolation	N/A
CAN Bus	N/A
Audio Output	Built-in Mono Speaker, Audio Line Out - 3.5 mm jack × 1

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

Power

Input Power	24 ± 20 % VDC
Power Isolation	Built-in
Power Consumption	1.3 A @ 24 VDC
Voltage Resistance	500 VAC (1 min.)
Isolation Resistance	Exceed 50 MΩ at 500 VDC

Mechanical

Enclosure	Aluminum
Dimensions W×H×D	366 × 293 × 48.2 mm
Panel Cutout	352 × 279 mm

Weight	Approx. 2.74 kg
Mount	Panel Mount, VESA Mount 75 × 75 mm

Environment

PCB Coating	Yes
Protection Structure	UL Type 4X (indoor use only) / 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)
Altitude	3,000 m
Vibration Endurance	10 to 25 Hz (X, Y, Z direction 2G 30 minutes)

Product Carbon Footprint (kg CO_2e)

Manufacturing Stage (A1-A3)	85

Certificate

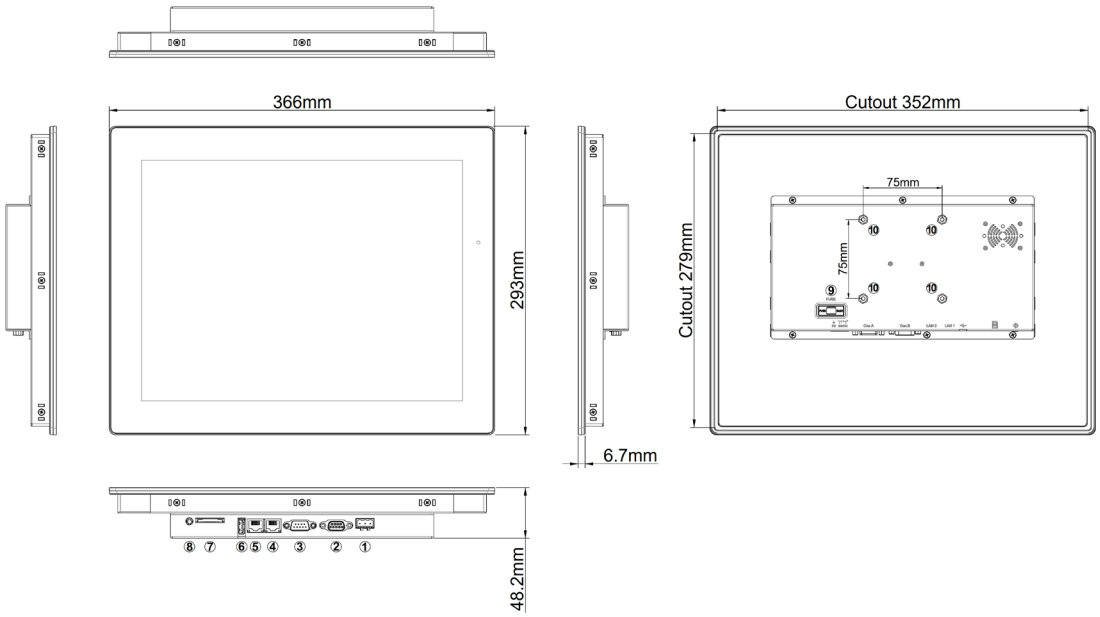
CE	CE Marked
UL	cULus Listed, Class I, Division 2

Software

EasyBuilder Pro	V6.05.02 or later versions*
Weincloud	EasyAccess 2.0 (Optional), Dashboard (Optional)
CODESYS®	Optional

* MPI is supported on units labeled as cMT2158X (V2).
* For units labeled as cMT2158X (V2), please select cMT2158X (V2) as the HMI model in EasyBuilder Pro (minimum software requirement: V6.08.01)
* CODESYS® is a trademark of CODESYS GmbH.

Dimensions



1	Power Connector
2	Con.A: COM1 RS-485 2W/4W, COM3 RS-485 2W
3	Con.B: COM1 RS-232 4W, COM3 RS-232 2W
4	LAN 2
5	LAN 1

6	USB Host
7	SD Card Slot
8	Line Out
9	Fuse
10	VESA 75 mm Screw Holes

Pin Assignment

Con.B: 9 Pin, D-sub, Male

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: 9 Pin, D-sub, Female

PIN#	COM1 [RS485]2W	COM1 [RS485]4W	COM3 [RS485]2W
1	Data-	Rx-	
2	Data+	Rx+	
3		Tx-	
4		Tx+	
5	GND		
6			Data-
7			
8			
9			Data+

Part Number

☐ 【cMT2158X】

15" 1024 × 768 WVA LCD HMI, Built-in 4 GB FLASH / 1 GB RAM

Optional:

☐ **RZACEA020:** EasyAccess 2.0 Activation Card

☐ **RZ0CDS000:** CODESYS License