cMT-FHDX-820

cMT X Headless





IP20

Key Features

- Supports external 16:9 / 4:3 LCD monitor output for HMI video and audio
- Supports high-definition video output up to 1920 × 1080 resolution
- Supports cross-platform HMI monitoring via cMT Viewer
- COM port × 3, Ethernet port × 2, USB host port × 1, microSD slot × 1
- Built-in 4 GB FLASH and 1 GB RAM
- Fan-less cooling system

Technical Specifications

Memory

FLASH	4 GB
RAM	1 GB

Processor

CPU	Quad-core RISC

I/O Port

Memory Card Type	microSD × 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	COM1: RS-232 2W COM2: RS-485 2W/4W COM3: RS-485 2W
HDMI™ Output	Customizable (max. resolution 1920 × 1080)
Recommended Resolutions	720 × 480 720 × 576 800 × 600 1024 × 768 1280 × 720 1920 × 1080
WiFi	N/A
RS-485 Dual Isolation	N/A
CAN Bus	N/A
Audio Output	HDMI™ audio output

* The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI trade dress and the HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.
* Please use these recommended screen resolutions to avoid compatibility issues.

Power

Input Power	24 ± 20 % VDC
Power Isolation	Built-in
Power Consumption	850 mA @ 24 VDC
Voltage Resistance	500 VAC (1 min.)
Isolation Resistance	Exceed 50 MΩ at 500 VDC

Mechanical

Enclosure	Plastic
Dimensions W×H×D	29.8 × 130 × 115 mm
Weight	Approx. 0.24 kg
Mount	35 mm DIN rail mounting

Environment

PCB Coating	Yes
Protection Structure	IP20

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)	18

Certificate

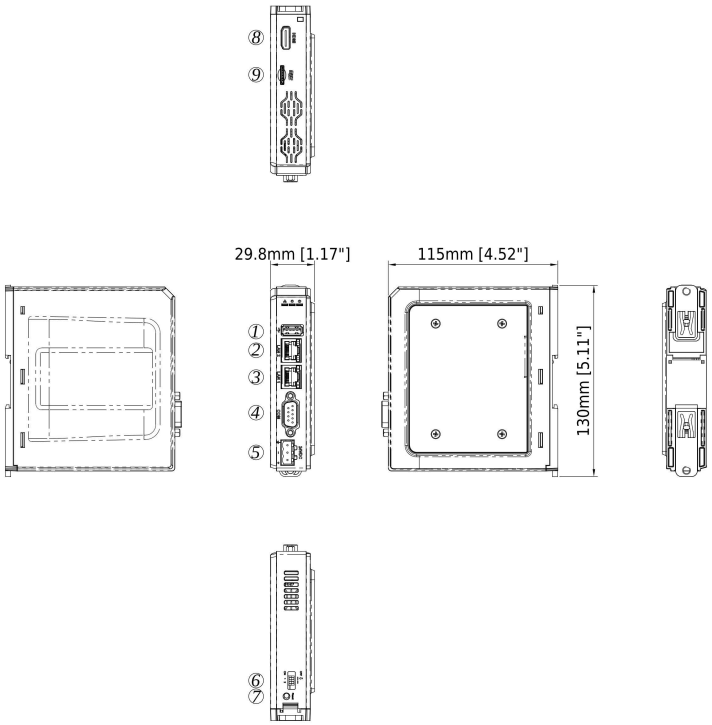
CE	CE Marked
UL	cULus Listed

Software

EasyBuilder Pro	V6.09.02 or later versions
Weincloud	EasyAccess 2.0 (Optional), Dashboard (Optional)
CODESYS®	Optional

* CODESYS® is a trademark of CODESYS GmbH.

Dimensions



1	USB Host	5	Power Connector
2	LAN 2	6	DIP Switch
3	LAN 1	7	Reset Button
4	COM1: RS-232 2W, COM2: RS-485 2W/4W, COM3: RS-485 2W	8	HDMI™ Port
		9	microSD Card Slot

Pin Assignment

COM: 9 Pin, D-sub, Male

PIN#	COM1 [RS232]2W	COM2 [RS485]2W	COM2 [RS485]4W	COM3 [RS485]2W
1				Data+
2	RxD			
3	TxD			
4				Data-
5	GND			
6		Data+	Rx+	
7		Data-	Rx-	
8			Tx+	
9			Tx-	

Part Number

☐ **【cMT-FHDX-820】**

Built-in 4 GB FLASH / 1 GB RAM, 10/100/1000 M Ethernet port × 1, 10/100 M Ethernet port × 1

Optional:

☐ **RZACEA020:** EasyAccess 2.0 Activation Card

☐ **RZ0CDS000:** CODESYS License