

## Frontless HMI cMT-FHDX-220



- High-definition HD 1080p <sup>HDMI™</sup> output
- Quad-Core Cortex-A17 CPU with High Performance 3D Processor
- Plays videos in high resolution, video decoding 1080p H.264, with audio
- Supports custom resolutions for 16:9 / 4:3 LCD monitors.
- Supports MPI connection (187.5K)
- 1 Gigabit Ethernet port
- Compact design and DIN rail mounting
- USB 2.0 host
- Integrated 4 GB flash memory and RTC real-time clock
- Integrated galvanic isolation of supply and system voltage

<https://www.wachendorff-prozesstechnik.de/en/cMT-FHDX-220>

### Description

The frontless HMI cMT-FHDX-220 from Weintek is a simple and cost-effective solution for visualizing process data on large-screen displays and industrial touch monitors. With its serial interfaces and integrated MPI interface, the TV machine interface is the ideal solution for easy-to-implement and brilliant visualizations on large screens. The highly visible display of process data or KPI values, for example, helps you to keep a better eye on your production. The cMT-FHDX-220 from Weintek fulfills all the criteria of a modern operating device, but the image output is provided via an HDMI interface. When using a touch-capable monitor, operation is also possible via this.

The very compact and fanless cMT-FHDX-220 is designed for a wide temperature range and will fit into any control cabinet.

The quad-core 32-bit RISC with a clock rate of 1.6 GHz is a high-performance dedicated 3D processor and ensures very high-performance data processing.

Thanks to the integrated battery-buffered real-time clock, secure data storage with a reliable time stamp is possible.

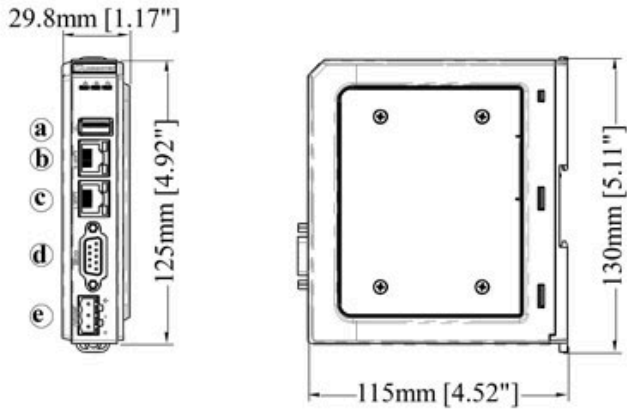
### Product details

Memory:	1 GB RAM 4 GB Flash
CPU and core logic:	Quad-Core 32-bit RISC 1.6GHz (High Performance dedicated 3D Processor) Linux based operating system
USB interface:	USB Host: 1x USB 2.0 USB client: No
Ethernet interface:	LAN1: 1x 10/100/1000 Base-T LAN2: 1x 10/100 Base-T
Serial interface:	1x COM1: RS232 1x COM2: RS485 2-/4-wire, 1x COM3: RS485 2-wire, All RS485 interfaces are individually programmable including an MPI connection (187,500 baud).
HDMI	Resolution: 1920 x 1080 (customizable)
Real-time clock:	Internal real-time clock (RTC) available, lithium battery buffered
Power supply:	24±20% VDC; 850 mA at 24 VDC. Connection via detachable 3-pin terminal strip.
Printed circuit board coating:	PCB
Housing:	Sturdy plastic housing
Dimensions (HxDxW):	130 mm x 115 mm x 29.8 mm
Weight:	0.24 kg

Project planning:	EasyBuilder Pro V6.04.02 (or newer version)
Assembly:	35 mm DIN rail
Protection class:	IP20
Ambient conditions:	Storage temperature: -20 °C to +60 °C Operating temperature: 0 °C to 50 °C Relative humidity: 10 % to 90 % (non-condensing)
Shock:	10 Hz to 25 Hz (X,Y, Z direction, 2G for 30 minutes)
Certificates:	CE cULus
Software:	EasyBuilderPro V6.04.02 or newer version EasyAccess 2.0 license optional CODESYS® (optional) OPC UA Server license (optional)
Manufacturer:	Weintek Labs, Inc

**Drawings**

**Dimensions & interfaces**



**Frontansicht**

**Seitenansicht**

**Schnittstellen**



**Draufsicht**



**Untersicht**

<b>a</b>	USB Host Port	<b>f</b>	HDMI Port
<b>b</b>	LAN 2	<b>g</b>	DIP Switch
<b>c</b>	LAN 1	<b>h</b>	Reset Button
<b>d</b>	COM1: RS-232, COM2: RS-485 2W/4W, COM3: RS-485 2W		
<b>e</b>	Power Connector		

**Pin Assignment:**

**COM1 [RS232], COM2 / COM3 [RS485], 9 Pin, Male, D-sub**

PIN#	COM1 [RS-232]	COM2 [RS-485]		COM3 [RS-485] 2W
		2W	4W	
1				Data+
2	RxD			
3	TxD			
4				Data-
5	GND			
6		Data+	Rx+	
7		Data-	Rx-	
8			Tx+	
9			Tx-	

Drawings

Step file



Step file as .rar

cMTFDHX.rar



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