



cMT-FHDX-820-CODESYS | High-Performance HMI Series

High-Performance Headless HMI with CODESYS











- Quad Core processor allows for the HMI project and PLC project to run on its own processor
- PLC logic programmed with CODESYS
- Enhanced Graphics, Animation, and Security
- High Speed Screen Updates
- Email Alarm Notification
- Recipe, Data Logging, Pie Charts
- Linear & Circular Trend Graphs
- HDMI® Port Provides Native 1080P Resolution

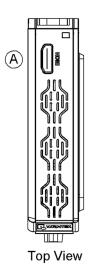


System	CPU	Quad Core RISC	
	Memory (RAM)	1 GB	
	Memory (Flash)	4 GB	
	RTC	Built-in	
I/O Ports	Serial	1 x DE9P COM1: RS-232, COM2: RS-485 2 or 4 wire, COM3: RS-485 2 wire	
	LAN	1 x 10/100 Base-T RJ-45, 1 x GbE RJ-45**	
	CANbus	N/A	
	USB Host	1 x USB 2.0	
	USB Client	N/A	
	Audio	HDMI® audio output	
	Video	N/A	
	Wi-Fi	N/A	
	HDMI®	1 HDMI® port, 1080P (1920 x 1080) native resolution, customizable*	
	SD Card Slot	N/A	
	Input Voltage	24 ± 20% VDC	
	Input Current	850mA @ 24 VDC	
Electrical	Input Power	20.4W	
	Power Isolation	Built-in	
	Isolation Resistance	Exceed 50 MΩ at 500 VDC	
Mechanical	Enclosure	Plastic, Charcoal Grey	
	PCB Coating	Yes	
	Dimensions (W x H x D)	1.17 x 5.12 x 4.53 inches [29.8 x 130 x 115 mm]	
	Net Weight	Approx. 0.53 lbs. [0.24 kg]	
	Mounting	35 mm DIN rail	
Environmental	Operating Temperature	32° ~ 122°F [-0° ~ 50°C]	
	Storage Temperature	-4° ~ 140°F [-20° ~ 60°C]	
	Relative Humidity	10% ~ 90% (non-condensing)	
	Altitude (Air Pressure)	Below 3,000 meters (70.1kPa)	
	Vibration Endurance	10 to 25 Hz (X, Y, Z direction, 2G, 30 minutes)	
	Rating	IP20	
	Certifications	cULus, CE, RoHS	
Software	EBPro (v6.07.02 or later), EasyAccess 2.0 (optional), IIoT Ready, MQTT, Sparkplug, VNC, cMT Viewer, WebView		
Notes	* Additional Custom Resolution Options: • 720 x 480 • 720 x 576 • 800 x 600 • 1024 x 768 • 1280 x 720 • 1366 x 768 **Activation of CODESYS will monopolize LAN 1 port for exclusive CODESYS use. This action is irreversible. CODESYS® IS A TRADEMARK OF CODESYS GmbH.		
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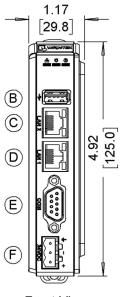


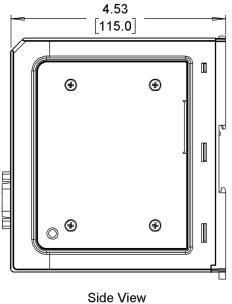


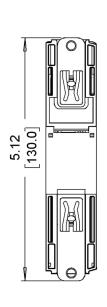


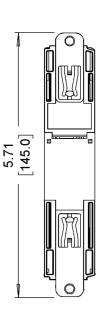


Dimensions are in inches [mm]









Front View

Rear View



Bottom View

- HDMI® Port
- В **USB Host Port**
- С **Ethernet Port**
- D Gigabit Ethernet Port – CODESYS USE
- Ε COM Port DE9P
- F **Power Connector**
- **DIP Switches**
- Reset Button



Headless HMIs | High Performance Series

Why Buy A Maple HMI

In addition to our powerful and affordable hardware, we'll also continue to support your company long after a sale. Wide product selection, large in-stock inventory, outstanding product warranty, free technical support and software, and in-house repairs with quick turnaround times, Maple Systems has your business covered.



Add Remote IO for PLC Functionality

Select Maple Advanced and High-Performance HMIs have a sleek hardware platform that runs both an HMI application created with our free HMI software and PLC logic programmed with CODESYS; each on its own dedicated processor. Unlike the typical multicore set up, where the operating system scheduler is responsible for allocating tasks to each processor, these HMIs have a hard separation between cores. One core is dedicated to the HMI application, the other to executing PLC logic of the CODESYS project. This ensures taxing graphics processing operations will not interfere with deterministic real time control tasks executing on the other processor.

After selecting your HMI, choose from a suite of easy to use powerful I/O modules to connect to your field equipment. We offer a complete set of I/O modules which can be combined with one of our communication couplers to create a remote I/O block.

Remote Access and the IIoT

Remote access is the ability to access an HMI or connected device, from another device, at any time, and from anywhere. With our free HMI software and supported hardware solutions, you have the freedom to access the HMI, and all its data and applications, from another device and control it as if you were standing in front of it. The enhanced features in our High-Performance HMIs support SQL Database Servers, Web Browser, OPC UA Server, and FTP, in addition to cMT Viewer, WebView, Web Streaming, and EasyAccess 2.0 and are designed to make accessing your HMI and data fast and streamlined.

Our High-Performance HMIs can act as an access point enabling operating equipment on the plant floor to connect to information technologies of the Industrial Internet of Things (IIoT). With our IIoT solutions, that are already included in the EBPro software, we can help you achieve better access to invaluable data and open a world of possibilities for your business. Read more about our IIoT solutions.

Create an Andon Station

The size of your HMI screen is no longer restricted – you can now display your real-time production data on a large, wall-mounted Status Display Station or Andon, easily visible from any plant floor location.

Our HDMI-enabled unit is a powerful HMI with no display that converts any compatible TV or monitor into an Andon or Status Display Station. All HMI data and screens are displayed on an HDMI®-compatible monitor. This model divides the traditional all-in-one HMI into two, distinct parts: A data-processing unit and a separate visual display. See our compatible Industrial Monitors.



Incredible Functionality Out of the Box

- Easily and quickly create the project with functional objects including numeric object, lamp object, combobutton, alarms, and recipes
- Pick and place objects, pictures, and shapes
- Import/export recipes
- · Create trend display, graphs, XY plots, and pie charts
- · Add passwords and security levels
- Assign communication (PLC) drivers easily and more with our Free HMI software

Additionally our HMIs support remote access solutions with VNC, MQTT, and OPC UA. For additional features see our Advanced HMI series.



User Friendly HMI Configuration Software

Because designing the layout of screens and user-interface (UI) of the HMI is typically where most of the development time is spent, we've made our Free HMI configuration software easy to use.

- Import tags feature
- Tools to diagnose and monitor PLC to HMI connection
- Debugging tools
- Pre-built libraries
- · Off-line and on-line simulation

These are just a few of the ways our software makes creating your project easier. We also have controller information sheets, cable drawings, sample projects, Getting Started Guides, and videos/tutorials available in our support center 24/7.



BALDOR Danfoss SIEMENS MITSUBISHI Parker TOSHIBA YASKAWA KOYO

Matsushita

Programmable Logic Controller (PLC) Connectivity

With over 300 PLC & Controller communication protocols, these HMIs will easily integrate with your preferred PLC brands, including:

Allen-Bradley
Siemens
Omron
Emerson
GE
Panasonic
Mitsubishi
...and many more

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