



cMT3072XHT-CODESYS | High-Performance HMI Series



- Quad Core processor allows for the HMI project and PLC project to run on its own processor
- PLC logic programmed with CODESYS
- High Resolution Wide Viewing Angle Display
- Aluminum Bezel provides IP66 Protection for Washdown Environments
- SQL Database, Database Server, OPC-UA Server

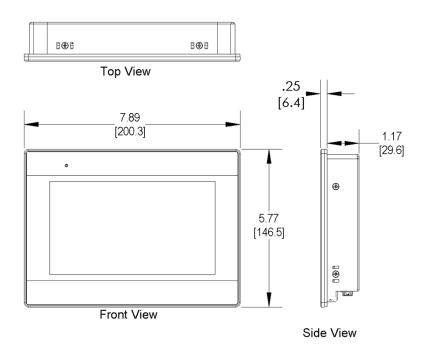
MQTT: SIL SOPC UA	Easy <u>Access</u> 20	*Modbus Sparkplug [™]	V 2	viewer web service	n 🔥	Azure	CODESYS
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	CPU	Quad-Core RISC			
	Memory (RAM)	1 GB			
System	Memory (Flash)	4 GB			
	RTC	Built-in			
		1 x DE9P COM1: RS-232, COM3: RS-232*			
	Serial	1 x DE9S COM2: RS-485 2 or 4 wire, COM3: RS-485 2 wire, CANbus			
	LAN	2 x 10/100 Base-T RJ-45**			
	CANbus	Yes			
	USB Host	1 x USB 2.0			
I/O Ports	USB Client	N/A			
	Audio	N/A			
	Video	N/A			
	Wi-Fi	N/A			
	HDMI®	N/A			
	SD Card Slot	N/A			
	Display Type	7" WVA LCD			
	Size (W x H)	6.02 x 3.39 inches [153 x 86 mm]			
	Max. Resolution	1024 x 600			
Bir di	Max. Color	16.7 M			
Display	Luminance (cd/m²)	450			
	View Angle (H°/V°)	170/170			
	Contrast Ratio	800:1			
	Backlight Lifetime (Hours)	30.000+			
	Туре	4-wire resistive touch			
Touch Screen	Active Area Accuracy	Length (X) ±2%, width (Y) ±2%			
	Input Voltage	24 ± 20% VDC			
	Input Current	820mA @ 24 VDC			
Electrical	Input Power	19.7 W			
	Power Isolation	Built-in			
	Isolation Resistance	Exceed 50 MΩ at 500 VDC			
	Enclosure	Aluminum, charcoal grey			
	PCB Coating	Yes			
Mechanical	Dimensions (W x H x D)	7.89 x 5.77 x 1.42 inches [200.3 x 146.5 x 36 mm]			
	Net Weight	Approx. 1.76 lbs. [0.8 kg]			
	Mounting	Panel mounting			
	Operating Temperature	-4° ~ 131°F [-20° ~ 55°C]			
	Storage Temperature	-4° ~ 140°F [-20° ~ 60°C]			
Environmental	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	UL Type 4X (indoor use only) NEMA 4, IP66 compliant front panel			
	Certifications	cULus (Class I Div 2 rated), CE, RoHS			
Software	EBPro (v6.07.01 or later), EasyAccess 2.0 (optional), IIoT Ready, MQTT, Sparkplug B, VNC, CMTViewer, WebView, SQL				
Notes	*Only Tx and Rx may be used for COM1 RS-232 while COM3 RS-232 is in use. **Activation of CODESYS will monopolize LAN 1 port for exclusive CODESYS use. This action is irreversible.				
	CODESYS® is a trademark of 0 Specifications subject to change				

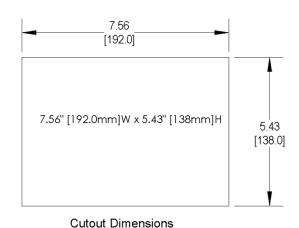


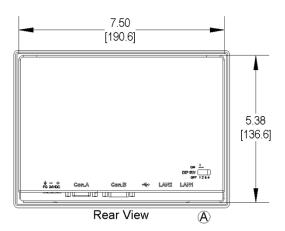


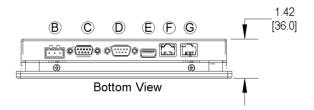
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Dimensions are in inches [mm]







- A DIP Switches
- **B** Power Connector
- C COM Port DE9S
- D COM Port DE9P
- E USB 2.0 Host Port
- F Ethernet Port
- G Ethernet Port CODESYS Use



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.

Build your SCADA

We offer all the components you need to create your own unique level of supervisory data acquisition and control, from the simplest stand-alone machine to sophisticated multi-device networked production line(s), all the way to enterprise-level operations and lloT functionalities leveraging cloud connectivity.

Our products can help you standardize communications between devices, gluing different systems together for one source to your SCADA. No need to redesign your entire application. Keep the components that are already working for you, just add Maple Systems components to grow your abilities to supervise, control, and acquire data.

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 High-Performance 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.





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

Panel Mount HMI Feature Overview						
With few exceptions, all our Standard HMIs support (this covers all the HMI prefix models, ex: HMI5043L/LB, HMI5070L/LB):	With few exceptions, all our Advanced HMIs support (this covers all the cMT2xxx series):	With few exceptions, all our High Performance HMIs support (this covers all the cMT3xxx series HMIs):				
Alarm & Event Messages	Alarm & Event Messages	Alarm & Event Messages				
Animation - Flow Block	Animation - Flow Block	Animation - Flow Block				
ASCII Characters	ASCII Characters	ASCII Characters				
Bar Graphs	Bar Graphs	Bar Graphs				
Combo Button	Combo Button	Combo Button				
Data Logging and Sampling	Data Logging and Sampling	Data Logging and Sampling				
Date / Time	Date / Time	Date / Time				
Dynamic Drawing	Dynamic Drawing	Dynamic Drawing				
Dynamic Scale	Dynamic Scale	Dynamic Scale				
EasyAccess 2.0	EasyAccess 2.0	EasyAccess 2.0				
EasyWatch	EasyWatch	EasyWatch				
Enhanced Security Mode	Enhanced Security Mode	Enhanced Security Mode				
Event Alarm Log	Event Alarm Log	Event Alarm Log				
File Browser	File Browser	File Browser				
Grid Display	Grid Display	Grid Display				
Languages (Up to 24)	Languages (Up to 24)	Languages (Up to 24)				
Libraries	Libraries	Libraries				
Macros	Macros	Macros				
Meters & Gauges	Meters & Gauges	Meters & Gauges				
C .	Ŭ	Meters & Gauges Modbus				
Modbus Objects (Converse Levering Aligning Flin)	Modbus Objects (Crowning Levening Aligning Elip)	1 111				
Objects (Grouping, Layering, Aligning, Flip)	Objects (Grouping, Layering, Aligning, Flip)	Objects (Grouping, Layering, Aligning, Flip)				
Off-line / On-line Simulation	Off-line / On-line Simulation	Off-line / On-line Simulation				
OPC UA Client	OPC UA Client	OPC UA Client				
Operation Log	Operation Log	Operation Log				
Pass-Through Mode	Pass-Through Mode	Pass-Through Mode				
Picture Object	Picture Object	Picture Object				
Picture Viewer	Picture Viewer	Picture Viewer				
Pie Chart	Pie Chart	Pie Chart				
PLC Tag Embedded in Project	PLC Tag Embedded in Project	PLC Tag Embedded in Project				
Project Password	Project Password	Project Password				
Recipes	Recipes	Recipes				
Remote Access	Remote Access	Remote Access				
Scheduler	Scheduler	Scheduler				
Security Levels (Enhanced)	Security Levels (Enhanced)	Security Levels (Enhanced)				
System Setting Editor	System Setting Editor	System Setting Editor				
Table	Table	Table				
Text Object						
	Text Object	Text Object				
Timer Object	Timer Object	Timer Object				
Trend Display (Graphs)	Trend Display (Graphs)	Trend Display (Graphs)				
User-Defined Start-Up Screen	User-Defined Start-Up Screen	User-Defined Start-Up Screen				
Utility Manager	Utility Manager	Utility Manager				
VNC Server	VNC Server	VNC Server				
XY Plot	XY Plot	XY Plot				
Email (I)	Email	Email				
Macro Windows Open / Cycle / Close (I)	Macro Windows Open / Cycle / Close	Macro Windows Open / Cycle / Close				
MQTT (I)	MQTT	MQTT				
String Table (1)	String Table	String Table				
Time Synchronization (1)	Time Synchronization	Time Synchronization				
USB Tethering	USB Tethering	USB Tethering				
VNC Viewer (I)	VNC Viewer	VNC Viewer				
	IP Camera	IP Camera				
	USB Camera	USB Camera				
	Animation (Objects, Word Lamp, GIFs, Moving Shape)	Animation (Objects, Word Lamp, GIFs, Moving Shape)				
	BACnet	BACnet				
	CANbus	CANbus				
	cMT Diagnoser	cMT Diagnoser				
	cMT Viewer Support	cMT Viewer Support				
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	CODESYS (2)	CODESYS Madia Player				
	Media Player	Media Player				
	MQTT - Advanced JSON	MQTT - Advanced JSON				
	MQTT - AWS IoT, Sparkplug B, Azure IoT Hub	MQTT - AWS IoT, Sparkplug B, Azure IoT Hub				
	PDF Reader	PDF Reader				
	Web Streaming	Web Streaming				
	WebView	WebView				
		Barcode Scanner (Android Camera)				
		Database Server				
		File Transfer Protocol (FTP)				
		OPC UA Server				
		PLC Web Browser				
		SQL Database Server Integration				
		SE Database Server Integration				

This table is for illustration only and subject to change. Always check the software to see if a feature is supported in your specific hardware.

⁽I) Not supported in the B Series (HMI5040B, 5070B, 5100B)

⁽²⁾ Not supported on the cMT2166X