



cMT2078X | Advanced HMI Series











Notes

7.0" Touchscreen HMI with IIoT Features

- High Speed Screen Update **Dual Ethernet Ports**
- **Built-in Edge Gateway Function**
- **Enhanced Graphics & Security**
- **Email Alarm Notification and Recipe Functionality**
- PDF Reader

	**Modbus Sparkplug™ V2	webservices Azure Google Coud Parton	
System	CPU	Quad-Core 64-bit RISC, 1.5 GHz	
	Memory (RAM)	1 GB	
	Memory (Flash)	4 GB	
I/O Ports	RTC	Built-in	
	Serial	1 x DE9P COM1: RS-232, COM3: RS-232*	
	LAN	1 x DE9S COM2: RS-485 2 or 4 wire, COM3: RS-485 2 wires 2 x 10/100 Base-T RJ-45	
		2 X 10/100 Base-1 RJ-45 N/A	
	USB Host	1 x USB 2.0	
	USB HOST USB Client	N/A	
	Audio	N/A N/A	
	Video	N/A	
	Wi-Fi	N/A	
	HDMI®	N/A	
	SD Card Slot	N/A	
Display	Display Type	7" TFT LCD	
	Size (W x H)	6.02 x 3.39 inches [153 x 86 mm]	
	Max. Resolution	800 x 480	
	Max. Colors	16.7 M	
	Luminance (cd/m²)	400	
	View Angle (H°/V°)	160/140	
	Contrast Ratio	800:1	
	Backlight Lifetime (Hours)	30,000+	
Touch Screen	Туре	4-wire resistive touch	
	Active Area Accuracy	Length (X) ±2%, width (Y) ±2%	
Electrical	Input Voltage	24 ±20% VDC	
	Input Current	820mA @ 24 VDC	
	Input Power	19.7 W	
	Power Isolation	Built-in	
	Isolation Resistance	Exceed 50 MΩ at 500 VDC	
Mechanical	Enclosure	Plastic, Black	
	PCB Coating	Yes	
	Dimensions (W x H x D)	7.89 x 5.76 x 1.38 inches [200.3 x 146.3 x 35 mm]	
	Panel Cutout (W x H)	7.56 x 5.43 inches [192.0 x 138.0 mm]	
	Net Weight	Approx. 1.32 lbs. [0.6 kg]	
	Mounting	Panel mounting	
	Operating Temperature	32° ~ 131°F [0° ~ 55°C]	
Environmental	Storage Temperature	-4° ~ 140°F [-20° ~ 60°C]	
	Relative Humidity	10% ~ 90% (non-condensing)	
	Vibration Endurance	10 to 25 Hz (X, Y, Z direction, 2G, 30 minutes)	
	Rating Certifications	UL Type 4X (indoor use only), NEMA 4, IP66 compliant front panel cULus. CE. RoHS	

Specifications subject to change without notice

*Only Tx and Rx may be used for COM1 RS-232 while COM3 RS-232 is in use. MPI is not supported.



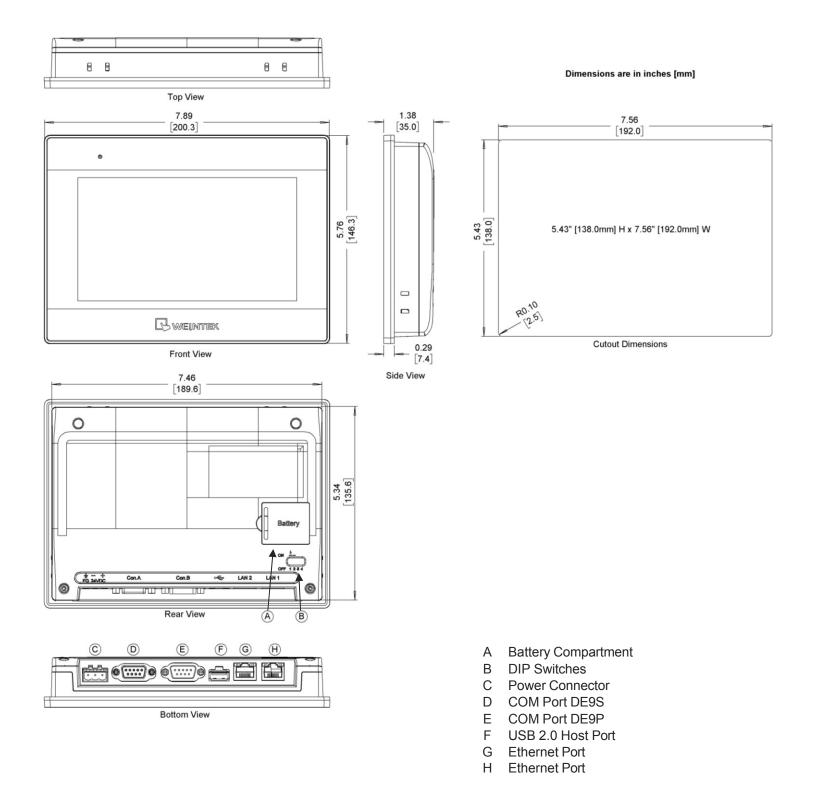


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Why Buy A Maple HMI

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. Our Advanced and High-Performance HMIs support cMT Viewer, WebView, Web Streaming, and EasyAccess 2.0 and are designed to make accessing your HMI and data fast and streamlined.



Let us serve as your guide, making it an easy process to join the next evolution of automated control. Our Advanced and 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 a already included in the EBP software, we can help you 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



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.

Maple Systems, Inc. | 808 134th St SW, suite 120, Everett, WA 98204 | 425.745.3229 | maplesystems.com

Incredible Functionality Out of the Box

- Easily and quickly create the project with functional objects including numeric object, lamp object, combo- button, 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 ConfigurationSoftware

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.



support center



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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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 2.1	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		1 2	
Languages (Up to 24)	Languages (Up to 24)	Languages (Up to 24)	
Libraries	Libraries	Libraries	
Macros	Macros	Macros	
Meters & Gauges	Meters & Gauges	Meters & Gauges	
Modbus	Modbus	Modbus	
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 (1)	Email	Email	
Macro Windows Open / Cycle / Close (1)	Macro Windows Open / Cycle / Close	Macro Windows Open / Cycle / Close	
MQTT (1)	MQTT	MQTT	
String Table (1)	String Table	String Table	
Time Synchronization (1)	Time Synchronization	Time Synchronization	
USB Tethering (1)	USB Tethering	USB Tethering	
VNC Viewer (1)	VNC Viewer	VNC Viewer	
	IP Camera	IP Camera	
	USB Camera	USB Camera	
	Animation (Objects, Word Lamp, GIFs, Moving	Animation (Objects, Word Lamp, GIFs, Moving	
	Shape)	Shape)	
	BACnet	BACnet	
	CANbus	CANbus	
	cMT Diagnoser	cMT Diagnoser	
	cMT Viewer Support	cMT Viewer Support	
	CODESYS (2)	CODESYS (2)	
	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,	
	Google Cloud IoT Core	Google Cloud IoT Core	
	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	
		1 20t Database Server Integration	

- (1) Not supported in the B Series
- (2) Not supported on the cMT2166X