cMT-SVRX-820 | Advanced HMI Series

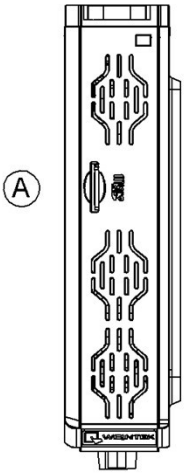


Advanced Headless HMI with IIoT Features

- Quad Core processor allows for the HMI project and PLC project to run on its own processor
- Enhanced Graphics, Animation, and Security
- Email Alarm Notification
- Recipe, Data Logging, Pie Charts
- Trend Graphics, Circular Trends
- Optional OPC-UA Support
- Fanless Cooling System with Heatsink

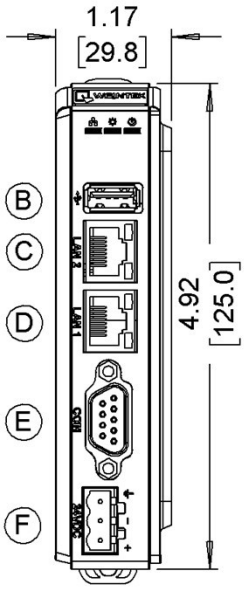
MQTT SQL OPC UA EasyAccess2.0 Modbus Sparkplug™ cMT Viewer amazon web services Azure CODESYS

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 GbE RJ-45; 1 x 10/100 Base-T RJ-45
	CANbus	N/A
	USB Host	1 x USB 2.0
	USB Client	N/A
	Audio	N/A
	Video	N/A
	Wi-Fi	N/A
	HDMI®	N/A
	SD Card Slot	1 x micro Secure Digital (SD/SDHC) Memory Card Socket, up to 32 GB
Electrical	**Input Voltage**	24 ± 20% VDC
	Input Current	850 mA @ 24 VDC
	Input Power	20.4 W
	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 5.11 x 4.52 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)
	Product Carbon Footprint (kg CO_2)	Manufacturing Stage (A1-A3): 18
	Rating	IP20
	Certifications	cULus, CE, RoHS
Software	EBPro (v6.07.01 or later), EasyAccess 2.0 (optional), CODESYS (optional), IIoT Ready, MQTT, Sparkplug, cMT Viewer, WebView	
Notes	CODESYS® is a trademark of CODESYS GmbH. Specifications subject to change without notice	

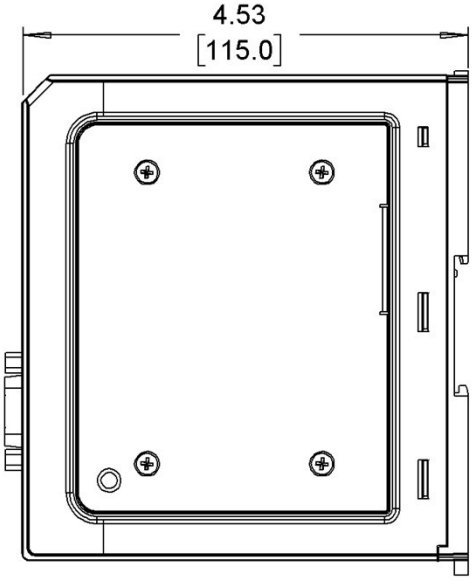


Top View

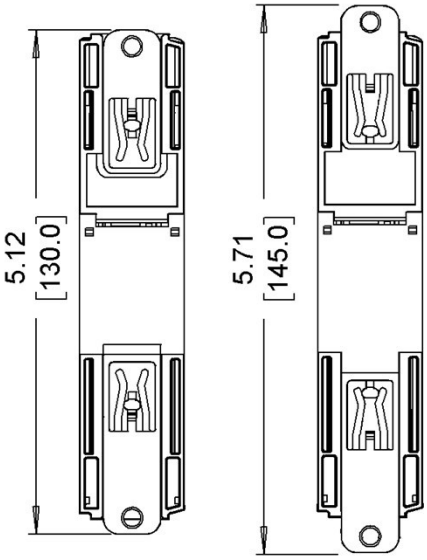
Dimensions are in inches [mm]



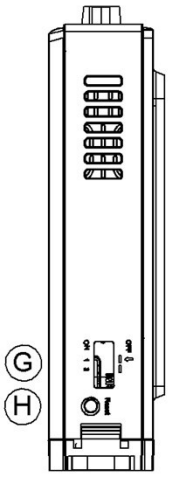
Front View



Side View



Rear View



Bottom View

A	Micro SD/SDHC Card Slot	E	COM Port DE9P
B	USB 2.0 Host Port	F	Power Connector
C	Ethernet Port	G	DIP Switches
D	Gigabit Ethernet Port	H	Reset Button

Headless Industrial HMI / cMTs

Engineers and Integrators Trust Maple Systems

Monitor PLC operations, gather data, and remotely access your control system on your Apple/Android smart phone, or your own tablet/laptop/PC. Our intuitive headless IIoT edge devices, free software, and dedicated support make industrial automation simple and powerful. Wide selection, fast delivery, strong warranty—we're your complete HMI partner.

Free HMI Configuration Software

No license or key needed

Our headless HMI/cMTs give you the flexibility to create and deploy custom control applications suited to your unique industrial process. Add passwords and security levels; assign communication (PLC) drivers easily; and more.



Allen-Bradley ABB babcock
BALDOR Danfoss SIEMENS
MITSUBISHI Parker
TOSHIBA YASKAWA Koyo
Matsushita

Connect to over 400 PLCs and Controllers

Maximize efficiency

With over +400 PLC & Controller communication protocols, our HMI/cMTs easily integrate with your preferred PLC brand including Allen-Bradley, Siemens, Omron, Emerson, GE, Maple Systems, Panasonic, Mitsubishi, and all the other major brands. With just a few clicks, creating a powerful edge gateway at a great price has never been easier. See the full list of supported controller manufacturers.

Build Your Control Panel

Maximize efficiency

Let Maple Systems serve as your main provider for optimizing control cabinets, offering industrial-grade hardware designed to maximize space and reduce heat. When building or upgrading an electrical enclosure, selecting components that communicate seamlessly is critical to avoiding component clutter and high integration costs. Maple Systems addresses these cabinet-level challenges directly through compact form factors, DIN-rail mountable solutions, and extensive protocol conversion capabilities

Improve Operational Efficiency

Streamlines local or remote data flow

With the ability to connect to many devices such as PLCs and other network devices, our headless HMIs provide an edge-gateway that allows control over small to medium systems. Additionally, our high-performance headless HMI include advanced features such as IIoT functionality (MQTT, SQL Databases, OPC UA, etc.), multi-tasking ability, capability to remote access the unit with a Virtual Network Computing (VNC) program, and more.

Maple Systems

Headless HMIs Feature Overview

Standard Headless HMI	Advanced Headless HMI	High-Performance Headless HMI
Alarm & Event Messages	Alarm & Event Messages	Alarm & Event Messages
Animation - Flow Block	Animation - Flow Block	Animation - Flow Block
ASCII Characters	ASCII Characters	ASCII Characters
BACnet	BACnet	BACnet
Bar Graphs	Bar Graphs	Bar Graphs
Barcode Scanner (Android Camera)	Barcode Scanner (Android Camera)	Barcode Scanner (Android Camera)
cMT Diagnoser	cMT Diagnoser	cMT Diagnoser
cMT Viewer Support	cMT Viewer Support	cMT Viewer Support
Combo Button	Combo Button	Combo Button
Data Logging and Sampling	Data Logging and Sampling	Data Logging and Sampling
Database Server	Database Server	Database Server
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
Email	Email	Email
Enhanced Security Mode	Enhanced Security Mode	Enhanced Security Mode
Event Alarm Log	Event Alarm Log	Event Alarm Log
File Transfer Protocol (FTP)	File Transfer Protocol (FTP)	File Transfer Protocol (FTP)
Grid Display	Grid Display	Grid Display
Languages (Up to 24)	Languages (Up to 24)	Languages (Up to 24)
Libraries	Libraries	Libraries
Macro Windows Open / Cycle / Close	Macro Windows Open / Cycle / Close	Macro Windows Open / Cycle / Close
Macros	Macros	Macros
Meters & Gauges	Meters & Gauges	Meters & Gauges
Modbus	Modbus	Modbus
MQTT	MQTT	MQTT
MQTT - Advanced JSON	MQTT - Advanced JSON	MQTT - Advanced JSON
MQTT - AWS IoT, Sparkplug B, Azure IoT Hub, Google Cloud IoT Core	MQTT - AWS IoT, Sparkplug B, Azure IoT Hub, Google Cloud IoT Core	MQTT - AWS IoT, Sparkplug B, Azure IoT Hub, Google Cloud IoT Core
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
OPC UA Server	OPC UA Server	OPC UA Server
Operation Log	Operation Log	Operation Log
Pass-Through Mode	Pass-Through Mode	Pass-Through Mode
Picture Object	Picture Object	Picture Object
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)
SQL Database Server Integration	SQL Database Server Integration	SQL Database Server Integration
String Table	String Table	String Table
System Setting Editor	System Setting Editor	System Setting Editor
Table	Table	Table
Text Object	Text Object	Text Object
Time Synchronization	Time Synchronization	Time Synchronization
Timer Object	Timer Object	Timer Object
Trend Display (Graphs)	Trend Display (Graphs)	Trend Display (Graphs)
USB Tethering	USB Tethering	USB Tethering
Utility Manager	Utility Manager	Utility Manager
XY Plot	XY Plot	XY Plot
	CODESYS	CODESYS
	WebView	WebView
		Create a Andon/Status Display
		VNC Viewer
		VNC Server
		User-Defined Start-Up Screen
		Picture Viewer
		File Browser
		IP Camera
		USB Camera
		Media Player
		PLC Web Browser
		PDF Reader
		Web Streaming

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.

Secondary Displays for Headless HMIs

Manage multiple HMIs simultaneously from a centralized location

cMT Displays offer a cost-effective way to extend your control network, adding quick access points, giving you greater control to your system allowing you fix problems, check alarms, modify HMI projects, from anywhere on the manufacturing floor. Add EasyAccess2.0 to your system for greater control from anywhere in the world. With the built in cMT Viewer app, you can simply plug into the network and quickly access any HMI on your manufacturing floor, no new project installs necessary.





IIoT Communication Gateways

Convert different brands of PLCs to Modbus / OPC UA / MQTT protocol standards

Designed to add new communications protocols to existing systems, our IIoT Communication Gateways will get your existing system talking to your management network in a low cost, low effort way. Unlike other gateway products with limited connectivity, our IIoT Gateway models offer the same vast selection of communications drivers available in all our HMI products and can communicate with hundreds of controller brands and then transmit that data to SCADA and ERP systems using the most popular IIoT protocol to get your existing systems, without ethernet functionality, talking to the rest of the world.

Panel Mount HMIs

Support for over 400 PLCs and Controllers

Maple Systems Human Machine Interface (HMI) touch screens make your industrial automation, data monitoring, networking systems, and other IIoT ready edge-devices easy to control with a user-friendly interface. Free HMI software and award-winning customer service are a couple more reasons for choosing an HMI panel that will give you the power and flexibility to streamline your processes.

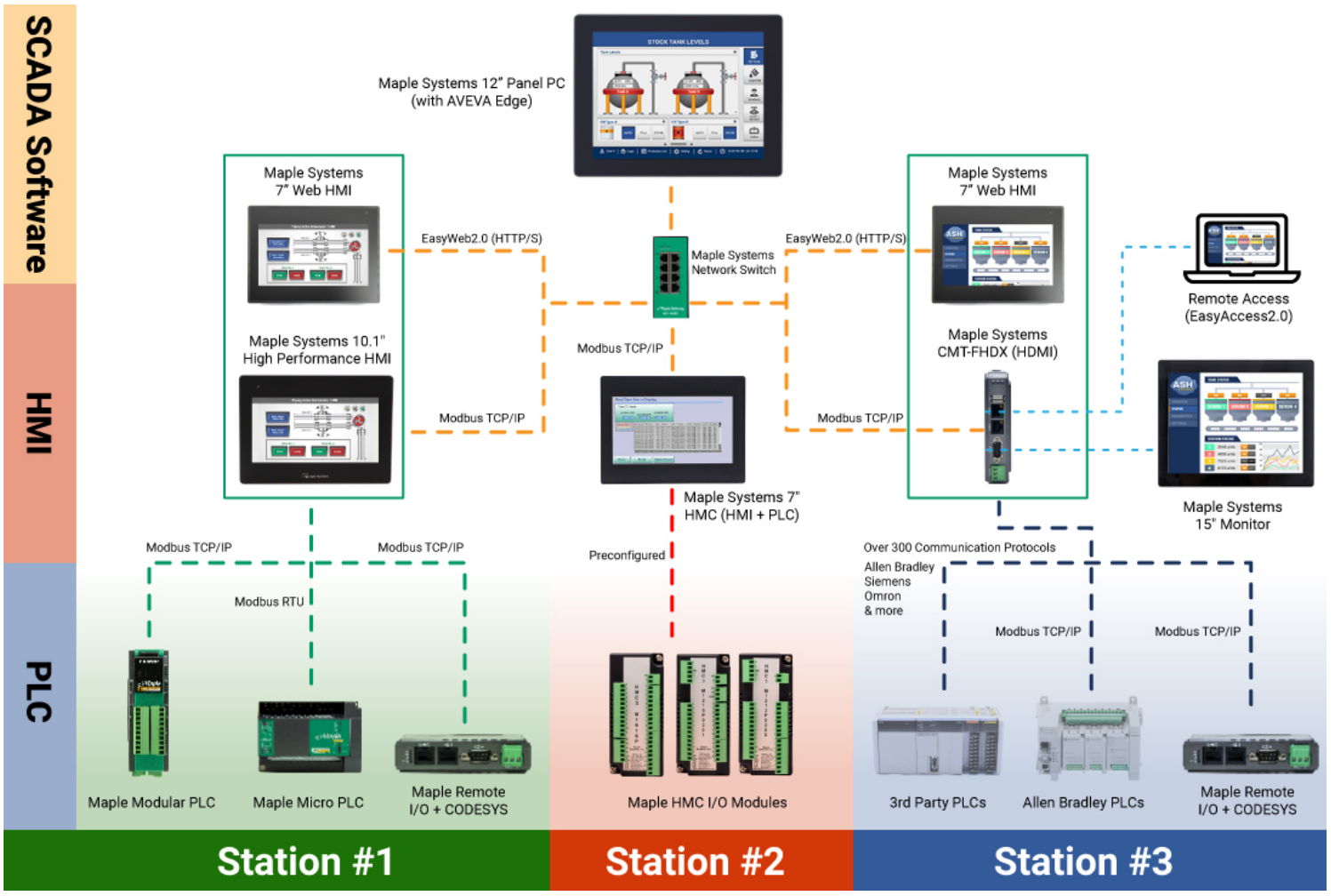


Standardizing SCADA Communications with Maple Systems Components

From simple stand-alone machines to sophisticated multi-device networked production lines, Maple Systems solutions empower your facility with enterprise-level operations and IIoT functionalities. Leveraging advanced cloud connectivity, Maple Systems hardware and software assist with:

- Logging data from your devices using Maple Systems, smart HMIs and gateways to aid in reporting, improve efficiency, and reduce downtime.
- Planning routine maintenance with ease by tracking system health metrics directly on Maple Systems HMIs and rugged Tablets.
- Adding advanced IIoT functionality via built-in support for MQTT, OPC UA, native Ignition server integration, and secure SQL databases like MySQL or Microsoft SQL Server.

The right Maple Systems products can help you standardize communications between legacy and modern devices, gluing disparate systems together to create a single, unified source for your SCADA ecosystem. There is no need to completely redesign your entire application. Keep the components that are already working for you, and simply add Maple Systems components to grow your abilities to supervise, control, and acquire data.



Headless Industrial HMI / cMTs

Industrial Automation and Control Solutions

Imagine a system that seamlessly integrates real-time monitoring, intelligent control, and invaluable data analytics that can boost productivity, efficiency, and overall performance. That's the transformative capabilities of Maple Systems products and US-based technical sales and support.



HMIs

IIoT Control for Smart Factories

Our HMIs have enhanced software features such as remote access, data handling, security, recipes, email, and more. IIoT support for MQTT, Sparkplug B, Ignition SQL, and OPC UA. Class 1, Div 2 options available.



Industrial PCs

Panel, Box, Rackmount, Media Player

Our Industrial PCs are full-strength, fan-less industrial computers with the power to support your SCADA software. Customize to meet your requirements: CPU, storage, memory, OS, and wifi upgrades available.



Industrial Monitors

High Brightness, Wide Temp Options

Pair a Capacitive Touchscreen Monitor with one of our Industrial Box PCs or HDMI-enabled HMI to expand your project's capabilities. High brightness (1000nit), Wide-Temp, and Class I Division 2 options available.



Network Switches

Industrial Grade Components

Our network switches provide a high level of immunity against EMI and EMS found in industrial environments; and include features such as ESD Protection, Surge Protection, and Short Circuit Protection to ensure continuous operation in unstable power conditions. Unmanaged and managed switches available.



Tower Stack Lights

Flash patterns and buzzer functions

Tower stack lights / Signal Towers provide high-visibility visual and audible signaling for clear machine status indication, safety alerts, and efficient industrial communication.



Power Supplies

DIN Rail Mountable

Maple Systems DIN rail power supplies convert AC line voltage into clean, regulated DC for the PLCs, HMIs, I/O, sensors, relays and valves in your control panel.

Knowledge Base

Guides, tutorials, and documentation

Technical guides and how-to articles for Maple Systems products. Resources and configuration guides including programming basics, setup, communication protocols, software deployment, networking, and so much more!



PLCs

Modular and Micro Series

Our PLCs provide an affordable combination of function and control in a cost-effective package. Programmed with our FREE control software, MapleLogic, that features high-speed counters, positioning control, input module filtering, PID control, and more, depending on the model.



HMI + PLCs

Combining HMI and PLC functionality

These HMCs are powerful HMIs with I/O and supports high-speed counters and timers, provides serial, Ethernet communications, and support IEC programming. Class I, Division 2. Remote access options available.



Rugged Tablets

Durability, Performance, and Mobility

Built for industrial environments and certified to MIL-STD-810H military standards, these tablets feature waterproof enclosures with Gorilla Glass displays that protect against dust, water, and extreme temperatures.



HTML5 Web HMI

Versatile and secure access to any web page

Web HMIs come standard with a built-in Chromium Browser, HTML5 Powered, IP66, Class I, Div 2 rating, ensuring intuitive interaction that enables users to access the same web content across many platforms.



Pushbuttons

Dependable control for electrical and automation systems

Choose momentary or maintained action with options for illuminated, selector, emergency stop, and toggle designs.



PID Controllers

Precise, reliable process control

The right PID controller helps maintain your target setpoint, minimize process variation, and keep your operation running smoothly. Our PID Controllers combine auto-tuning, fuzzy logic PID control for industrial process and temperature applications.

Schedule a call with one of our product specialists today

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