From the Experts in Operator Interface Systems

Graphic HMI Series

- Support for over 200 Devices
- Data Logging and Trending
- Expandable Storage
- Available Aluminum Enclosure
- Serial, Ethernet, & USB
- Audio & Video
- Quick and Easy to Program

Maple Systems INC.

Every Machine Needs the Human Touch

maplesystems.com

Maple Systems Graphic HMI: Overview

For the Best Value in HMIs

Maple Systems Graphic HMIs are next-generation operator interfaces, available in 4.3" to 15" display sizes, and designed to meet your most demanding automation needs. Rugged components, speedy processors, ample memory, and industrial-grade construction ensure optimal performance in the most rigorous automation environments. Maple Systems Graphic HMI models are UL, RoHS, and CE certified, and backed by our comprehensive two year warranty.

SD Card   USB   Barcode Reader   Smart Phone   PC

Internet

Router

Siemens MPI   Siemens S7-1200   CANopen   BACnet/IP   Printer
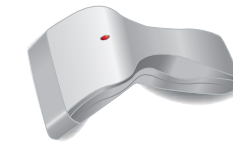
Key Features:

- Built-in responsive touchscreen
- High resolution graphics
- Wide viewing angles
- Long life LED backlight
- Fast refresh rates

- Connect to a wide variety of devices
- Intuitive easy-to-use software
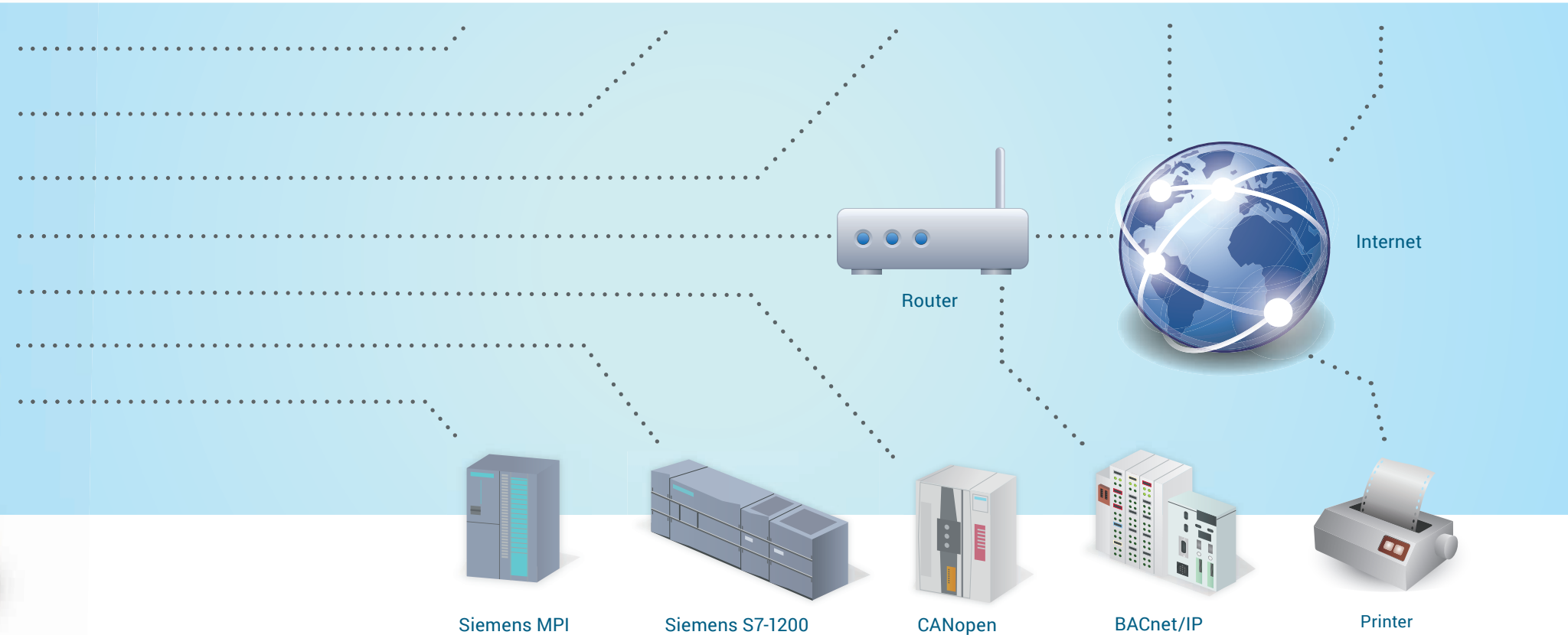- Serial, Ethernet and USB connectivity
- Remote Access
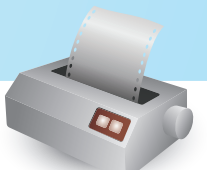
Supported Protocols Include:
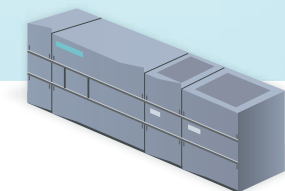
- Allen Bradley
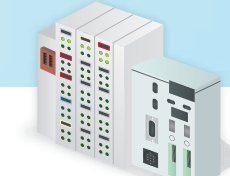- Modbus
- ModbusTCP
- BACnet

- GE
- Mitsubishi
- Omron
- Yaskawa

*All logos property of respective copyright holders

Cast-Aluminum Housing*

Select Graphic HMI models are encased in anti-corrosive aluminum enclosures for added strength and durability.

Up to 3 Serial Connections**

Enable connection to multiple PLCs using different drivers. RS-485 2/4W, and RS-232 supported.

SD Card Slot

Expand the internal storage capability of the Graphic HMI. Download and upload recipes, historical data and application files.

Available Ethernet*

High-speed Ethernet connectivity lets you quickly program your HMI and allows it to communicate with multiple devices for ultimate flexibility.

PCB Coating Protection

Protects critical circuitry against corrosion in high-humidity and corrosive air environments.

Audio Output*

The Analog Audio output jack allows connecting the HMI to speakers for audible warnings and alert notices.

USB Host and Slave Ports

Connect a wide variety of peripherals, download and upload configuration software, and even use a USB Security key for access control.

Next Generation Architecture

Powered by next-generation Cortex A8 or RISC chipsets, these Graphic HMIs set impressive benchmarks for boot speed, graphic file display speed and PLC data read/write. Whether you're interfacing with a single small PLC, or multiple PLCs and devices, the Graphic HMI is up to the challenge.

Isolated RS-485

Built-in isolation of the RS-485 port improves communication reliability.

Communicate with Multiple Devices

Maple Systems Graphic HMI family offers scalability to meet requirements of projects both large and small. With the speed and capability to communicate with multiple devices via Serial and Ethernet connections, what you control is only limited by your imagination.

Real-Time Video Monitoring*

Two video inputs are available on select HMI models. Now you can connect video cameras to provide visual feedback of the plant floor.

Video can be paused/resumed with on-screen buttons. Still images can be captured off of the live feed.

*Some features not available on all models.   **COM2 not supported on all models

High resolution display & touchscreen

- Available from 4.3" to 15"
- Up to 1024 x 768 pixel resolution for crisp text and graphics
- Displays over 16 million colors for rich graphic interfaces

- Bright, easy to read LED backlit TFT displays
- Durable, long-lasting and responsive 4-wire analog resistive touchscreen

VNC Remote Control & Monitoring

- VNC allows you to control or monitor your HMI wherever you have internet access
- Use your computer, tablet or smartphone
- Access critical information from remote locations

Over 100 PLC protocols supported

Maple Systems Graphic HMIs support the most popular PLCs in use. Whether through an Ethernet or serial connection - drivers for EtherNet/IP-DF1, Ethernet/IP-DIP, DF1 serial, and DH485 are readily available. Our EZware software can also import tags from an Allen-Bradley RSLogix™ project... and much more.

Designed for harsh environments*

- PCB coating protects internal circuitry from corrosion
- Available aluminum enclosure
- Screen protectors available for added durability
- IP65 / NEMA 4 compliant
- CE, UL and RoHS certified

Isolated RS-485

In industrial control environments, the built-in isolated RS-485 design can effectively avoid the ground potential difference, ensuring that your HMI functions safely in any complicated grounding environment. When connecting multiple devices (such as a PLC, Servo and Inverter) to the RS-485 port of the HMI, if not isolated, the ground voltage difference of these devices may damage the interface components.
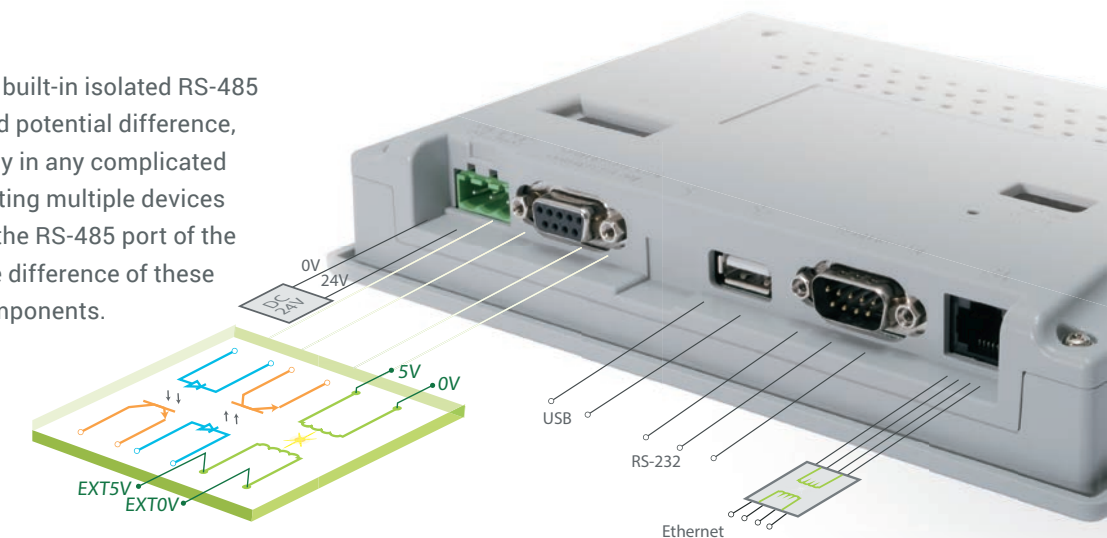
*Some features not available on all models.

Program your HMI quickly with EZware

Programming the Graphic HMI is a breeze! EZware is powerful, easy-to-use HMI configuration software that allows you to quickly create functional touchscreen applications for industrial processes, such as automation, process control, and OEM applications. Design attractive, easy-to-read interfaces using features such as animated screens, alarms, trends, scripting, recipes and reports, schedule tasks, and even video!
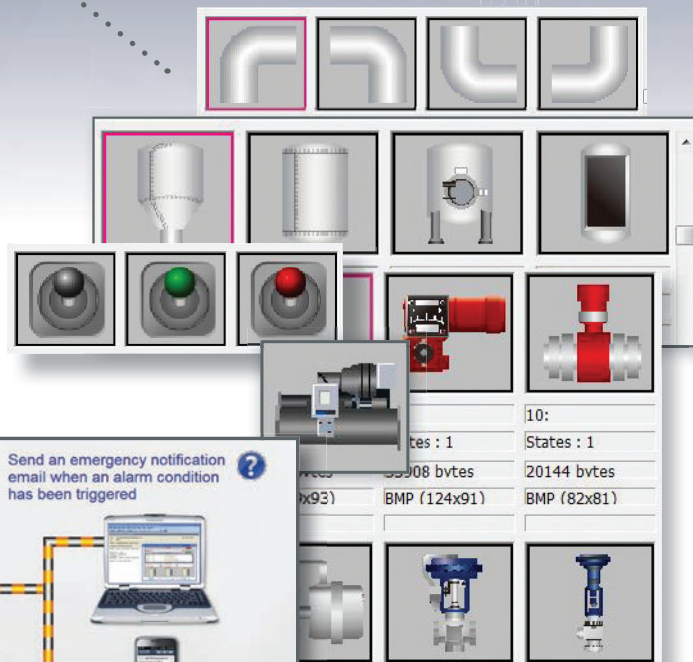
Drag, Drop & Automate in 4 Easy Steps!

- Select HMI and PLC drivers
- Pick and place objects
- Test and simulate
- Download to target HMI

Extensive Graphic Libraries

- Over 3000 industrial images & symbols
- Create custom graphics
- Employ animated effects
- Group related objects

Advanced Software Features

- Create advanced batch recipes
- E-mail alarm notification
- Create trends, meters, bar graphs
- Multi-language feature

Email

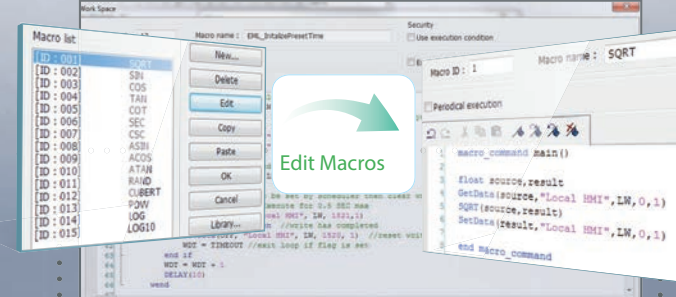Send an emergency notification email when an alarm condition has been triggered

Programming Tools

- Easily build and re-size entire projects
- Import/export PLC tags database
- Display and monitor watch values
- Diagnose communications errors

Powerful Macro Language

Edit Macros

- Combines elements of C and Basic
- Send ASCII string data
- Execute over 250 macros
- Trigger-based or by touchscreen
- Perform arithmetic, logical and string manipulations

Simulation and Pass-through Modes

- Test projects with or without PLC
- Program PLC without disconnecting HMI
- Test before downloading to HMI
- Download from remote location

EZware

COM

Ethernet

Pass-Through

COM

HMI

PLC
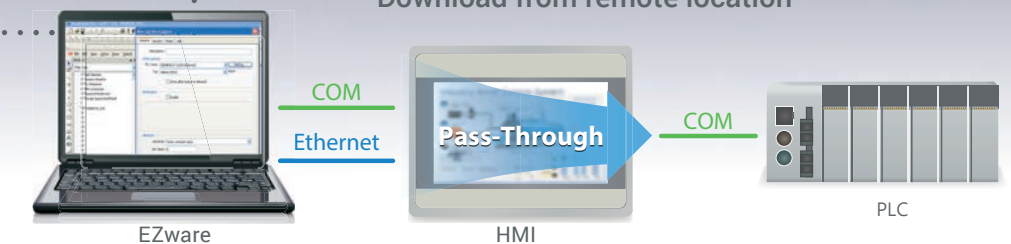
Enhanced Security

- Protect HMI with USB security key
- Add/delete accounts during runtime
- Restrict screen access
- Create over 125 user accounts
- Create security classes to control privileges to operate all objects and functions
- Prevent decompiling of your project by utilizing password protection

Design, program, upload and secure your application quickly & easily

Part Number	HMI5043L	HMI5070NL	HMI5070L	HMI5070P	HMI5100L
Display w/ Touchscreen	4.3" TFT	7.0" TFT	7.0" TFT	7.0" TFT	10.0" TFT
Resolution / Pixels	480 x 272	800 x 480	800 x 480	800 x 480	800 x 480
Max Colors	16 Million	16 Million	16 Million	16.7 Million	262,000
Brightness (cd/m^2)	500	350	350	500	300
Contrast Ratio	500:1	500:1	500:1	500:1	500:1
Microprocessor (32-bit RISC)	600MHz	600MHz	600MHz	600MHz	600MHz
Memory — Flash	128MB	128MB	128MB	256MB	128MB
Memory — DRAM	128MB	128MB	128MB	256MB	128MB
USB Ports — Host	Yes	Yes	Yes	Yes	Yes
USB Ports — Client	No	No	No	Yes	No
Ethernet	Yes	No	Yes	Yes	Yes
Serial Ports	2	2	2	2 + CANbus	2
SD Card Slot	No	No	No	Yes	No
Video	No	No	No	Yes - Via USB Camera	No
RTC	Yes				
Audio Jack	No	No	No	Yes	No
Operating Temperature	32 ~ 122°F (0~50°C)			-4 ~ 122°F (-20~50°C)	32 ~ 122°F (0~50°C)
Power Requirements	24VDC, 350mA	24VDC, 350mA	24VDC, 350mA	24VDC, 400mA	24VDC, 400mA
Dimensions (W x H x D inches)	5.04 x 4.02 x 1.26	7.89 x 5.76 x 1.34	7.89 x 5.76 x 1.34	7.89 x 5.76 x 1.67	10.67 x 8.38 x 1.57
Enclosure	Plastic	Plastic	Plastic	Aluminum	Plastic
Certifications	cULus CE RoHS	CE RoHS	cULus CE RoHS		cULus CE RoHS
Protection	IP65 (NEMA 4)				

	HMI5121XL	HMI5121P	HMI5150XL	HMI5150P
	12.1" TFT	12.1" TFT	15.0" TFT	15.0" TFT
	1024 x 768	1024 x 768	1024 x 768	1024 x 768
	16.2 Million	16.2 Million	16.2 Million	16.2 Million
	500	500	400	350
	700:1	700:1	700:1	700:1
	1GHz	800MHz	1GHz	800MHz
	256MB	256MB	256MB	256MB
	256MB	256MB	256MB	256MB
	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes
	2	2 + CANbus	2	2 + CANbus
	Yes	Yes	Yes	Yes
	No	Yes	No	Yes
	Yes			
	No	Yes	No	Yes
	32 ~ 122°F (0~50°C)			
	24VDC, 850mA	24VDC, 850mA	24VDC, 1A	24VDC, 1A
	12.49 x 9.61 x 1.82	12.49 x 9.61 x 1.82	14.41 x 11.54 x 2.24	14.41 x 11.54 x 2.24
	Aluminum	Aluminum	Aluminum	Aluminum
	cULus CE RoHS	cULus CE RoHS	cULus CE RoHS	cULus CE RoHS
	IP65 (NEMA 4)			

Three easy ways to buy Maple Systems HMIs:

1. **Visit maplesystems.com to find a distributor near you.**

2. **Make a purchase directly through our online store — shop.maplesystems.com**

3. **Call Us directly — 425.745.3229**

Every Machine Needs the Human Touch

For 30 years, Maple Systems has been a quality-driven leader in the industrial operator interface marketplace. Our primary emphasis is to provide operator interface solutions at an affordable price to the full range of industrial, OEM, and municipal applications. We have a network of distributors extending across the globe.

We place our full energy into creating and maintaining long term business relationships —
delivering outstanding support on all levels.

Maple Systems backs your Graphic HMI with unparalleled support.

- **Two year warranty**
- **Complementary technical support**
- **A wealth of technical information is available at MapleSystems.com:**
  - Detailed technical specifications
  - Installation guides
  - Online video tutorials
  - Data sheets & programming guides

Need Help? We're just a phone call or click away.

For immediate assistance with sales, support, and distribution please call us at 425.745.3229. Our professional sales engineers are ready to guide you every step of the way!

Learn About Our Other Products:

Panel PCs

Open HMIs

Graphic HMCs

Alphanumeric OITs

Speak with a Sales Engineer Today! Call 425.745.3229

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