Maple Systems INC.

MAPLE SYSTEMS
PRODUCT BROCHURE

Powerful Industrial Control Solutions

HMI • HMI + PLC • Panel PC • OIT • PLC

MAPLE SYSTEMS

POWERFUL INDUSTRIAL CONTROL SOLUTIONS

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ABOUT US

MAPLE SYSTEMS COMPANY PHILOSOPHY

Maple Systems Specializes in Operator Interface Solutions

We are committed to quality, reliability, and affordability. Our products deliver the quality you deserve, the reliability you demand, with a value that will drive your growth. Whether your customers are residential, commercial, or industrial; whether you create custom automation and integration solutions or manufacture products that require 21st century control, Maple Systems will add value and improve your user experience.

We Make Machine Control Easy

With modern touchscreens, unrivaled value and functionality, combined with intuitive software, Maple Systems provides a versatile offering of products to complement your machine's design:

- Touchscreen HMIs
- Open HMIs
- HMI + PLCs
- PLCs
- Light Industrial Panel PCs
- Heavy Industrial Panel PCs
- Text-Based Alphanumeric OITs

Our goal is to offer high-quality control solutions at affordable prices. We strive for continuous product improvement by being experts in our field, employing the latest technologies, and ensuring that every product is fully tested and inspected before leaving our facility. Paired with an outstanding support team and our comprehensive technical website, you'll see that Maple Systems truly is *your* industrial control solution.

Contact Us Today

We invite you to explore our product offerings and contact us to discuss how Maple Systems can help solve and support your automation and control needs:

Phone: 425.745.3229
Email: sales@maplesystems.com
Website: www.maplesystems.com

HMI OVERVIEW

HMI Solutions for Every Machine

Our HMIs offer the best value in today's HMI marketplace with benefits including modern touchscreens, intuitive software, and great functionality.

Basic HMI Series

The Basic HMI series offers a great solution for organizations focused on cost-driven and OEM-related projects. Basic HMIs offer the ability to display data in several formats: bar graphs, trend graphs, and analog meters and gauges. They display speed, pressure, and temperature in a visual format the operator quickly understands.

Advanced HMI Series

Our Advanced HMI series offers the best value in today's Human Machine Interface marketplace. Enjoy enhanced data handling features, trusted performance, affordable pricing, and unparalleled support. With features like Wi-Fi functionality, Dual-Ethernet, Remote Access, Aluminum Enclosures, and Class I Division 2, we have an HMI to meet your company's unique requirements.

IIoT READY

Maple Systems HMIs are used worldwide for diverse applications and are designed to meet your automation needs.

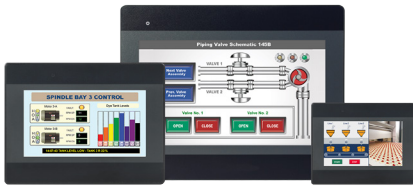
MAPLE SYSTEMS

BASIC HMI SERIES

Maple Systems Basic HMIs offer a great solution for organizations focused on cost-driven and OEM-related projects.

Basic HMIs are a great option for OEMs and end users looking for basic machine control that doesn't require UL or other enhanced software features offered by our Advanced HMIs.

With hardware features comparable to Maple's Advanced HMIs, the Basic HMI series is a cost-effective way for companies to upgrade their machines.



Basic Data Handling and Display

Basic HMIs offer the ability to display data in several formats. PLC register content can be displayed in numeric or ASCII format and can send data to the PLC using these formats. Bits in the PLC can be displayed as buttons or lamps. Colors can be chosen in the configuration software. The Basic HMI series can also display bar graphs, trend graphs, and analog meters and gauges. This allows for the display of speed, pressure, and temperature in a visual format the operator quickly understands.

	HMI5040B	HMI5070B	HMI5100B
Display			
Dimensions (W" × H" × D")	5.04" × 4.05" × 1.26"	7.88" × 5.79" × 1.34"	10.67" × 8.39" × 1.42"
Size	4.3"	7.0"	10.0"
Resolution	480 × 272	800 × 480	1024 × 600
Bezel Color	Black	Black	Black
Memory			
Flash	128MB	128MB	128MB
DRAM	128MB	128MB	128MB
CPU	600MHz	600MHz	600MHz
Ethernet Ports	1	1	1
Serial Ports	1	1	2
SD Card	No	No	No
USB	Host	Host	Host
Input Current	400mA @ 24VDC	500mA @ 24VDC	650mA @ 24VDC
Input Voltage	24 ± 20% VDC	10.5 ± 28% VDC	10.5 ± 28% VDC
Enclosure	Plastic	Plastic	Plastic
Operating Temperature	33° ~ 122° F	34° ~ 122° F	34° ~ 122° F
Storage Temperature	(-4°) ~ 140° F	(-4°) ~ 140° F	(-4°) ~ 140° F
Rating	IP65 Front Panel (NEMA4X Indoor Only)	IP65 Front Panel (NEMA4X Indoor Only)	IP65 Front Panel (NEMA4X Indoor Only)
UL Listing	No	No	No
CE	Yes	Yes	Yes
RoHS	Yes	Yes	Yes

Simple Security

Maple's HMI configuration software can secure project files to prevent unauthorized program changes. Basic security accounts can also be created within the program to prevent unauthorized access to password protected screens or objects.

Protocols

Maple's HMI configuration software possesses all of the communication drivers you need. Unlimited tags and multiple protocols are supported at no extra cost, with no fees for runtime licenses. Maple HMIs support almost 300 controllers, including:

- Allen-Bradley
- Siemens
- Mitsubishi
- Omron
- GE
- Emerson
- Modbus
- Koyo
- Yaskawa

MAPLE SYSTEMS

ADVANCED HMI SERIES

Our Advanced HMIs offer robust features, high-quality components, fast processors, and affordable pricing.

These high-functioning HMIs are perfect for any project or industry. Our Advanced HMIs are IIoT-Ready, making it easy to connect to factory equipment via the cloud.

Maple Systems Advanced HMI series offers the best value in today's HMI marketplace with benefits including modern touchscreens, intuitive software, and great functionality. Enjoy enhanced features, trusted performance, affordable pricing, and unparalleled support to meet your most demanding automation needs.

All Advanced HMIs are backed by our comprehensive technical support and a two year warranty.

Model Number	Display				Memory	CPU	Ethernet Ports	Serial Ports	CANbus	SD Card	USB
	Dimensions (W" × H" × D")	Size	Resolution	Bezel Color	Flash/DRAM						
HMI5043L	5.04 × 4.02 × 1.26	4.3"	480 × 272	Light Grey	128 MB/128 MB	600MHz	1	2	-	No	Host
HMI5043LB	5.04 × 4.02 × 1.26	4.3"	480 × 272	Dark Grey	128 MB/128 MB	600MHz	1	2	-	No	Host
HMI5070NL	7.89 × 5.76 × 1.34	7.0"	800 × 480	Light Grey	128 MB/128 MB	600MHz	1	3	-	No	Host
HMI5070L	7.89 × 5.76 × 1.34	7.0"	800 × 480	Light Grey	128 MB/128 MB	600MHz	1	2	-	No	Host
HMI5070LB	7.89 × 5.76 × 1.34	7.0"	800 × 480	Dark Grey	128 MB/128 MB	600MHz	1	2	-	No	Host
HMI5070DL	7.89 × 5.76 × 1.34	7.0"	800 × 480	Light Grey	128 MB/128 MB	600MHz	2	3	-	No	Host
HMI5071L	7.89 × 5.76 × 1.34	7.0"	800 × 480	Light Grey	128 MB/128 MB	600MHz	1	3	-	No	Host
HMI5070P	7.89 × 5.76 × 1.34	7.0"	800 × 480	Dark Grey	256 MB/256 MB	1GHz	1	2	Yes	Yes	Host/Client
HMI5097NXL	10.26 × 8 × 1.44	9.7"	1024 × 768	Dark Grey	512 MB/256 MB	1GHz	1	2	-	No	Host
HMI5097DXL	10.26 × 8 × 1.44	9.7"	1024 × 768	Dark Grey	512 MB/256 MB	1GHz	2	3	Yes	No	Host
HMI5102L	10.26 × 8 × 1.43	10.1"	1024 × 600	Light Grey	128 MB/128 MB	600MHz	1	2	-	No	Host
HMI5013L	10.26 × 8 × 1.43	10.1"	1024 × 600	Light Grey	128 MB/128 MB	600MHz	1	2	-	No	Host
HMI5100L	10.26 × 8 × 1.57	10.1"	800 × 480	Light Grey	128 MB/128 MB	600MHz	1	2	-	No	Host
HMI5121XL	12.48 × 9.61 × 1.81	12.1"	1024 × 768	Dark Grey	256 MB/256 MB	1GHz	1	2	-	Yes	Host/Client
HMI5121P	12.48 × 9.61 × 1.81	12.1"	1024 × 768	Dark Grey	256 MB/256 MB	800MHz	1	2	Yes	Yes	Host/Client
HMI5150XL	14.41 × 11.54 × 2.24	15.0"	1024 × 768	Dark Grey	256 MB/256 MB	1GHz	1	2	-	Yes	Host/Client
HMI5150P	14.41 × 11.54 × 2.24	15.0"	1024 × 768	Dark Grey	256 MB/256 MB	800MHz	1	2	Yes	Yes	Host/Client
RMI5001	5.12 × 4.53 × 1.06	-	-	Charcoal	256 MB/256 MB	600MHz	2	3	-	Yes	Host

MAPLE SYSTEMS

ADVANCED HMI SERIES

Advanced HMI Hardware Features:

- 4.3" to 15" models
- Easy-to-use configuration software
- Class I, Division 2 available
- Wi-Fi option available
- IP65/IP66/NEMA 4X, CE, and RoHS certified
- Aluminum enclosures available
- MQTT, IIoT, & EasyAccess 2.0
- Data logging, recipes, and advanced security
- Remote Access

Benefits of Advanced HMIs

Our Advanced HMIs take industrial automation and control to the next level by offering enhanced features. These units are used in many industries including packaging, food and beverage, medical, pharmaceutical, and more.

Input Current	Input Voltage	Enclosure	Operating Temp.	Storage Temp.	Rating	UL Listing	CE	RoHS	EasyAccess 2.0 Included	Wi-Fi
300mA @ 24VDC	24 ± 20% VDC	Plastic	32° ~ 122° F	(-4°) ~ 140° F	IP65 Front Panel (NEMA4X Indoor Only)	cULus	Yes	Yes	-	-
300mA @ 24VDC	24 ± 20% VDC	Plastic	33° ~ 122° F	(-4°) ~ 140° F	IP65 Front Panel (NEMA4X Indoor Only)	cULus	Yes	Yes	-	-
450mA @ 24VDC	24 ± 20% VDC	Plastic	32° ~ 122° F	(-4°) ~ 140° F	IP65 Front Panel (NEMA4X Indoor Only)	-	Yes	Yes	-	-
300mA @ 24VDC	24 ± 20% VDC	Plastic	32° ~ 122° F	(-4°) ~ 140° F	IP65 Front Panel (NEMA4X Indoor Only)	Class I, Division 2	Yes	Yes	-	-
300mA @ 24VDC	24 ± 20% VDC	Plastic	32° ~ 122° F	(-4°) ~ 140° F	IP65 Front Panel (NEMA4X Indoor Only)	Class I, Division 2	Yes	Yes	-	-
600mA @ 24VDC	24 ± 20% VDC	Plastic	32° ~ 122° F	(-4°) ~ 140° F	IP65 Front Panel (NEMA4X Indoor Only)	cULus	Yes	Yes	Yes	-
450mA @ 24VDC	24 ± 20% VDC	Plastic	32° ~ 122° F	(-4°) ~ 140° F	IP65 Front Panel (NEMA4X Indoor Only)	cULus	Yes	Yes	-	-
400mA @ 24VDC	24 ± 20% VDC	Aluminum	(-4°) ~ 122° F	(-4°) ~ 158° F	IP66 Front Panel (NEMA4X Indoor Only)	cULus	Yes	Yes	-	-
500mA @ 24VDC	24 ± 20% VDC	Plastic	32° ~ 122° F	(-4°) ~ 140° F	IP65 Front Panel (NEMA4X Indoor Only)	-	Yes	Yes	-	-
650mA @ 24VDC	24 ± 20% VDC	Plastic	32° ~ 122° F	(-4°) ~ 140° F	IP65 Front Panel (NEMA4X Indoor Only)	cULus	Yes	Yes	Yes	-
650mA @ 24VDC	24 ± 20% VDC	Plastic	32° ~ 122° F	(-4°) ~ 140° F	IP65 Front Panel (NEMA4X Indoor Only)	cULus	Yes	Yes	-	-
650mA @ 24VDC	24 ± 20% VDC	Plastic	32° ~ 122° F	(-4°) ~ 140° F	IP65 Front Panel (NEMA4X Indoor Only)	cULus	Yes	Yes	Yes	Yes
600mA @ 24VDC	24 ± 20% VDC	Plastic	32° ~ 122° F	(-4°) ~ 140° F	IP65 Front Panel (NEMA4X Indoor Only)	cULus	Yes	Yes	-	-
800mA @ 24VDC	24 ± 20% VDC	Aluminum	32° ~ 122° F	(-4°) ~ 140° F	IP66 Front Panel (NEMA4X Indoor Only)	cULus	Yes	Yes	-	-
850mA @ 24VDC	24 ± 20% VDC	Aluminum	32° ~ 122° F	(-4°) ~ 158° F	IP66 Front Panel (NEMA4X Indoor Only)	cULus	Yes	Yes	-	-
1000mA @ 24VDC	24 ± 20% VDC	Aluminum	32° ~ 122° F	(-4°) ~ 140° F	IP65 Front Panel (NEMA4X Indoor Only)	cULus	Yes	Yes	-	-
900mA @ 24VDC	24 ± 20% VDC	Aluminum	32° ~ 122° F	(-4°) ~ 158° F	IP65 Front Panel (NEMA4X Indoor Only)	cULus	Yes	Yes	-	-
230mA @ 24VDC	24 ± 20% VDC	Plastic	(-4°) ~ 122° F	(-4°) ~ 158° F	IP20	cULus	Yes	Yes	-	-

REMOTE ACCESS

VNC | Universal Support

Remotely monitor and control your HMI and connected PLC from anywhere in the world.

From an operator using a smartphone on the plant floor, to a corporate executive on the other side of the planet, Maple Systems products integrate perfectly with a wide variety of smartphones, tablets, and PCs, with apps for Apple, Android, and Windows operating systems. This makes it easier than ever to connect to operational equipment in the field. Achieve secure connections, increased monitoring mobility, and reduced downtime to increase your organization's bottom line.

VNC

Advanced and cMT Series HMIs come with a built-in VNC (Virtual Network Computing) server. VNC is a Remote Frame Buffer protocol used for remote operation and screen sharing. It enables you to instantly monitor and control a remote HMI as though you were standing in front of it. If enabled, any third party VNC viewer client (available for Apple, Android, Windows, and Linux devices) can log into a Maple HMI to see and control exactly what's shown on the HMI screen.

Configurable VNC options on Maple Systems HMIs include:

- Require a password or allow password-free access.
- Set a timeout to automatically log remote users out.
- Enable monitor mode (view only).
- Allow single or multiple connections.

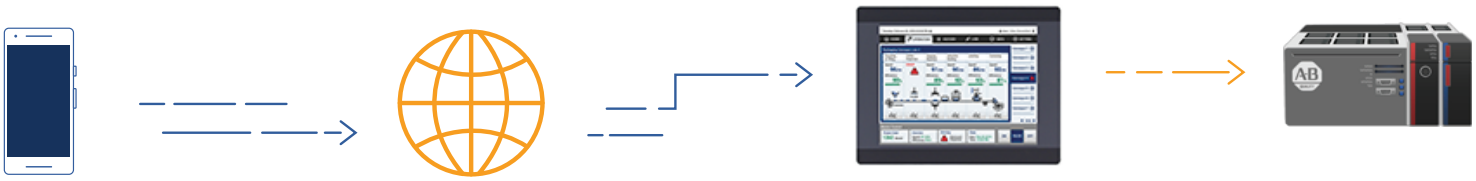
VNC is ideal for situations where the remote device is on the same local network and bandwidth is not limited. For situations where users need the ability to view different screens without affecting the local unit, or when access from outside the local network is desired without needing to configure your router ports, EasyAccess 2.0 may be a better solution.

Note: HMI IP address required for VNC access. VNC client applications for many different platforms are available online.

REMOTE ACCESS

IIoT READY

EasyAccess 2.0 | Secure HMI & PLC Access



EasyAccess 2.0

EasyAccess 2.0 allows you to instantly and securely communicate with your Maple Advanced or cMT HMI from anywhere in the world.

Accessibility from outside the plant provides the opportunity to troubleshoot or add new features to the HMI/PLC program by qualified personnel without ever leaving company headquarters. An administrator grants access to specific HMIs and groups, and traffic is encrypted and secured with VPN. Remote troubleshooting saves money by reducing downtime, travel, and personnel costs.

Security

EasyAccess 2.0 uses a VPN (Virtual Private Network) over the public Internet to securely transmit encrypted data to your internal network. Doing so ensures the same security and reliability you've come to expect when transmitting online banking data.

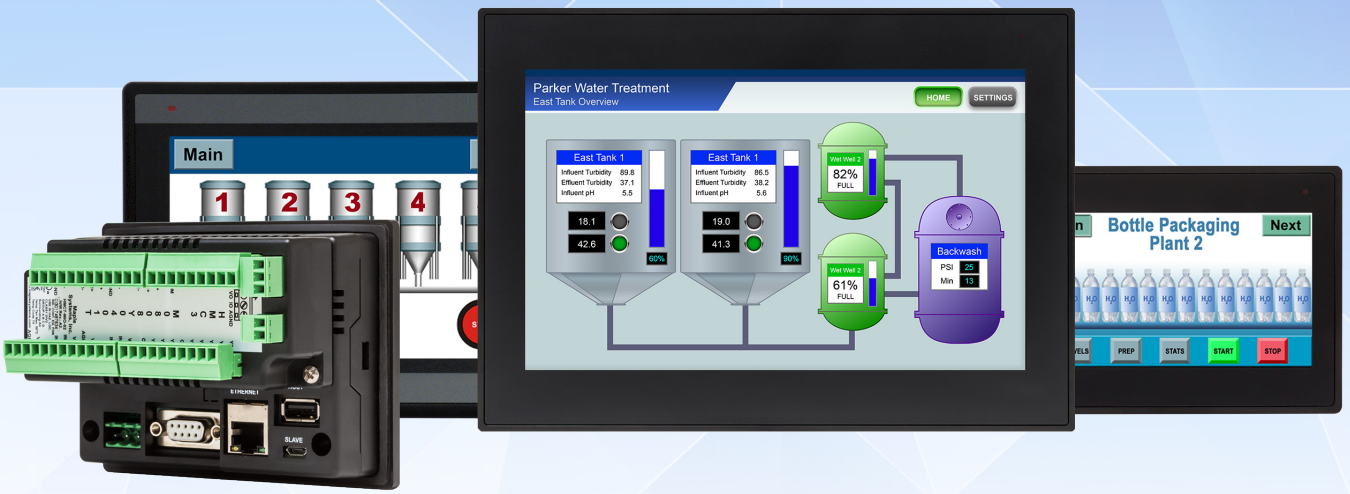
The HMI Manager is a project management tool enabling easy management of your EasyAccess 2.0 HMI fleet. HMI Manager allows the administrator to manage users, HMIs, locations, and notes, granting and restricting operator access to your entire HMI fleet.

Pass-Through Technology

Remote pass-through is made possible and simple with EasyAccess 2.0, giving you the ability to monitor and update a PLC connected to your remote HMI. Simply log into the remote HMI with EasyAccess 2.0, enable pass-through mode, and upload, download, or go online with your PLC project. During the pass-through process, communication between the HMI and PLC remains.

Note: EasyAccess 2.0 requires an activation card and comes pre-installed on some models.

HMI + PLC OVERVIEW



Maple Systems HMI + PLC line combines an HMI and PLC into one unit. Lower your costs while saving time and space.

Our HMC series of HMI + PLC units merge the functionality of a controller and an HMI into one unit. HMI + PLCs lower costs, save space, and feature options including touchscreen and function key models, serial and Ethernet, and numerous I/O configurations.

We offer two different HMI + PLC lines featuring over twenty different I/O modules to choose from, making these combination units a favorable option for many customers.

Sizing & I/O Modules

The HMC7000 series features two sizes: 4.3" and 7" touchscreen displays. Units can support up to five I/O modules with 15 fixed and expandable options to choose from.

Our HMC3000 series offers a slim design, support for a micro SD card and expandable I/O modules that provide both analog and digital I/O within the same module. The HMC3000 line offers three sizes: 4.3", 7", and 10" touchscreen displays.

HMI + PLC Features

- Support for Class I, Division 2
- Numerous I/O Configurations
- Serial & Ethernet Ports
- MAPware-7000 Software
- IEC Programming
- Native Ladder Logic
- Timers & High-Speed Counters
- Extensive Graphic Libraries
- ASCII
- Real-Time Monitoring
- Offline Simulation Testing
- Data Monitor Feature

HMI + PLC SERIES

CLASS I, DIVISION 2

		HMC7043A-M	HMC3043A-M	HMC7070A-M	HMC3070A-M	HMC3102A-M
DISPLAY	Display Size	4.3"	4.3"	7.0"	7.0"	10.2"
	Display	Resistive	Resistive	Resistive	Resistive	Resistive
	Touchscreen	Yes	Yes	Yes	Yes	Yes
	Resolution	480 × 272	480 × 272	800 × 480	800 × 480	800 × 480
	Brightness (cd/m2)	400	400	300	300	350
	Max Colors	32K	32K	32K	32K	32K
	Contrast Ratio	500:1	500:1	500:1	500:1	300:1
SYSTEM	Memory	128MB	128MB	128MB	128MB	128MB
	Application Memory	47MB	47MB	47MB	47MB	47MB
	Data Log Memory	20MB	20MB	20MB	20MB	20MB
	Program Capacity	160K Steps	320K Steps	160K Steps	320K Steps	320K Steps
	Processor Speed	400MHz	454MHz	400MHz	454MHz	454MHz
	PLC Ladder Memory	2MB	2MB	2MB	2MB	2MB
I/O PORTS	Ethernet	Yes	Yes	Yes	Yes	Yes
	Micro SD Card	No	Yes	No	Yes	Yes
	USB Host	Yes	Yes	Yes	Yes	Yes
	USB Client (Device)	Type B	Micro	Type B	Micro	Micro
	Serial Ports	2	2	2	2	2
I/O MODULES	I/O	Expandable	Expandable	Expandable	Expandable	Expandable
	I/O Slots	3	1	5	3	5
	Max I/O Points (Digital)	48	32	80	96	160
	Max Digital In	48	16	80	48	80
	Max Digital Out	48	16	80	48	80
	Max I/O Points (Analog)	24	5	40	15	25
	Max Analog In	24	4	40	12	20
	Max Analog Out	6	1	10	3	5
MECHANICAL/ENVIRONMENT	Dimensions (W"×H"×D")	5.04 × 4.02 × 1.77	4.72 × 3.50 × 1.26	7.68 × 5.59 × 1.97	7.32 × 5.43 × 1.22	10.55 × 7.48 × 1.3
	Panel Cutout	4.70" × 3.68"	4.37" × 3.14"	7.24" × 5.16"	6.88" × 5.00"	10.08" × 7.00"
	Enclosure	Plastic	Plastic	Plastic	Plastic	Plastic
	Ratings	IP66	IP66	IP66	IP66	IP66
	Mounting	Panel	Panel	Panel	Panel	Panel
	Certifications	CE, UL (Class I, Div 2), RoHS	CE, UL (Class I, Div 2), RoHS	CE, UL (Class I, Div 2), RoHS	CE, UL (Class I, Div 2), RoHS	CE, UL (Class I, Div 2), RoHS
	Power Requirements	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
	Operating Temp	32° to 122° F	32° to 122° F	32° to 122° F	32° to 122° F	32° to 122° F
SOFTWARE FEATURES	IEC Programming	Yes	Yes	Yes	Yes	Yes
	Native Ladder	Yes	Yes	Yes	Yes	Yes
	High-Speed Counters	25kHz	200kHz	25kHz	200kHz	200kHz
	PWM	10kHz	200kHz	10kHz	200kHz	200kHz
	Real Time Clock (RTC)	Yes	Yes	Yes	Yes	Yes
	Data Logging	Yes	Yes	Yes	Yes	Yes
	FTP	No	Yes	No	Yes	Yes

PLC Logic Editing Tools

Our HMI + PLCs offer the ability to choose from two logic editing modes: Native Ladder or IEC 61131-3.

Native Ladder Editing Mode

Native Ladder Editing Mode provides an intuitive ladder logic editor and an extensive set of instructions. Real-time monitoring and debugging tools help you to quickly find logical errors and complete your project in a timely manner.

IEC 61131-3 Editing Mode

Incorporates five logic editors and a familiar development environment for anyone familiar with the IEC 61131-3 standard.

Make logic reusable by creating User-Defined Function Blocks (UDFB). Use multiple instances of UDFBs throughout a project or export to another project. Online monitoring tools allow you to view the logic in action.

HMC3000 I/O MODULES

CLASS I, DIVISION 2

Which HMI + PLC is right for you?

Both Maple HMI + PLC lines are Class I, Division 2 rated, support high-speed counters and timers, provide serial and Ethernet communications, and let you choose either Native Ladder or IEC programming. Both series are programmed using Maple's MAPware-7000 software, which allows you to have web server functionality, data logging, recipes, graphs, alarms, trending, objects with multiple tasks, and more.

When deciding on which HMI + PLC series to choose, I/O and display size are the key differentiators and factors. Consider how many inputs (analog/digital) your program requires. Do you need separate analog and digital modules, or would a module with both analog and digital best meet your needs?

	HMC3-M1616P	HMC3-M1614Y	HMC3-M1212P0200	HMC3-M1212Y0200	HMC3-M1210P0201	HMC3-M1210Y0201	HMC3-M0808P0401T	HMC3-M0808Y0401T
Digital Inputs (Bidirectional)								
No. of Digital Inputs (Bidirectional)	16	16	12	12	12	12	8	8
No. of High Speed (200kHZ) Inputs	4	4	4	4	4	4	4	4
Single Phase Up Counter or Quad 4X Encoder Mode*	2	2	2	2	2	2	2	2
Digital Outputs								
No. of Digital Outputs	16 PNP	12 Relay, 2 PNP	12 PNP	10 Relay, 2 PNP	10 PNP	8 Relay, 2 PNP	8 PNP	6 Relay, 2 PNP
PWM Mode (up to 200kHz)**	2	2	2	2	2	2	2	2
Analog Inputs								
No. of Analog Inputs	N/A	N/A	2	2	2	2	4	4
Voltage Modes			0 to 10 V 0 to 5 V	0 to 10 V 0 to 5 V	0 to 10 V 0 to 5 V	0 to 10 V 0 to 5 V	0 to 10 V 0 to 5 V 0 to 100 mV 0 to 50 mV	0 to 10 V 0 to 5 V 0 to 100 mV 0 to 50 mV
Current Modes			0 to 20 mA 4 to 20 mA	0 to 20 mA 4 to 20 mA	0 to 20 mA 4 to 20 mA	0 to 20 mA 4 to 20 mA	0 to 20 mA 4 to 20 mA	0 to 20 mA 4 to 20 mA
RTD Modes							PT100 a1 PT100 a2 PT1000	PT100 a1 PT100 a2 PT1000
Thermocouple Modes							Type J, Type K	Type J, Type K
Analog Outputs								
No. of Analog Outputs	N/A	N/A	N/A	N/A	1	1	1	1
Voltage Modes					0 to 10 V 0 to 5 V	0 to 10 V 0 to 5 V	0 to 10 V 0 to 5 V	0 to 10 V 0 to 5 V
Current Modes					0 to 20 mA 4 to 20 mA	0 to 20 mA 4 to 20 mA	0 to 20 mA 4 to 20 mA	0 to 20 mA 4 to 20 mA

* Each Up Counter requires 2 high-speed (HS) inputs (one is used to determine up/down counting) so maximum of two channels available.
** Four options are available when using PWM mode: Normal, Fixed Pulse, CW-CCW, or Pulse-Dir.
If CW-CCW or Pulse-Dir is selected, only 1 PWM output can be used.

HMC7000 I/O MODULES

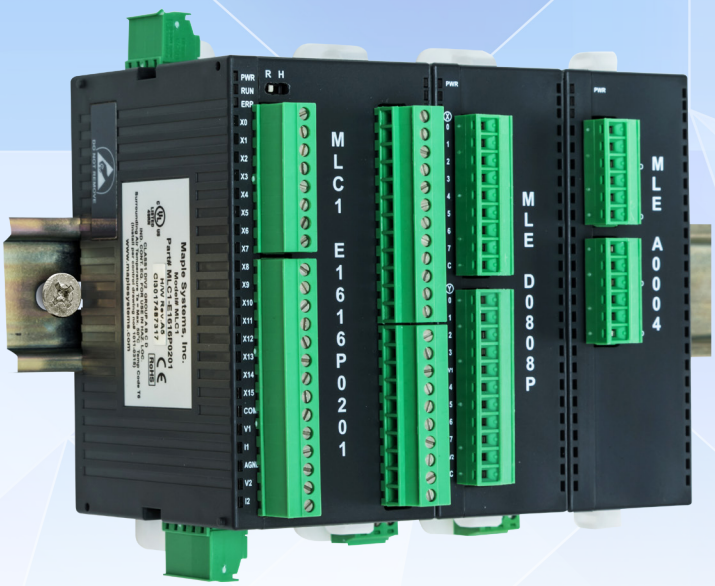
Questions to Consider

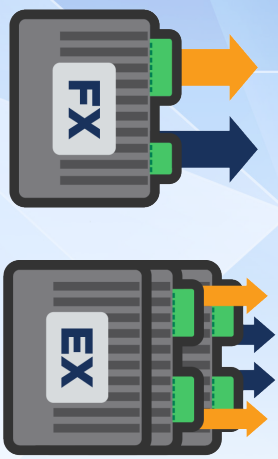
Once you decide on an I/O configuration and the required modules, you can then determine which screen size, or sizes, will support that configuration. How many modules does a particular model support? What about the speed of the high-speed counter? Do you need a micro SD card? These are important questions to consider when making your selection. Refer to the comparison tables for more information.

	HMC7-MI-01	HMC7-MI-02	HMC7-MI-03	HMC7-MI-04	HMC7-MIO-01	HMC7-MIO-02	HMC7-MIO-03	HMC7-MIO-04	HMC7-MIO-05	HMC7-MIO-06	HMC7-MIO-07	HMC7-MIO-08	HMC7-MO-01	HMC7-MO-02	HMC7-MO-03
Digital Inputs (Bidirectional)															
No. of Digital Inputs (Bidirectional)	16	N/A	N/A	N/A	8	8	N/A	8	8	8	8	N/A	N/A	N/A	N/A
No. of High Speed (25kHZ) Inputs	2				2	2		4	4	4	4				
Single Phase Up Counter or Quad 1X/4X Encoder Mode*	1				1	1		2	2	2	2				
Digital Outputs															
No. of Digital Outputs	N/A	N/A	N/A	N/A	8 NPN	8 PNP	N/A	8 NPN	8 PNP	6 Relay, 2 NPN	6 Relay, 2 PNP	N/A	12 Relay	16 NPN	16 PNP
PWM (10kHz) Mode**								2	2	2	2			1	1
Analog Inputs															
No. of Analog Inputs	N/A	4	8	8	N/A	N/A	2	N/A	N/A	N/A	N/A	4	N/A	N/A	N/A
Voltage Modes		0 to 10 V -10 to 10 V	0 to 10 V -10 to 10 V				0 to 10 V -10 to 10 V					0 to 10 V 1 to 5 V -10 to 10 V 0 to 100 mV 0 to 50 mV			
Current Modes		0 to 20 mA, 4 to 20 mA		0 to 20 mA, 4 to 20 mA			0 to 20 mA, 4 to 20 mA					0 to 20 mA, 4 to 20 mA			
RTD Modes												PT100 a1, PT100 a2 PT1000			
Thermocouple Modes												Type J, Type K			
Analog Outputs															
No. of Analog Outputs	N/A	N/A	N/A	N/A	N/A	N/A	2	N/A	N/A	N/A	N/A	2	N/A	N/A	N/A
Voltage Modes							0 to 10 V					0 to 10 V, 0 to 5 V			
Current Modes							0 to 20 mA, 4 to 20 mA					0 to 20 mA, 4 to 20 mA			

* Up Counters require 1 high-speed (HS) input each, so maximum of four available. Each Quad Encoder requires 2 HS inputs, so maximum of two available. If both Quad Encoders are used, the maximum input frequency is limited to 5kHz. If one Quad Encoder, the maximum input frequency is 20kHz.
** Four options are available when using PWM mode: Normal, Fixed Pulse, CW-CCW, or Pulse-Dir.
If CW-CCW or Pulse-Dir is selected, only 1 PWM output can be used.

PLC SERIES





Maple Systems Stand-Alone PLCs

Maple Systems offers a complete line-up of simple, low-cost Programmable Logic Controllers (PLCs) with built-in I/O. These stand-alone PLCs use MAPware-7000, the same configuration software used with Maple's HMI + PLC product lines. Now you can program your HMI and PLC using the same software – reducing the learning curve and making it easy to share data between the HMI and PLC.

These powerful units are fully functional PLCs with digital and analog I/O that support high-speed counters and PWM (pulse width modulation). Analog I/O options support several voltage and current modes as well as RTD (resistance temperature detection) and thermocouple sensors to measure temperature.

Use our easy-to-use configuration software to program your PLC in native ladder logic or any IEC 61131-3 programming language. These PLCs support communication with both our HMI + PLC and popular HMI lines via native Modbus RTU (serial), and Modbus TCP/IP (Ethernet models only). With support for major PLC manufacturers (Allen Bradley, GE Fanuc, Omron, Siemens, and more), you can easily add a Maple Systems PLC to your existing control system for additional I/O.

PLC Series Features

- Low cost
- Small package
- Wide selection of I/O modules
- Easy to program
- Supports native ladder logic or IEC 61131-3 programming
- Stand-alone PLCs with CPU and built-in I/O within a single unit
- Expandable PLCs with up to 16 modules; up to 288 I/O points
- DIN rail mountable
- 24VDC powered
- Uses the same software that programs Maple's HMI + PLC series
- RS232 and RS485 serial ports

PLC SERIES

CLASS I, DIVISION 2

Model Number	System		Comm Ports				Expandable I/O Modules	Built In I/O				Certifications
	CPU	Total Memory	Ethernet Port	USB 2.0	SD Card	Serial Port		Digital In	Digital Out	Analog In	Analog Out	
MLC1-F0604N	32-bit RISC, 120 MHz	292 kB	N/A	1 Client	N/A	1	N/A	6	5 NPN			CE, cULus, Class I, Div 2
MLC1-F0604P	32-bit RISC, 120 MHz	292 kB	N/A	1 Client	N/A	1	N/A	6	5 PNP			CE, cULus, Class I, Div 2
MLC1-F0808N	32-bit RISC, 120 MHz	292 kB	N/A	1 Client	N/A	2	N/A	8	8 NPN			CE, cULus, Class I, Div 2
MLC1-F0808P	32-bit RISC, 120 MHz	292 kB	N/A	1 Client	N/A	2	N/A	8	8 PNP			CE, cULus, Class I, Div 2
MLC1-F0808Y	32-bit RISC, 120 MHz	292 kB	N/A	1 Client	N/A	2	N/A	8	8 (2 PNP, 6 Relay)			CE, cULus, Class I, Div 2
MLC1-F0808N0201	32-bit RISC, 120 MHz	292 kB	N/A	1 Client	N/A	2	N/A	8	8 NPN	2 Voltage/ Current	1 Current	CE, cULus, Class I, Div 2
MLC1-F0808P0201	32-bit RISC, 120 MHz	292 kB	N/A	1 Client	N/A	2	N/A	8	8 PNP	2 Voltage/ Current	1 Current	CE, cULus, Class I, Div 2
MLC1-F0808Y0201	32-bit RISC, 120 MHz	292 kB	N/A	1 Client	N/A	2	N/A	8	8 (2 PNP, 6 Relay)	2 Voltage/ Current	1 Current	CE, cULus, Class I, Div 2
MLC1-F1616P0201	32-bit RISC, 120 MHz	270 kB	N/A	1 Client	N/A	2	N/A	16	16 PNP	2 Voltage/ Current	1 Voltage/ Current	CE, cULus, Class I, Div 2
MLC1-E1616P	32-bit RISC, 120 MHz	270 kB	N/A	1 Client	N/A	2	Up to 16	16	16 PNP			CE, cULus, Class I, Div 2
MLC1-E1616Y	32-bit RISC, 120 MHz	270 kB	N/A	1 Client	N/A	2	Up to 16	16	16 (14 Relay, 2 PNP)			CE, cULus, Class I, Div 2
MLC1-E0808Y0402T	32-bit RISC, 120 MHz	270 kB	N/A	1 Client	N/A	2	Up to 16	8	8 (6 Relay, 2 PNP)	4 Voltage/ Current/RTD/ Thermo	2 Voltage/ Current	CE, cULus, Class I, Div 2
MLC1-E1616N0201	32-bit RISC, 120 MHz	270 kB	N/A	1 Client	N/A	2	Up to 16	16	16 NPN	2 Voltage/ Current	1 Voltage/ Current	CE, cULus, Class I, Div 2
MLC1-E1616P0201	32-bit RISC, 120 MHz	270 kB	N/A	1 Client	N/A	2	Up to 16	16	16 PNP	2 Voltage/ Current	1 Voltage/ Current	CE, cULus, Class I, Div 2
MLC1-E1616Y0201	32-bit RISC, 120 MHz	270 kB	N/A	1 Client	N/A	2	Up to 16	16	16 (14 Relay, 2 PNP)	2 Voltage/ Current	1 Voltage/ Current	CE, cULus, Class I, Div 2
MLC2-E0404P0802T	32-bit RISC, 120 MHz	440 kB	1	1 Client	Yes	2	Up to 16	4	4 PNP	8 (4 Voltage/ Current/RTD/ Thermo/ Current)	2 Voltage/ Current	CE, cULus, Class I, Div 2
MLC3-E	32-bit RISC, 400 MHz	52 MB	1	2 (1 Client, 1 Host)	N/A	2	Up to 16	N/A	N/A	N/A	N/A	CE, cULus, Class I, Div 2

Plug-In I/O Modules

Expansion modules greatly extend the capabilities of expandable Maple PLCs. We offer twelve options: Nine digital and three analog, to ensure that you can customize your PLC to maximize functionality while minimizing unnecessary costs.

Digital Modules

Digital I/O modules support as many as sixteen inputs or outputs per module, or a combination of eight inputs/outputs. These modules support:

- Bidirectional (sink or source) inputs
- PNP (source), NPN (sink), or relay outputs
- High-speed counter input (up to 25kHz)
- Pulse Width Modulation output (up to 10kHz)

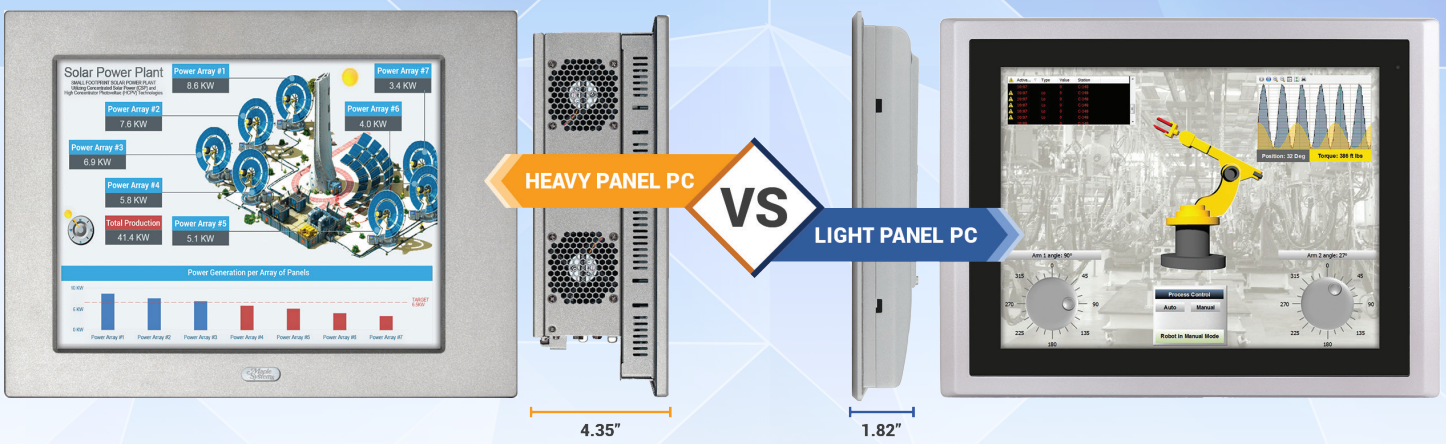
Analog Modules

Analog I/O modules support as many as eight analog inputs, four analog outputs, or a combination of analog I/O. These modules support:

- 0-10 V or 4-20 mA inputs or outputs
- 0-10 V, 0-5 V, 0-100 mV, or 0-50 mV inputs
- 4-20 mA or 0-20 mA outputs
- Support for RTD PT100 (Alpha 1 & Alpha 2) temperature inputs
- Support for Thermocouple (Types B, R, S, E, J, K, N, and T) temperature inputs

Model Number	Digital		Analog		Certifications
	Memory	Ethernet	Serial	USB	
MLE-D1600	16 Bidirectional				CE, cULus, Class I, Division 2
MLE-D0016N		16 NPN			CE, cULus, Class I, Division 2
MLE-D0016P		16 PNP			CE, cULus, Class I, Division 2
MLE-D0016R		16 Relay			CE, cULus, Class I, Division 2
MLE-D0808N	8 Bidirectional	8 NPN			CE, cULus, Class I, Division 2
MLE-D0808P	8 Bidirectional	8 PNP			CE, cULus, Class I, Division 2
MLE-D0808R	8 Bidirectional	8 Relay			CE, cULus, Class I, Division 2
MLE-D0808NH	8 Bidirectional, 4 HSC (25kHz)	8 NPN, 2 PWM (10kHz)			CE, cULus, Class I, Division 2
MLE-D0808PH	8 Bidirectional, 4 HSC (25kHz)	8 PNP, 2 PWM (10kHz)			CE, cULus, Class I, Division 2
MLE-A0800			8 Voltage/Current		CE, cULus, Class I, Division 2
MLE-A0004				4 Voltage/Current	CE, cULus, Class I, Division 2
MLE-A0402T			4 Voltage/Current/RTD/Thermo	2 Voltage/Current	CE, cULus, Class I, Division 2

INDUSTRIAL PANEL PC



Maple Systems Panel PCs offer a Windows OS and can be paired with the SCADA software of your choice.

Heavy Industrial Panel PCs

Maple Systems Heavy Industrial Panel PCs possess everything you need in an industrial computer and more. Offering versatility, affordability, and excellent connectivity options, our Panel PCs include a flat-panel design and mount securely to a panel or VESA 100 compatible mount.

Series Highlights:

- Intel® Pentium and Intel® Core i3, i5, and i7 options
- 500 GB shock-resistant hard drive
- Support for PCI or PCI-e riser cards
- Larger quantities of Ethernet, serial, and USB ports
- 16.7 million color TFT touchscreen display
- Microsoft Windows® 7 Pro or Windows® 10 IoT operating system on select models
- Industrial-strength metal enclosure
- Fanless models available

Light Industrial Panel PCs

Does your automation process require specific capabilities and customization? Maple Systems Light Industrial Panel PCs are the perfect solution for OEMs requiring a lower cost, high-quality Panel PC for custom applications. Connect an external keyboard, mouse, barcode reader, or speakers for audio output.

Series Highlights:

- 7", 10.1", 12.1", 15", 15.6", 17", 18.5", 21.5" models
- Fanless cooling
- High-resolution TFT LCD displays
- Intel® Atom or Intel® Celeron options
- 32GB, 64GB, 128GB, or 256GB solid state drive (SSD) options
- Base models include Microsoft Windows© Embedded Standard 7 (upgrade available)
- All units are UL-listed

SCADA-Ready

Our open-platform Industrial Panel PCs allow for easy integration with SCADA software, such as Indusoft's Web Studio. Or, use programming languages such as Visual Basic, Python, and C++ to create custom applications.

MAPLE SYSTEMS

HEAVY INDUSTRIAL PANEL PC

Made for Industrial Environments

Maple Systems Heavy Industrial Panel PCs exemplify cutting-edge touchscreen technology with high-quality components, impressive connectivity, fast processors, and clear, high-contrast TFT displays. Our Panel PCs are durable computers designed to operate in most industrial environments. Constructed with rugged aluminum bezel and steel enclosures, our Panel PCs are built to last and boast multiple certifications: CE, NEMA4X, RoHS, IP66, and IP65 (fanless version).

High Performance, Low Cost

Our Heavy Industrial Panel PCs are the perfect solution for organizations requiring high performance at a low cost for custom applications. State of the art architecture includes Intel processors, more memory, and both fan and fanless models to meet your requirements. Contact our sales team for available upgrades.

	PC2315A	PC415C	PC2317A	PC417C	PC2319A	PC419C
Display						
Dimensions (W" × H" × D")	16.06 × 12.13 × 5.05"	16.14 × 12.17 × 4.35"	17.64 × 13.86 × 5.34"	16.77 × 14.01 × 4.53"	18.54 × 15.59 × 5.13"	18.99 × 15.71 × 4.54"
Size	15.0"	15.0"	17.0"	17.0"	19.0"	19.0"
Resolution	1024 × 768	1024 × 768	1280 × 1024	1280 × 1024	1280 × 1024	1280 × 1024
Bezel Color	Black	Grey	Black	Grey	Black	Grey
Memory						
Flash	4GB	4GB	4GB	4GB	4GB	4GB
DRAM	4GB	4GB	4GB	4GB	4GB	4GB
Ethernet Ports	2	2	2	2	2	2
Serial Ports	4	5	4	5	4	5
SD Card	Yes	-	Yes	-	-	-
USB	4 x USB 3.0 Type A	4 x USB 2.0 Type A 2 x USB 3.0 Type A	4 x USB 3.0 Type A	4 x USB 2.0 Type A 2 x USB 3.0 Type A	4 x USB 3.0 Type A	4 x USB 2.0 Type A 2 x USB 3.0 Type A
Input Power	9 ~ 36 VDC	100 ~ 240 VAC	9 ~ 36 VDC	100 ~ 240 VAC	9 ~ 36 VDC	100 ~ 240 VAC
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Operating Temperature	32°~113° F	32°~113° F	32°~113° F	32°~113° F	32°~113° F	32°~113° F
Storage Temperature	(-4°) ~ 158° F	(-4°) ~ 158° F	(-4°) ~ 158° F	(-4°) ~ 158° F	(-4°) ~ 158° F	(-4°) ~ 158° F
Rating	IP65 Front Panel, NEMA4X	IP66 Front Panel, NEMA4X	IP65 Front Panel, NEMA4X	IP66 Front Panel, NEMA4X	IP65 Front Panel, NEMA4X	IP66 Front Panel, NEMA4X
UL Listing	-	-	-	-	-	-
CE	Yes	Yes	Yes	Yes	Yes	Yes
RoHS	Yes	Yes	Yes	Yes	Yes	Yes
Software	Windows Embedded 7 Pro (WIN 10 IoT Optional Upgrade)	Windows Embedded 7 Pro (WIN 10 IoT Optional Upgrade)	Windows Embedded 7 Pro (WIN 10 IoT Optional Upgrade)	Windows Embedded 7 Pro (WIN 10 IoT Optional Upgrade)	Windows Embedded 7 Pro (WIN 10 IoT Optional Upgrade)	Windows Embedded 7 Pro (WIN 10 IoT Optional Upgrade)

LIGHT INDUSTRIAL PANEL PC

Introduction to Light Industrial Panel PCs

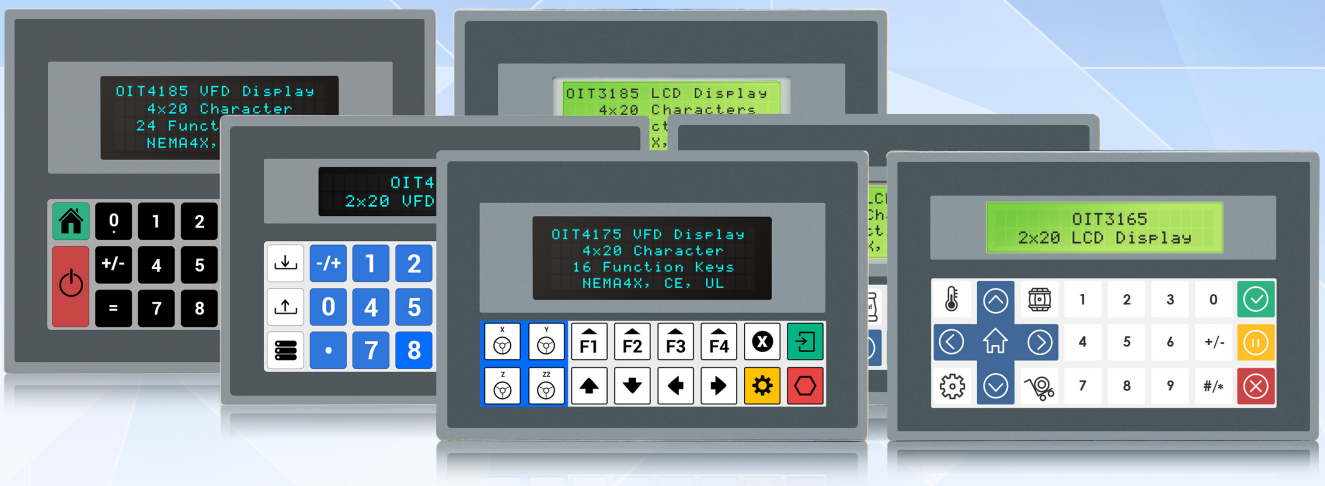
Maple Systems Light Industrial Panel PC series offers a Windows operating system with the flexibility of customized application programming. Choose from a variety of software application programs like InduSoft Web Studio to help you achieve complex process goals. Unlock the potential of your process with Maple Light Industrial Panel PCs.

High-Resolution Touchscreen

Our Light Industrial Panel PCs possess color TFTs with maximum resolution to display high-clarity screens. Four-wire analog resistive touchscreens have a touch accuracy of ±2% linearity and a lifespan of over one million activations under normal use. LED backlight provides a lifespan over 50,000 hours. Contact our sales team for available upgrades.

	OMI6707A	OMI6807A	OMI6710A	OMI6810A	OMI6712A	OMI6812A	OMI6715A	OMI6815A	OMI6816A	OMI6818A	OMI6821A
Display											
Dimensions (W" × H" × D")	7.95 × 5.87 × 1.54"	7.95 × 5.87 × 1.54"	11.22 × 7.44 × 1.54"	11.22 × 7.44 × 1.54"	12.56 × 9.65 × 2.03"	12.56 × 9.65 × 2.03"	16.14 × 12.20 × 2.15"	16.14 × 12.20 × 2.15"	16.23 × 10.93 × 2.37"	19.67 × 12.39 × 2.36"	21.93 × 14.25 × 2.55"
Size	7.0"	7.0"	10.1"	10.1"	12.1"	12.1"	15.0"	15.0"	15.6"	18.5"	21.5"
Resolution	800 × 480	800 × 480	1200 × 800	1200 × 800	800 × 600	800 × 600	1024 × 768	1024 × 768	1366 × 768	1366 × 768	1920 × 1080
Bezel Color	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver
Memory											
Flash	2GB	4GB	2GB	4GB	2GB	4GB	2GB	4GB	4GB	4GB	4GB
DRAM	2GB	4GB	2GB	4GB	2GB	4GB	2GB	4GB	4GB	4GB	4GB
Ethernet Ports	2	2	2	2	2	2	2	2	2	2	2
Serial Ports	2	2	2	2	2	2	2	2	2	2	2
SD Card	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
USB	2 x Host	2 x Host	2 x Host	2 x Host	2 x Host	2 x Host	2 x Host	2 x Host	2 x USB 3.0 Type A	2 x USB 3.0 Type A	2 x USB 3.0 Type A
Input Current	0.4 ~ 1.5 A	0.6 ~ 2.6 A	0.6 ~ 2.1 A	0.3 ~ 1.2 A	0.5 ~ 2 A	0.5 ~ 2.2 A	0.7 ~ 2.6 A	0.5 ~ 2 A	0.6 ~ 2.2 A	0.8 ~ 3.3 A	0.7 ~ 3.0 A
Input Voltage	9 ~ 36 VDC	9 ~ 36 VDC	9 ~ 36 VDC	9 ~ 36 VDC	9 ~ 36 VDC	9 ~ 36 VDC	9 ~ 36 VDC	9 ~ 36 VDC	9 ~ 36 VDC	9 ~ 36 VDC	9 ~ 36 VDC
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Operating Temperature	32° ~ 122° F	32° ~ 122° F	32° ~ 122° F	32° ~ 122° F	32° ~ 122° F	32° ~ 122° F	32° ~ 122° F	32° ~ 122° F	32° ~ 122° F	32° ~ 122° F	32° ~ 122° F
Storage Temperature	(-4°) ~ 140° F	(-4°) ~ 140° F	(-4°) ~ 140° F	(-4°) ~ 140° F	(-4°) ~ 140° F	(-4°) ~ 140° F	(-4°) ~ 140° F	(-4°) ~ 140° F	(-4°) ~ 140° F	(-4°) ~ 140° F	(-4°) ~ 140° F
Rating	IP65 Front Panel, NEMA4X	IP65 Front Panel, NEMA4X	IP65 Front Panel, NEMA4X	IP65 Front Panel, NEMA4X	IP65 Front Panel, NEMA4X	IP65 Front Panel, NEMA4X	IP65 Front Panel, NEMA4X	IP65 Front Panel, NEMA4X	IP65 Front Panel, NEMA4X	IP65 Front Panel, NEMA4X	IP65 Front Panel, NEMA4X
UL Listing	cULus	cULus	cULus	cULus	cULus	cULus	cULus	cULus	cULus	cULus	cULus
CE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RoHS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Software	Windows Embedded 7 Standard (Win 7 Pro or Win 10 IoT Optional Upgrade)	Windows Embedded 7 Standard (Win 7 Pro or Win 10 IoT Optional Upgrade)	Windows Embedded 7 Standard (Win 7 Pro or Win 10 IoT Optional Upgrade)	Windows Embedded 7 Standard (Win 7 Pro or Win 10 IoT Optional Upgrade)	Windows Embedded 7 Standard (Win 7 Pro or Win 10 IoT Optional Upgrade)	Windows Embedded 7 Standard (Win 7 Pro or Win 10 IoT Optional Upgrade)	Windows Embedded 7 Standard (Win 7 Pro or Win 10 IoT Optional Upgrade)	Windows Embedded 7 Standard (Win 7 Pro or Win 10 IoT Optional Upgrade)	Windows Embedded 7 Standard (Win 7 Pro or Win 10 IoT Optional Upgrade)	Windows Embedded 7 Standard (Win 7 Pro or Win 10 IoT Optional Upgrade)	Windows Embedded 7 Standard (Win 7 Pro or Win 10 IoT Optional Upgrade)

OIT SERIES



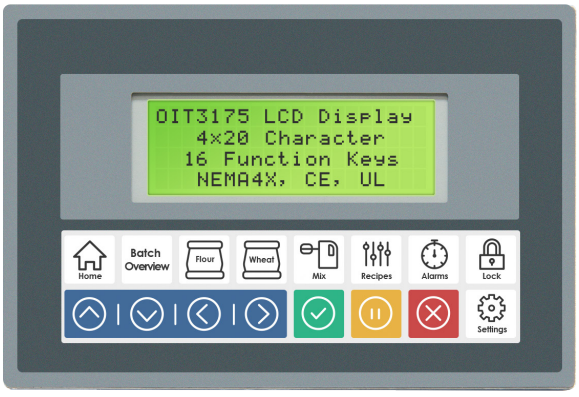
Maple Systems OITs - Affordable Operator Interfaces

Maple Systems OITs offer best-in-class features including user-definable keypads and slide-in legends for a custom look. Enjoy linear scaling, horizontal scrolling, screen chaining, high/low limits, and support for multiple languages. Easily create the perfect operator interface terminal for your application to communicate with PLCs, motion controllers, temperature controllers, embedded controllers, and more.

Maple Systems OITs communicate with PLCs and motion controllers using point-to-point serial communications to read from and write to internal discrete and register memory of the controller. Some of the controller's discrete and register memory is designated for special purposes: Message Request Register, Current Message Register, Stat Bit Coils, and Key Coils.

OIT Series Key Features:

- 2 x 20 or 4 x 20 LED Backlit LCD
- 2 x 20 or 4 x 20 Light Emitting Vacuum Fluorescent (VFD)
- Class I, Division 2 rated
- Customizable slide-in keypad legends
- 16 or 24 programmable function keys
- Serial RS-232 / RS-485 ports
- Sturdy metal enclosure
- Operates in extended temperatures: -14˚F up to 149˚F
- NEMA 4X, UL, and CE certified



Introduction to OITs

Maple Systems OITs are easy-to-program, text-based units, available in either backlit LCD or vacuum fluorescent models and are compatible with most major brand PLCs. Perfect for those who desire physical function keys, OITs offer cost-effective replacements for push buttons, switches, displays, dials, and lamps.

	OIT3160-B00	OIT3165-A00	OIT3175-A00	OIT3185-A00	OIT4160-B00	OIT4165-A00	OIT4175-A00	OIT4185-A00
Display								
Type	LCD	LCD	LCD	LCD	VFD	VFD	VFD	VFD
Line x Characters	2 × 20	2 × 20	4 × 20	4 × 20	2 × 20	2 × 20	4 × 20	4 × 20
Keypad								
Numeric Keypad	Yes	24 User Defined	16 User Defined	24 User Defined	Yes	24 User Defined	16 User Defined	24 User Defined
Alpha Keypad	No				No			
Slide-In Legend	None	All	All	All	None	All	All	All
Function Keys								
Global	0	0 to 16	0 to 16	0 to 16	0	0 to 16	0 to 16	0 to 16
Screen Dependent	6	0 to 8	0 to 8	0 to 8	6	0 to 8	0 to 8	0 to 8
Protocols								
PLC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ASCII	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Serial Port	1	1	1	1	1	1	1	1
Ethernet	No	No	No	No	No	No	No	No
USB	No	No	No	No	No	No	No	No
Power Requirements	12 to 30 VDC, 91 mA @ 24 VDC	12 to 30 VDC, 91 mA @ 24 VDC	12 to 30 VDC, 95 mA @ 24 VDC	12 to 30 VDC, 95 mA @ 24 VDC	12 to 30 VDC, 57 mA @ 24 VDC	12 to 30 VDC, 57 mA @ 24 VDC	12 to 30 VDC, 84 mA @ 24 VDC	12 to 30 VDC, 84 mA @ 24 VDC
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Dimensions (W" × H" × D")	6 x 4 x 1.77	6 x 4 x 1.77	6 x 4 x 1.77	6 x 5 x 1.77	6 x 4 x 1.77	6 x 4 x 1.77	6 x 4 x 1.77	6 x 5 x 1.77
Operating Temperature	14° ~ 149° F [-10° ~ 65° C]	14° ~ 149° F [-10° ~ 65° C]	14° ~ 149° F [-10° ~ 65° C]	14° ~ 149° F [-10° ~ 65° C]	14° ~ 149° F [-10° ~ 65° C]	14° ~ 149° F [-10° ~ 65° C]	14° ~ 149° F [-10° ~ 65° C]	14° ~ 149° F [-10° ~ 65° C]
Storage Temperature	-22° ~ 176° F [-30° ~ 80° C]	-22° ~ 176° F [-30° ~ 80° C]	-22° ~ 176° F [-30° ~ 80° C]	-22° ~ 176° F [-30° ~ 80° C]	-22° ~ 176° F [-30° ~ 80° C]	-22° ~ 176° F [-30° ~ 80° C]	-22° ~ 176° F [-30° ~ 80° C]	-22° ~ 176° F [-30° ~ 80° C]
Rating	IP65 (NEMA 4X)	IP65 (NEMA 4X)	IP65 (NEMA 4X)	IP65 (NEMA 4X)	IP65 (NEMA 4X)	IP65 (NEMA 4X)	IP65 (NEMA 4X)	IP65 (NEMA 4X)
UL Listing	Class I, Div 2	Class I, Div 2	Class I, Div 2	Class I, Div 2	Class I, Div 2	Class I, Div 2	Class I, Div 2	Class I, Div 2
CE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

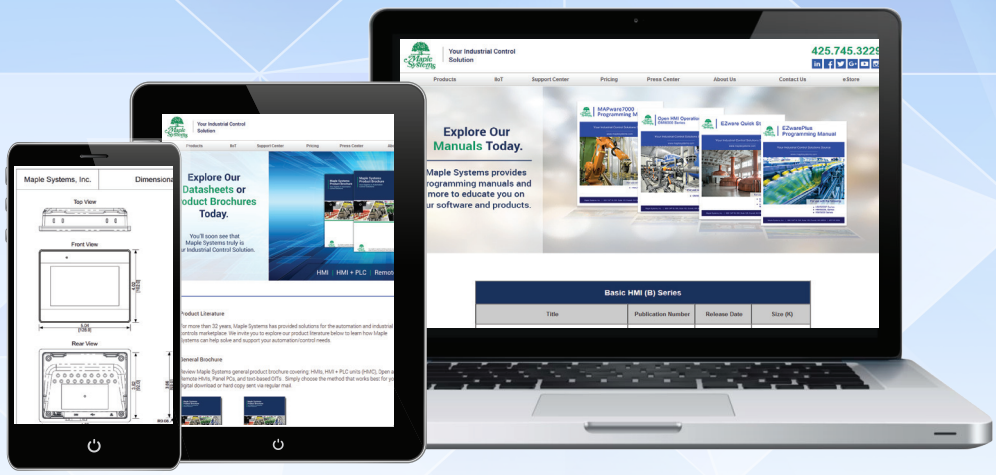
PLC Support

Maple Systems OITs communicate with over 100 brands of PLCs and motion controllers, making them compatible with most major brands of PLCs and motion controllers on the market including Allen-Bradley, Modicon, GE, Keyence, Galil, and Bristol Babcock.

Class I, Division 2

All OIT models carry a Class I, Division 2 rating, safe for use in hazardous environments where exposure to explosive gases, liquids, and vapors may occur.

SUPPORT



The Maple Standard represents our promise to deliver quality, reliability, and value to help you achieve your business and process goals.

The Maple Standard

Maple Systems is honored to be recognized as a leader in the industrial controls marketplace. The Maple Standard represents our dedication to delivering high-quality control products and unmatched support to our valued customers. It is our promise to deliver quality, reliability, and value to help you achieve your business and process goals.

Comprehensive Website and Support Center

Our online Support Center allows our registered customers 24-hour access to all of our technical documentation. Explore tech notes, product specifications, sample projects, drivers, and software upgrades. We also offer complimentary technical support to customers via email and phone, as well as training videos, whitepapers, and controller information sheets.

Visit us at **maplesystems.com/support** or email us at **support@maplesystems.com** for assistance.

Contact Us

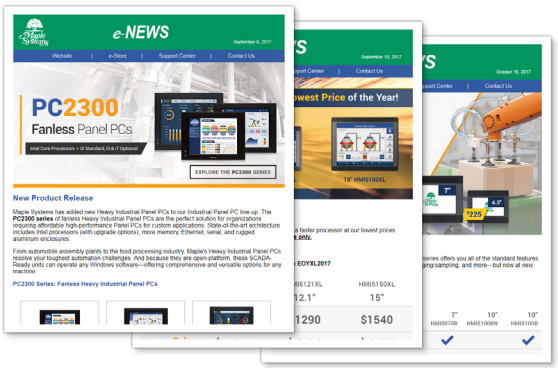
How can Maple Systems help meet your control needs? Contact our industrial automation experts today.

Phone: 425.745.3229
Sales Email: sales@maplesystems.com
General Email: info@maplesystems.com
Website: www.maplesystems.com

Quality Products and Customer Service

We Make Partnerships Easy

At Maple Systems, our team strives to make doing business with us easy. We want you to achieve a positive and enjoyable experience every time you use our products or services. When partnering with Maple Systems, know that our high-quality, competitively-priced products are backed by a dedicated team of professionals ready to assist you. We lead the industry with 35 years of industry experience, quality products that are built-to-last, and a team dedicated to providing excellent service.



PLC Integration

Maple Systems products integrate with programmable controllers from the biggest names in PLCs including Allen Bradley, Schneider Electric, GE, Siemens, Mitsubishi, Omron, and more.

Communicate with motion controllers, temperature controllers, embedded microcontrollers, and more.

HMI Configuration & SCADA Software

Maple Systems offers easy-to-use configuration software specific to each HMI, HMI + PLC, and OIT product line. We also recommend and offer Web Studio SCADA software for use with our Light and Heavy Industrial Panel PCs.

Experience greater functionality at a fraction of the cost compared to other industrial control software solutions.

Industry Accolades

Maple Systems has received many favorable product reviews, readership, and editor awards from customers, media, and trade publications.

Our products have been featured in articles from major trade publications including Control Design, Control Engineering, and Packaging World. Maple Systems was also named one of America's fastest growing private companies for six years by Inc. 5000 Magazine.

IIoT Ready

Maple's Advanced and cMT Series HMIs and Panel PCs are all IIoT-Ready. With the ability to connect remotely and support for OPC UA, MQTT, and other IIoT protocols, Maple Systems solutions ensure that OEMs' machines will be IIoT-ready today, for when customers request those features tomorrow.

Reliability You Can Trust

At Maple Systems, we want every customer to be a lifelong customer. This commitment has helped us consistently offer great value and support to customers at affordable prices for over 35 years.

We hope you will be part of our future as we continue to lead and innovate the industrial controls marketplace. After all, the most important ingredient in "The Maple Standard" is You.

Maple Systems
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Everett, WA 98204