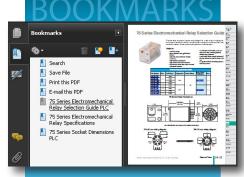
VAUTOMATION DIRECT

HMI: Operator **■ Interface**









In this interactive PDF you can:

- Use bookmarks to navigate by product category
- Use bookmarks to save, search, print or e-mail the catalog section
- Click on part #s to link directly to our online store for current pricing, specs, stocking information and more

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C-more Operator Touch Panels

Starting at just \$499.00, *C-more* is designed to give you one of the best costs of ownership, considering initial price, features, ease of use, reliability and free award winning technical support.

We continue to improve hardware and software features. Perhaps this is why more and more people find that *C-more* has what it takes to meet most of their HMI application needs. But don't take our word for it, see for yourself. Visit our Web site (www.automationdirect.com) and read all of the reviews that current *C-more* customers have submitted.

"I have used the C-More touch panels for years. They are reliable and fairly "bullet proof". I have utilized 6", 8", 10", 12" and 15" to control cell doors and escape detction systems in a maximum security prison, along with the Direct Logic Koyo PLC line and DirectSoft Programming software, with great sucess. Also you cannot beat the quick shipping, fair pricing and top-notch tech support of all **Automation Direct products."**

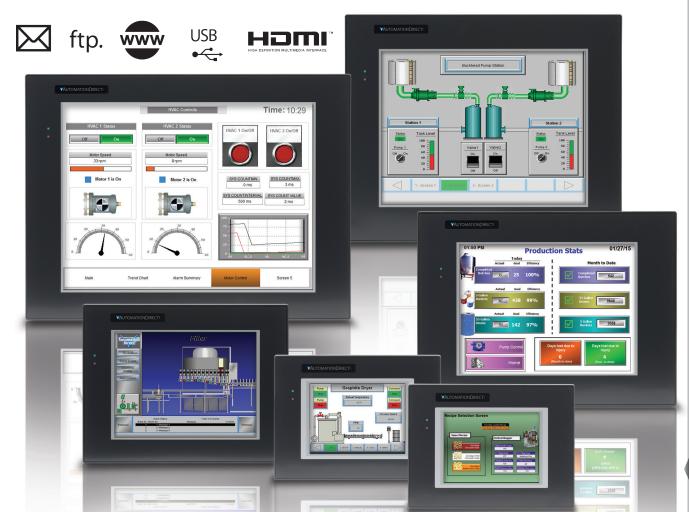
Rick - CONCORD, NH



"In a single project we utilized 3 of these units. All three hold the same configuration, however with the password entry, they become an independent screen for each area or the overall control. The biggest bonus is the web access and now the C-More app for the smart phones and tabs. Buying someone else's touch screen is just not on our radar." Greg - SMITHS CREEK, NB



Easy to configure, install and maintain



Made by Koyo

Koyo Electronics, our parent company, is part of the multibillion dollar JTEKT group of companies that primarily provides components to automotive manufacturers such as Toyota. With this type of engineering and manufacturing background, we knew Koyo could create a product that would offer the best combination of reliability, ease of use, features and price.

Backed with a 2-year warranty

For over 50 years, Koyo has been a world class manufacturer of reliable and best valued products. C-more was designed with quality in mind and engineered by Koyo to meet the most stringent quality requirements. Therefore, Koyo is confident to offer a 2-year limited warranty on all *C-more* panels.

Hundreds of powerful features

We maximized every feature, small and large, to make sure you have a great experience with your touch panel.

- · Proven Reliablity
- · Predefined Objects
- Enhanced Productivity Tools
- Increased Device Connectivity
- Remote Access and Control from any web browser, or with the new mobile

C-more has better value all around!

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Communicate any way you want

C-more was designed to offer the widest range of connectivity options of any PLC touch panel in its class.

Part Number	Ethernet	SD Card Slot	Serial Ports	HDMI Video Output	Audio Output	USB Ports
EA9-T6CL-R		1 Slot	1 Port			
EA9-T6CL	Yes	1 Slot	3 Ports		Yes	
EA9-T8CL	Yes	1 Slot	3 Ports		Yes	USB 2.0
EA9-T10CL	Yes	1 Slot	3 Ports		Yes	Type A and B
EA9-T12CL	Yes	2 Slots	3 Ports	Yes	Yes	
EA9-T15CL	Yes	2 Slots	3 Ports	Yes	Yes	

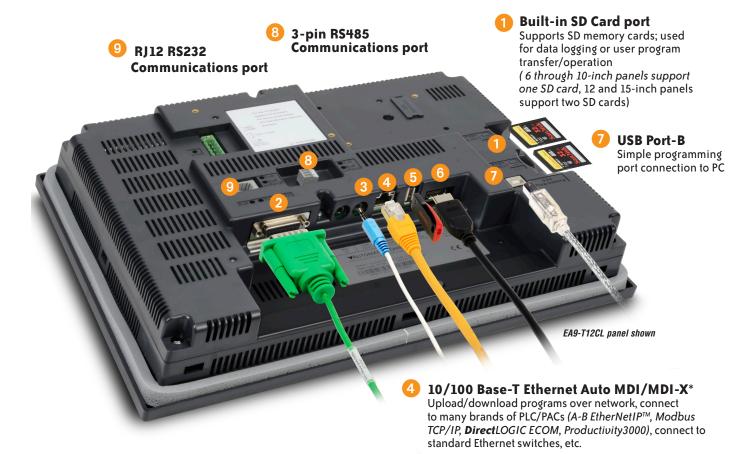












Serial Communication ports RS-232, RS-422/485 port, connects to numerous brands including Allen-Bradley, GE, Omron, Mitsubishi, Automation Direct and more

Audio Line out* For amplifiers and speakers; allows .wav files to be played when a specified event occurs USB Port-A

Accepts USB devices such as memory sticks, keyboards, barcode scanners, etc.

HDMI Video out on 12 and 15-inch panels Allows for HDMI output to other HDMI display devices. Use HDMI cable to output the active C-more screen to other display devices (12" and 15" models only).

^{*} Available only on full featured units



Smart power supply options allow for improved reliability

C-more can operate with 12 or 24 VDC power supply. This is great for applications that have good clean 12 or 24 VDC power. However, there are many situations where the DC power in a cabinet does not meet required specifications for instrumentation.

C-more offers an optional 100-240 VAC screw-on power adapter (EA-AC) that improves panel reliability. Since it is built specifically for **C-more**, it offers power fault detection

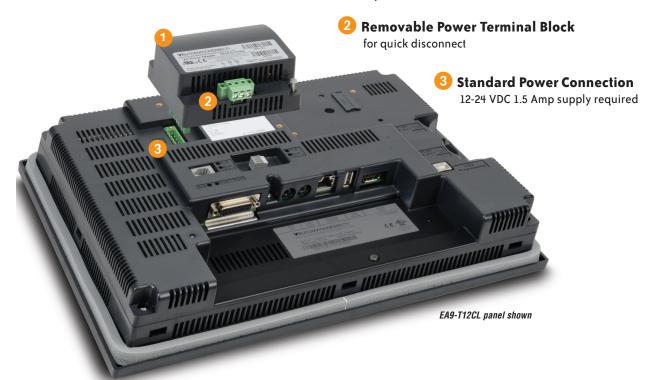
with sequential shut-down, and will set an error flag that can be configured with a time and date stamp to help troubleshoot a problem.

The power fault detection will attempt to "close" data logging files on SD memory cards to prevent file corruption. If data logging is critical to your applications, the EA-AC power adapter is a must.

Power Fault Detection Sequential Shut-down Error Flag you can log

110 VAC to 24 VDC Power Supply

- Improves panel reliability
- Power fault protection with sequential shut-down
- Sets error flag; can configure tag with time and date stamp





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DOOK 1

Conditions



Tag-based Messaging

C-more software supports direct insertion of ControlLogix, CompactLogix and FlexLogix tags from the PLC into *C-more* - no mapping or translations required.

Allen-Bradley® PLC Driver Support:

- ControlLogix®
- CompactLogix®
- FlexLogix
- SLC[®] 5/05 Ethernet™
- MicroLogix™ 1100/1400 Ethernet

including:

- A-B DF1
- A-B DH485
- A-B EtherNet/IP Client
- A-B Ethernet/IP Server Generic IO Messaging

See complete Driver list on page CR-25

Get A-B Ethernet connectivity and 64K colors starting at

p/n EA9-T6CL: supports seria and Ethernet-based



Automation Direct

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Terms and Conditions

Fast and Simple Driver Setup

We have many protocols for the Allen-Bradley PLC brand. The A-B Ethernet drivers allow the simple connectivity of multiple panels and/or multiple Allen-Bradley PLCs. We also have ControlLogix EtherNet/IP Tag Messaging support. This feature helps increase productivity by reducing the time often required

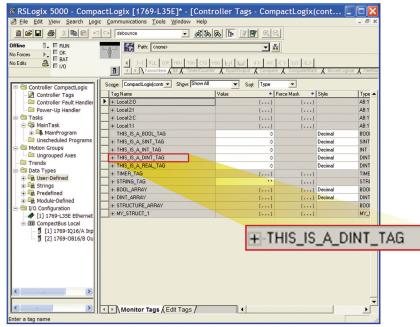
to map your PLC tag database into another device. You can import the RSLogix 5000 L5K file directly, or with just a few clicks of the mouse you can directly enter your ControlLogix/CompactLogix tags from the PLC into *C-more*. No mapping or translation required!

C-more Allen-Bradley Controller Support	DF1 Full Duplex	DF1 Half Duplex	DH485	Generic EtherNet/ IP Server (IO Messaging)	EtherNet/IP Client	EtherNet/ IP Tag- Based Client	Tag-Based DF1 Full Duplex	Tag-Based DF1 Half Duplex
SLC 5/01, 5/02			Yes					
SLC 5/03	Yes	Yes	Yes		Yes ^{xxx}			
SLC 5/04	Yes	Yes	**Yes		Yes ^{xxx}			
SLC 5/05 (Series A OS501 FRN5 & Higher)	Yes	Yes	**Yes		Yes			
MicroLogix 1000, 1200, 1500	Yes	Yes	**Yes		Yesxxx			
MicroLogix 1100/1400	Yes	Yes	**Yes		Yes			
PLC5	Yes							
ControlLogix				Yes		Yes	Yes	Yes
CompactLogix				Yes		Yes	Yes	Yes
FlexLogix				Yes		Yes	Yes	Yes

^{*} Ethernet available on full featured C-more panels only. -R units do not support Ethernet

ControlLogix EtherNet/IP Tag-based Messaging

Configure ControlLogix, CompactLogix and FlexLogic tags from the PLC into *C-more* (no mapping or translations required).



2. Type in the PLC tag names directly. You can use the PLC tag names as your *C-more* tag names or choose a different *C-more* tag name when appropriate.

You can configure ControlLogix, CompactLogix and Flexlogic tags in the *C-more* Programming software through two different methods:

1. Import the tags from RSLogix 5000 (.L5K file).

Book 1 (14.2) **eCR-7**

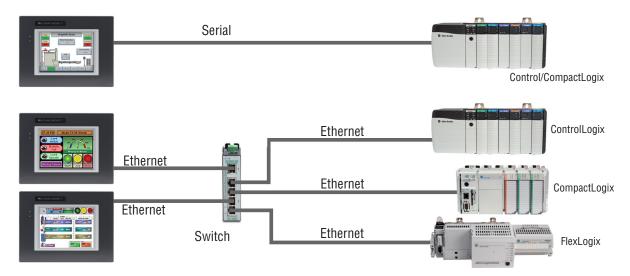
^{**}AIC module from Allen-Bradley required for this connection

^{***}NET - ENI module from Allen-Bradley required for this connection

ControlLogix, CompactLogix and FlexLogix

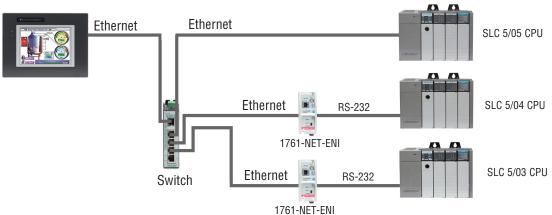
Connect to ControlLogix, CompactLogix and FlexLogix PLCs using either the native serial port or Ethernet port/module. Use direct tag-based messaging or directly enter the

ControlLogix/CompactLogix PLC tags during *C-more* configuration (no mapping or translations required). You can connect multiple *C-more* panels to multiple PLC types on one network.



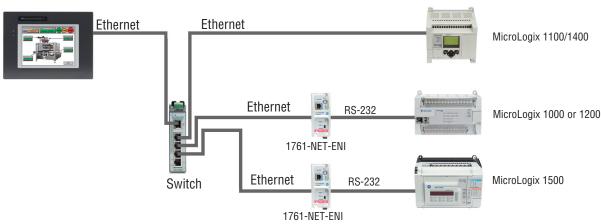
SLC 500 Ethernet and ENI Driver

Connect to the native Ethernet port on SLC 5/05, and to SLC 5/03 and SLC 5/04 through a 1761-NET-ENI DFI serial-to-Ethernet converter.



MicroLogix 1100/1400 Ethernet and ENI Driver

Connect to the native Ethernet port on MicroLogix 1100/1400, and to MicroLogix 1000, 1200 and 1500 through a 1761-NET-ENI DFI serial-to-Ethernet converter.

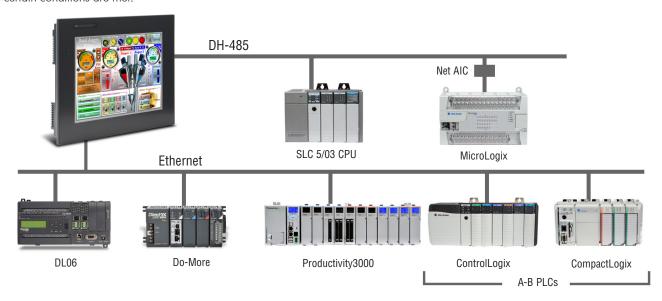


Simultaneous Communications and Panel Pass-through

Connect multiple brands of PLC/PACs

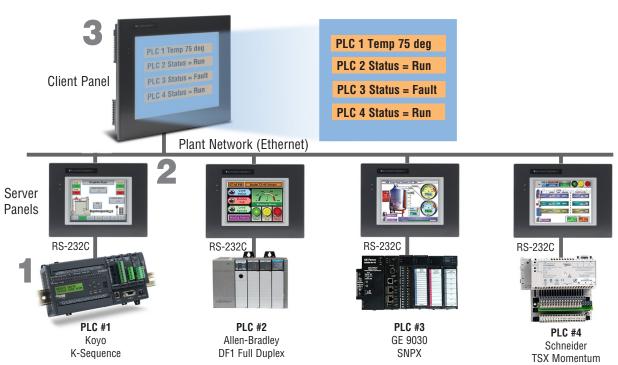
Connect multiple brands of PLC/PACs to C-more and communicate with them simultaneously. Use the Event Manager to periodically send tag values from one controller to another or when certain conditions are met.

C-more can even act as a "protocol bridge", passing values back and forth between PLC/PACs that use different protocols.



Panel pass-through

C-more panels can access data from supported controllers attached to other C-more panels via an Ethernet connection.



Each PLC is operating a seperate application and is connected to a C-more panel through a Serial Connection

Each C-more is configured as usual. When the client panel is configured, the server panels will pass through data from the PLCs to the client.

The C-more client panel is configured to display the data collected from each PLC connected through a C-more server panel.

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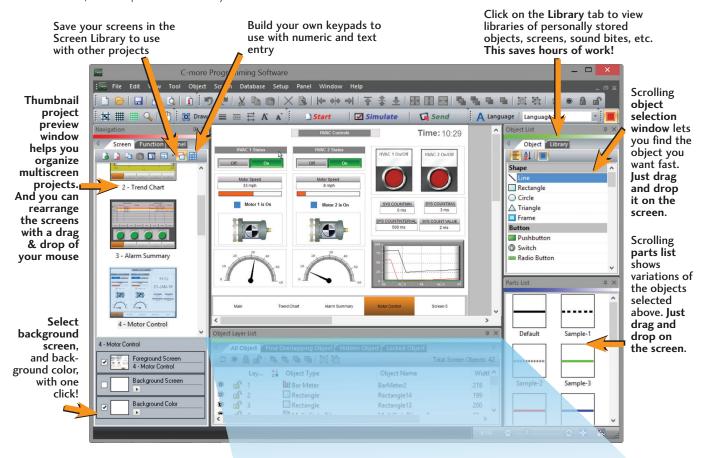
Industrial Marquees

Other HMI

Programming Power...

Powerful configuration software with legendary ease of use

C-more's mission is to make you feel like a touch panel configuration expert. So we put in many tools to make your job go faster and more effeciently. Even simple things, such as object configuration boxes, have improved. We think you'll be able to do more with *C-more* in even less time!

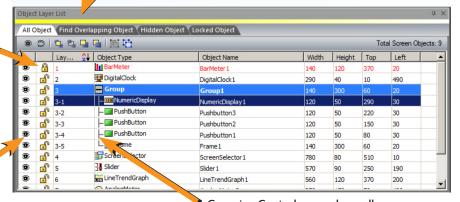


Lock/Unlock Object- This editing tool disables edits to objects that are locked. Once Locked, the object will remain locked and saved within the software. Reduces edit mistakes to objects when multiple users may be accessing or editing a project.

Hide/Unhide Object feature- This editing tool allows hiding objects that may interfere with editing other objects on the screen, such as Pop-up window objects.

Hardware manuals and help files are a few clicks away. Need more? Follow the links to *C-more*'s online library of objects and sound bites, or visit *C-more*'s online forum.

Object Layer List Window shows all the objects on the active screen. Quickly select an object from the list to edit or highlight the Object.



Grouping Control: expand or collapse Grouped objects. Access individual objects in a group without having to separate the group or move objects on the screen.

Powerful Database Tools

Customize your searches

Easily edit *C-more*'s databases with the latest software tools. Create, import, export and search for tags and other datatypes

with a click of a button. Powerful search filters allow for custom search terms based on various options.

- Tagname Database
 Massage Database
- Event Manager Database

Import Tag Name Database.

Message Database...

Event Manager Database.

Address Book...

Language Edit...

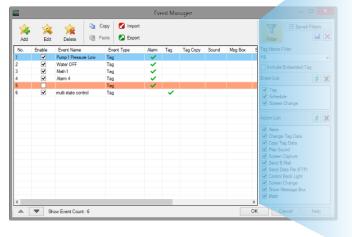
Project Data...

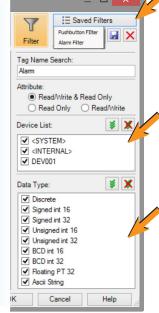
Library...

Export ▶

Message Database







Customize and save your own search terms for those most used items. Control Systems

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Device type filters allow you to reduce the view to just the device tags you want to find or edit.

Data type filters allow you to reduce the view to just the specific tag data types you want to find or edit.

Database Import & Export saves you time

The Import and Export tools allow you to quickly exchange database files between C-more projects, or PLC tagname files. With just a few clicks of the mouse, you can create a .csv or

xls file. This greatly reduces the time needed to create a new database, especially when there are hundreds, or thousands of data points to work with.

Import or Export

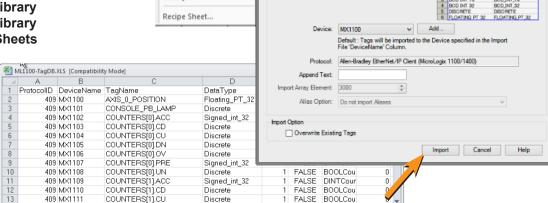
Tagnames

Messages

E-mail Addresses

Languages

- Events
- Project File
- Screen Library
- Graphics Library
- Object Library
- Sound Library
- Recipe Sheets



With supported PLC databases, simply export the PLC tagnames and use the C-more import tool to select the .csv or xls file.

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Importing PLC tags is easy
With supported PLC databases, simply expo

Import Tag Name Database from Excel/CSV File

✓ My file contains a Header Roy

1st Row is not imported.

File Path: My Database Folder\ML1100-TagDB.XLS

CSV Format: C-more (Default)

Appendix Book 1

C-more Operator Touch Panels

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Productivity Tools: Built-in Simulator

Built-in project simulator pays for the panel in time savings!

The "one click" built-in simulator is one of *C-more*'s most powerful features. You will find yourself using this feature every couple of minutes while developing your project. Using this intuitive simulator will result in a better looking and more effective project completed in less time.

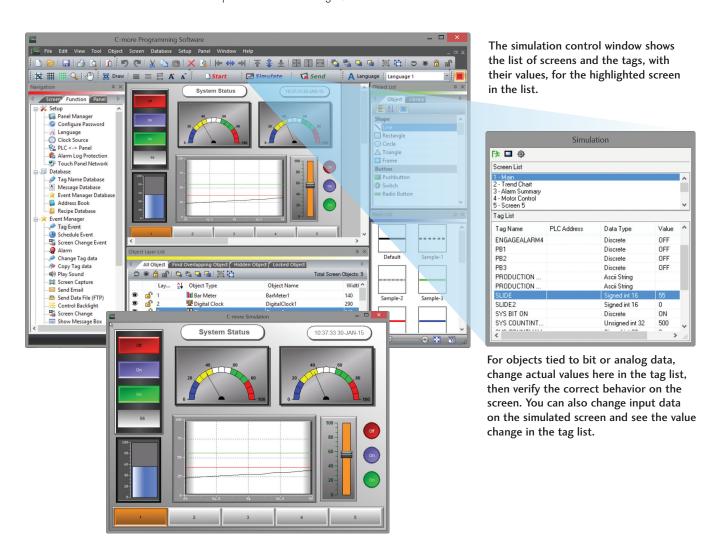
The simulator allows you to fully simulate your entire project (every object, every screen) while it is being developed, without being connected to a touch panel or PLC/PAC. Simply click on the "Simulate Project" button at any stage of project development. A window will appear over your development screen that contains a pixel-for-pixel representation of how your project will appear on your physical *C-more* panel. A simulation control window will also appear.

Now the fun begins. Simply click your mouse on any simulated screen object and it will behave as if your finger is actually touching a *C-more* panel. For example, clicking on a pushbutton object will activate and deactivate it as if an operator were touching it!

The same will be true for thumbwheels, slider switches (simply hold your mouse button down and slide), selector switches, toggle switches and so forth. Want to see how an analog meter moves based on dynamic data from the PLC/PAC? Simply move your mouse to the "Simulation control window" of the simulator, move to the tag and click on the data you wish to change. Now type in the value that you want to simulate, and watch your meter move on the simulated screen.

And here's the really cool thing - whatever values you modify during simulation, the effect will be propagated throughout your entire project, object by object, screen by screen. That's because this is a true "project simulator".

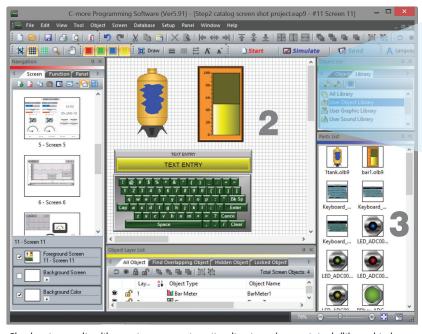
To stop the simulation, just click on your project development screen and you're back to project configuration. You can go back and forth in a flash. It's that easy!

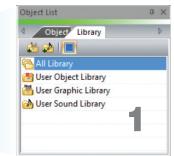


User Libraries, and Project Migration

User libraries allow you to re-use your work again and again

C-more provides three user libraries that allow you to efficiently re-use your work throughout your project or for other projects in the future. You can store a custom object, such as your company logo or a group of objects that compose a custom object (see the tank with cut-away and bar graph below). You can also store entire screens, graphics and sound bites. You can access your libraries at any time and re-use your work by merely clicking on the saved item and dragging it from the library into your project. You can even import and export library items to share with other designers.





- Object, graphic and sound libraries
- Create, store and retrieve your:
 - Custom objects
 - Entire screens
 - Sound bites
- Re-use your work in this project or future projects

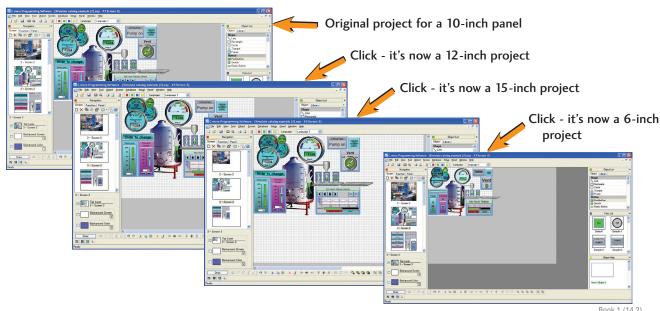
Check out our online library at: c-more.automationdirect.com/support_tools/library.html

Change your project screen size with a click of your mouse

Imagine developing your project on a 10-inch panel and then deciding to change the size to a 15-inch panel or an 8-inch panel. In the past, you most likely had to recreate your entire project and reconfigure every object, tag and screen.

With C-more, your project can be automatically converted for

a different size display with a click of the mouse. Of course, you may wish to move things around a little since you have a different screen size. This feature is great for OEMs or integrators that may be installing different configurations of the same machine or process.



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Powerful Event Manager Triggers Alarms and Actions

Fill-in-the-blank Event Manager saves time, PLC/PAC programming and memory

C-more provides a powerful yet easy-to-use Event Manager which takes exception handling (including alarms) and scheduling to the next level. The simple fill-in-the-blank manager allows events to automatically trigger several actions without the need for hours of PLC/PAC programming.



On the Event Manager screen, create an event, enter the required data, and select multiple actions. It's that easy!

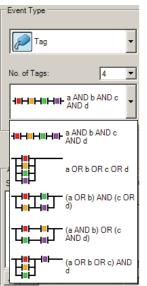
The Event Manager goes beyond simple Alarm and Message functions, and allows C-more to take action based on events such as:

- Tag status or value
- A combination of tag status or values
- · Date or time
- · A screen change

The Possible Actions include:

- · Create an alarm
- Play a sound
- · Write values to tags
- Copy tag values
- Send e-mails (with embedded tag data!)
- · Force screen changes
- · Capture screen image
- Pop-up messages (with embedded tag data!)
- · Send files via FTP
- · Carry out math formulas

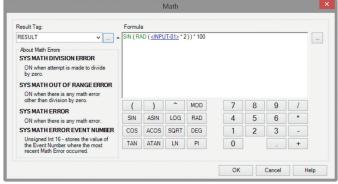
Tag Combinations allow for simple logic with multiple events



Combine up to four different tags into simple logic events that will trigger actions.

Math Actions add more power to your project

Create a custom formula or use the Math Keypad to create formulas with Constants or even Tag Values. The Result is placed into a User Defined Tag.



1234+SIN(<TAG>+PI(123)+LOGa

- Numbers in Black
- Tags in Blue
- Calculations and Functions in Green
- Errors in Red

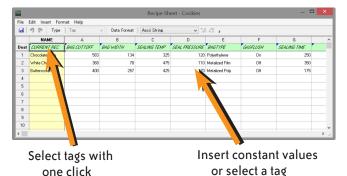
Convenient Recipe & Alarm Functions

More flexible recipes reduces programming effort

Recipes make it easy to make large numbers of tag changes with the push of a single button.

C-more provides tremendous flexibility and capacity to applications that require multiple recipes. It has a simple recipe button that supports 99 recipe sheets, each with 1000 recipes of 256 possible #tags or values. C-more recipe values can be modified and saved on the fly by the operator while the machine is running.

Spreadsheet-based Recipe Creation



one click

- New Recipe Database
- 99 recipe sheets
- 1000 recipes per recipe sheet
- 256 possible tags or values
- Load recipe data directly to PLC registers
- Operator editing of recipes while running



Alarm List Object offers detailed alarm management for operators

Alarms are used to notify operators of critical situations that may arise during a process. The Alarm List Object allows operator interaction with alarms that have occurred and allows operators to view, confirm or clear the alarms. Alarms can include specific messages with embedded PLC tag data as well as, date and time information for the alarm status. Alarm status can be color coded to help operators quickly interpret the status for each alarm.

The Alarm List Object allows alarm details to be displayed and logged for future reference



The Alarm List Object can be filtered to show alarms based on status.



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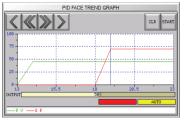
Other HMI

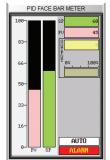
Trends, Logging and Control Options

Trend graphs, PID faceplates, true historical data logging

C-more's trend graph supports 16 pens, selectable to be hidden or shown by the operator. Show only the trends you wish to see, when you wish to see them. In addition, the full featured *C-more* units support data logging to SD cards or USB memory devices. Gigabytes of trend data can be stored, limited only by you. The information can also be sent from *C-more* to your PC over the Internet, triggered by an event. C-more also has the standard PID faceplate and an enhanced version which shows trend data of the setpoint process variable and control variable.







- 16 pen trends
- PID faceplate
- · PID with trend faceplate
- Each pen can be turned on/off



True historical data logging



Log to SD card/USB

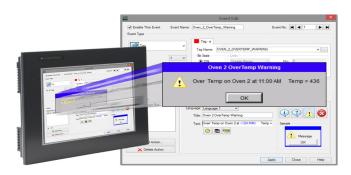
Pop-up windows for information and control

Use Pop-up Window Frames to overlay information or to provide extra controls on top of other screens. Operators can reposition the pop-up anywhere on the screen or close the pop-up when no longer required. Pop-up windows are created just like the other objects in the project, and can include a portion of any C-more screen (except other Pop-ups - no cascading available).



Pop-up Message Boxes for critical events

Create Pop-up Message Boxes in the Event Manager. You define the trigger criteria, and then select "Message Box" as the "action". You can type in a short message to appear in the box, and select an icon to display with your message. You can even include tag data, and date/time information in the message. The operator must click the OK button in order to clear the message box. You can also log an alarm at the same time the message box is activated via the event manager (along with many other actions).



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Fonts and Animation

Built-in fonts

C-more has 14 different fonts for objects such as pushbuttons, indicators, meters and so on. These fonts are used for object-integrated labels and ON/OFF phrases for each of *C-more's* standard objects. Each font can be bolded, italicized and underlined. Fonts can be scaled to hundreds of sizes, giving you extreme flexibility.

Times New Roman 26pt Bold Italic
Times New Roman 20pt Bold
Times New R

Object Fonts

Need even more fonts? Use any of the dozens from your PC as "Bitmap Text". (Although bitmap text cannot be used as an integral part of standard objects, they can be used for a wide variety of static annotations.)



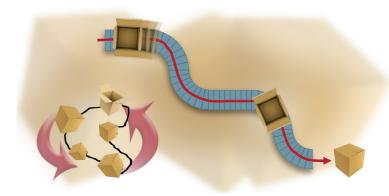
Bitmap Text Fonts

Built-in animation makes the process come to life

Virtually any bitmap object (from your PC hard drive, the built-in 4,000 symbol library, custom-drawn, etc.) can be animated to follow a straight line or a scribbled path. In addition, the object can change size or orientation (rotation).

5 types of animation (any combination)

- Straight line... X or Y
- · Scribbled path with up to 64 points
- Rotational
- Change size
- Multi-State Bitmap



A bitmap object (picture of cardboard box) follows a curving path along a conveyer (the path can be hidden). The box can rotate around the bends in the path and even change sizes. The bitmap changes toward the end to a closed box shape.

Of course, the object can also do any combination of actions as well. Best of all, the animation process is very straightforward. You will be animating your first object in as little as a few minutes!

Axis Animation:

PLC tag values dictate the actual screen position of an object. Move objects along a single axis or use different tags for simultaneous X-Y position control.

Point Animation:

Define a path with up to 64 points for point-to-point object motion, or use "ratio" mode to move smoothly along a path. Scaling of PLC tag values to the path positions is optional.

Object Rotation:

Control rotation of an object based on the value of a PLC tag. Also allows scaling of tag values to angular values.

Object Size:

Control the size of an object based on PLC tag values. Independent X and Y-axis scaling of object size is possible, along with scaling of the tag values.

Multi-State Bitmap:

Use up to 16 different bitmap images to animate changes in the appearance of an object.

Benefit:

Animations of machine motion and factory processes enhance comprehension, and give operators a visual representation of the desired motion of products, and machinery on screen. ompany

Control Systems

CLICK PLC

Do-More PLCs Overview

> Do-More H2 PLC

Do-More T1H

DirectLOGIC PLCs Overview

DirectLOGIC DL05/06

DirectLOGIC DL105

DirectLOGIC DL205

DirectLOGIC DL305

DirectLOGIC DL405

Productivity Controller Overview

> Productivity 3000

Iniversal

Software

C-More

C-More Micro HMI

ViewMarq Industrial Marquees

Other HMI

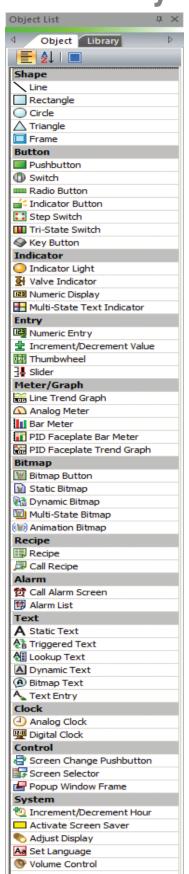
Communications

Annual Co

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Wide Array of Objects and Customized Parts



Here are just a few of the more than 50 types of objects in the standard Object List

Pushbuttons



Indicator Lights



Analog Meters

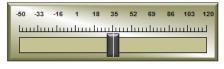




Switches





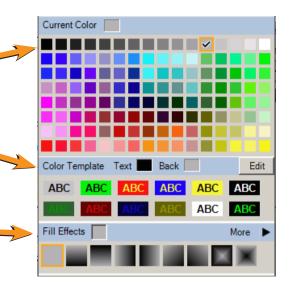


Personalize your screens

Object Format options make personalizing your screen objects simple. Select the colors, frames, and background effects with just a few clicks of the mouse.

Choose from the default color templates or create and save your own templates to use as often as you like.

Backgrounds for many objects support gradient fill effects that make them stand out.



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Control Systems

CLICK PLC

Do-More PLCs Overview

Do-More H2 PLC

> Do-More T1H PLC

DirectLOGIC PLCs Overview

DirectLOGIC DL05/06

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Productivity Controller Overview

Productivity 3000

Universal Field I/O

Software

-More

O Mara Miara

C-More Micro HMI

ViewMarq Industrial Marquees

Other HMI

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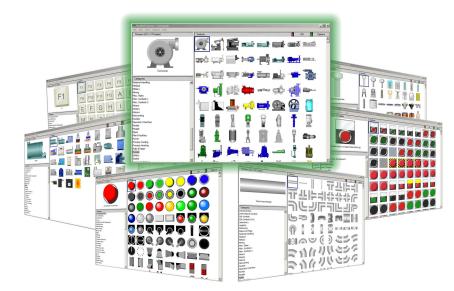
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Over 4000 industrial graphics with Symbol Factory

Select from 80 different categories offering vector graphics that can be scaled up and down in size without loss in image quality. Free Cutaway Control is also included for doing tank type fills. If that is not enough, you can always use your own bitmap graphics with the same objects.



Dynamic Bitmap



Set Language

Tri-State Switch

Thumbwheel

Off #2

Off#3

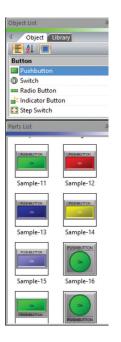
On #1



Bitmap Text Use any Font on Your PC

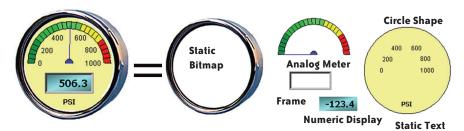
Hundreds of pre-configured parts

C-more also provides ready-made "parts" (versions of each default object) that are available to drag and drop into your project. Select any object to see preconfigured parts in the Parts List. Select the one that most closely matches your needs - and customize it even further, if you like. Then save it in the user library for future use.



Create custom objects

Use a combination of *C-more* objects and parts to create your own objects, or even entire sections of screens.



Custom Object

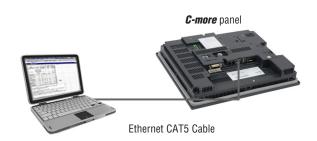
Assembled from 12 parts

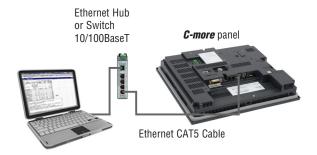


Network programming

Full-featured *C-more* panels can be programmed via the built-in Ethernet port (the EA9-T6CL-R model does not support Ethernet). Connect directly from a PC to the *C-more* panel, or connect one or more *C-more* panels to your plant network (via switches and routers). With *C-more* on the plant network, you can download projects from any connected PC. Use the

network connection to upload alarm history, PLC/PAC log data or screen captures to a connected PC. *C-more* can send e-mail, based on events or PLC/PAC alarm conditions (if connected to a network and an SMTP (Simple Mail Transport Protocol) server).

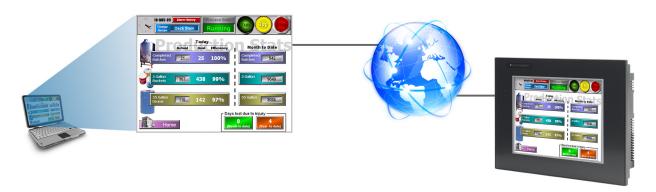




C-more programming software with Internet connection

You can program your *C-more* panel remotely via the Internet. All you need is a Public IP adress assigned to the

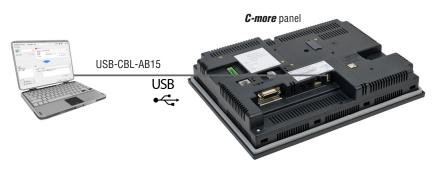
C-more panel and a network that is accessible from the Internet.



USB programming

For convenient programming, use a standard USB cable between your *C-more* panel and your PC. No baud-rate, parity, or stop bit settings to waste your time. USB is fast; most projects download in seconds. Don't pay inflated prices for proprietary

programming cables! USB cables are inexpensive (we sell 'em!) and are readily available so you won't waste time looking for a special cable when your million-dollar operation is down.



Panel Updates using USB or SD **Memory Devices**

Update your panel without a PC

OUSB

Ethernet

172.30.52.103

Panel Information

Project Name:

Project Storage:

Project Runtime:

Project Panel Type: EA9-T8CL

Project Storage: 1.1 MB

Project Runtime: 3.9 MB

Panel Name: EastCoyoteCmore

Panel Type: EA9-T6CL

screen shot project

Close

Help

USB

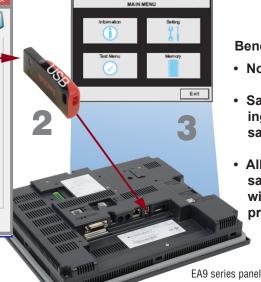
Use SD memory cards or a USB flash drive to transfer projects to your panel without having to connect the panel to a PC. Perfect for updating remote *C-more* EA9 series panels, simply transfer the project to the SD memory card or the Pen Drive, take or send the flash device to the remote location, plug it into the panel and transfer the project into the panel. This is also

a convenient backup of your project, or for when a damaged panel must be replaced. Send project updates to users who might not even have the programming software. Projects can be transferred onto the flash device, and restored to the panel.



Benefits:

- · No PC required
- Saves you from traveling to job site, which saves you money
- · Allows the end user to safely load the project without the C-more programming software



From the PC, transfer your project to an "External memory device"

Project Transfer

External Memory Device

TEL: 770-844-4200

Take (or send) the memory device to the panel and plug it in

Use the C-more system screens to restore your project into the panel memory

Lots of memory for your project

C-more EA9 series panels start with a minimum of 26 MB of user project space on the 6-inch through 10-inch units, while the 12-inch and 15-inch units supply 82 MB for project memory.

How about data storage? Many comparably priced touch panels offer no memory options or they support only proprietary memory cards. With C-more, all EA9 series models have a USB Port-A connector, and one SD card slot (12 and 15-inch panels include two SD card slots). This allows memory for data logging, screen captures, message logging and alarm logging.





C-More Micro HMI

Control Systems

CLICK PLC

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Do-More H2 PLC

Do-More T1H

DirectLOGIC PLCs Overview

DirectLOGIC DL05/06

DirectLOGIC DL105

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Productivity Controller Overview

Productivity 3000

Universal Field I/O

Software

Industrial Marquees

Other HMI

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Authorized users have the ability to remotely:

- Monitor and control screen operations of the C-more panel as if touching the panel itself
- Test and troubleshoot the C-more project
- · View, zoom, print and save screen captures of active screens

Convenient yet secure

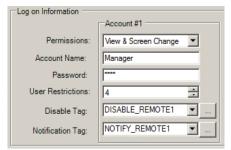
Multilevel Logon Security

Three Remote Access user accounts can be configured and stored in the panel project. Each account allows up to five remote users to be connected simultaneously.

Multilevel Access Control

Each account can be configured in one of the following levels of access:

- View Only
- · View and allow Screen Change only
- Full Control



Touch your panel from anywhere with Remote Access and Control!

- No additional hardware required.
- The C-more Remote Access feature resides in all panels with Ethernet support, and requires no option modules.
- Access real-time data or initiate an action on a control system from anywhere, any time.

C-more from your PC

With a Web browser on any PC, remote users can operate and monitor a local **C-more** HMI system from anywhere on the Internet or on a local network.

C-more from your Mobile Device

Mobile users can download the C-more Remote HMI app from the Apple Itunes store, Google Play, or Amazon App Store, to get remote access and control for Mobile devices for only \$4.99.

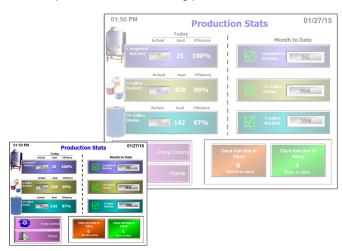






Resizable Window

Unlike many other remote access sotware brands, the *C-more* remote viewer is completely sizable. When the user shrinks or expands the browser window, the projects objects will rescale accordingly.

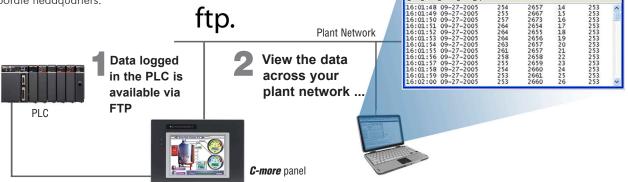


Screen 4_LineTrendGraph1_via_e-mail.log - Notepad

Automation Direct

FTP Data Transfer

The FTP server (File Transfer Protocol) allows transfer of data files between *C-more* and any connected FTP compatible device (usually a PC). Your HMI can collect data and pass it to the PC on your desk, or to your corporate headquarters.

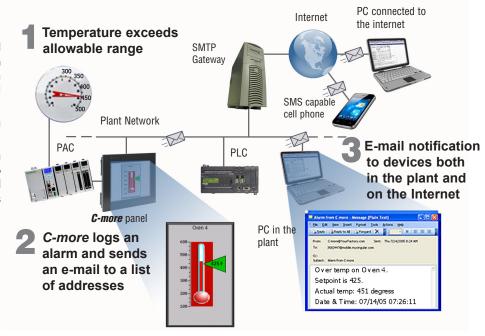


E-mail

Use the Event Manager to send e-mail periodically or when certain Alarms or Events occur. You can even attach log files to the e-mail message.

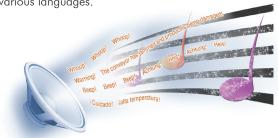
Operators can even key in a message and then press "Send".

C-more supports SSL and Tag based storage of e-mail address so that operators can update e-mail addresses without the programer's support.



C-more and hear more!

C-more can play warning sounds and other .wav files via an external amplifier and loudspeakers (user supplied). Use sirens, buzzers or beeping sounds to draw attention to alarm conditions. Even pre-recorded verbal messages can be triggered to speak to your operators in various languages.



HDMI Video Output

Connect your HDMI TV or monitor to the *C-more* HDMI video output and allow others to monitor what is being displayed on the *C-more* Touch Panel. Mouse support allows any HDMI



C-more Operator Touch Panels

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Do-More H2 PLC

Do-More T1H

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C-More Micro HMI

ViewMarq Industrial Marquees

Other HMI

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Base Model



EA9-T6CL-R - C-more 6" Base model

\$499

C-more EA9 series touch screen interface panel, 6-inch color TFT (5.7 inch viewable screen), base model, 64k colors, 320 x 240 pixel QVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (1) serial port, USB 2.0 Type A and B ports, supports SD memory card, no Ethernet support. Compatible with EA9-PGMSW programming software version 5.0 or later.

Full Feature Models



EA9-T6CL C-more 6"

\$699

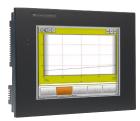
C-more EA9 series touch screen interface panel, 6-inch color TFT (5.7 inch viewable screen), 64k colors, 320 x 240 pixel QVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports SD memory card. Compatible with EA9-PGMSW programming software version 5.0 or later.



EA9-T8CL C-more 8"

\$999

C-more EA9 series touch screen interface panel, 8-inch color TFT (8.4 inch viewable screen), 64k colors, 800 x 600 pixel SVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports SD memory card. Compatible with EA9-PGMSW programming software version 5.0 or later.



EA9-T10CL **C-more 10**"

\$1290

C-more EA9 series touch screen interface panel, 10-inch color TFT (10.4 inch viewable screen), 64k colors, 800 x 600 pixel SVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports SD memory card. Compatible with EA9-PGMSW programming software version 5.0 or later.

Enhanced Feature Models



EA9-T12CL **C-more 12"**

\$1790

C-more EA9 series touch screen interface panel, 12-inch color TFT (12.1 inch viewable screen), 64k colors, 800 x 600 pixel SVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports (2) SD memory cards. Includes HDMI video out. Compatible with EA9-PGMSW programming software version 5.0 or later.



EA9-T15CL *C-more* 15"

\$1999

C-more EA9 series touch screen interface panel, 15-inch color TFT (15 inch viewable screen), 64k colors, 1024 x 768 pixel XGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports (2) SD memory cards. Includes HDMI video out. Compatible with EA9-PGMSW programming software version 5.0 or later.

See technical specifications for available features in each model

Control Systems

CLICK PLC

PLCs Overview

Do-More H2 PLC

Do-More T1H PLC

DirectLOGIC PLCs Overview

DirectLOGIC DL05/06

DirectLOGIC DL105

DirectLOGIC DL305

DirectLOGIC DL405

Productivity Controller Overview

Productivity 3000

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C-More Micro HMI

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Other HMI

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C-more Quick Look

Hardware Selection

Part Number	Ethernet	SD Card Slot	Serial Ports	HDMI Video Output	Audio Output	USB Ports
EA9-T6CL-R		1 Slot	1 Port			
EA9-T6CL	Yes	1 Slot	3 Ports		Yes*	
EA9-T8CL	Yes	1 Slot	3 Ports		Yes*	USB 2.0
EA9-T10CL	Yes	1 Slot	3 Ports		Yes	Type A and B
EA9-T12CL	Yes	2 Slots	3 Ports	Yes	Yes	
EA9-T15CL	Yes	2 Slots	3 Ports	Yes	Yes	

Hardware Features

- 64K colors
- LED backlights
- 800MHz CPU
- 26MB to 82MB project memory depending on model
- 12 to 24 VDC powered (Optional AC module available)
- Built in Real-time Clock with 30 day backup (No Battery required)
- NEMA 4/4X IP65
- USB 2.0 Type A for USB HID compliant devices / Storage memory devices
- USB 2.0 Type B port for Programming

Software Features

- Over 50 objects including 16 pen trends, switches, PID trend faceplate, PID bar graph
- Event Manager allows for Logging and Notifications
- · Language support for objects in German, French, Italian, Spanish, Chinese and Japanese Characters
- Project simulator
- Bitmap animation
- E-mail messaging
- · Built-in FTP server / Web server
- Popup windows
- Data logging to USB/SD Flash Drive
- USB 2.0 Type B port for Programming
- · Historical alarms with time and date stamp along with alarm frequency reporting
- Supports simultaneous communication to multiple brands of PLC/PACs
- Mouse and Keyboard support within the Project
- Remote HMI feature with smart phone / tablet / PC

Support Features

Free Top Rated Technical Phone Support

www.automationdirect.com/C-more

- 2 year Warranty
- 30-Day Money Back Policy

AutomationDirect PLCs

K-Sequence (*Direct*LOGIC PLCs)

SOLO Temperature Controllers

Modbus RTU Modbus TCP/IP

Allen-Bradley

A-B DF1

A-B DH485

A-B EtherNet/IP Client

A-B Ethernet/IP Server Generic IO Messaging

GE SNPX

Omron

Omron Host Link Adapter Omron FINS (Serial and Ethernet)

Mitsubishi

FX Series CPU

FX-1N(C), 2N(C), 3U(C) CPU

Q Series (QO2,Q02H, Q06H, Q12H, Q25H

CPU)

Q/QnA (Serial and Ethernet)

Siemens

S7-200 (Serial: PPI)

S7-200 (Ethernet: ISO over TCP/IP)

S7-300 (Ethernet: ISO over TCP/IP)

S7-400 (Ethernet: ISO over TCP/IP)

S7-1200 (Ethernet: ISO over TCP/IP)

Please refer to the Compatibility Table in the following technical section for detailed information about which protocols are available for use with specific controllers.

Supported drivers

Do-more PLCs

DirectNET (DirectLOGIC PLCs)

Modbus (Productivity3000 controllers, DirectLOGIC PLCs. CLICK PLCs)

ECOM Ethernet (DirectLOGIC PLCs)

Think & Do (Modbus RTU and Modbus TCP/IP)

eCR-25

Other products you might want to consider

It's time you get more than you paid for in a PLC.



Introducing the NEW Productivity 2000

It's not just the low price, but the incredible built-in features that make our new Productivity2000 a must-have controller.

Why pay thousands elsewhere for features that are standard for our newest PLC, including FREE programming software?

• 5 built-in communications ports right on the CPU -

All the communication you need is built right in! Modbus TCP/IP, Ethernet/IP, and serial devices are supported with no additional modules required!

• OLED real-time data displays -

View accurate process variable data (current, voltage and temperature) as well as system diagnostics on the Productivity2000 hardware OLED displays. No meter required!

- Effortless PID loops
- Flexible tag name programming
- Auto-discovered I/O
- Hot-swappable modules
- Simple VFD configuration
- · Built-in data logging
- Multiple wiring options
- rack only 10-1/2" wide

functionality and a super low cost of ownership, the new Productivity2000 is the one you need!





- Web server functionality
- Small footprint: 7-slot

And with 50MB of user memory, USB plug-and-play programming



CPU and I/O Comparison

Base (if required)

Power Supply

16 AC Inputs

16 24VDC Inputs

8 Relay Outputs

8 Analog Input Channels (mA)

Modbus RTU

ASCII Comm Module

Total System Price with USB, Ethernet and Serial

CPU







Allen-Bradley

\$414.50

\$286.00

\$244.00 1769-IQ16

\$301.50

\$713.50 1769-IF8

\$737.00

\$701.00

\$6557.50

\$3,160.00

Get more than you paid for ... www.Productivity2000.com

AutomationDirect

\$69.00

\$69.00

\$255.00

\$105.00

\$69.00

\$51.00

\$199.00

\$0.00

\$0.00

\$817.00















C-more Operator Panels Overview

Getting started

Installing the software and configuring the C-more panel is simple. You will need the following to successfully connect, configure and send a project to the panel:

- C-more touch panel 6", 8", 10", 12" or 15"
- C-more Programming Software, p/n EA9-PGMSW
- C-more programming cable, USB or Ethernet
- 12-24 VDC switching power supply or the optional *C-more* AC Power Adapter, p/n EA-AC
- Personal Computer to run *C-more* programming software
- PLC communications cable (serial or Ethernet) to connect the *C-more* Touch Panel to your controller

Part Number	Description	Price
EA9-T6CL-R	C-more EA9 series touch screen interface panel, 6-inch color TFT (5.7 inch viewable screen), base model, 64k colors, 320 x 240 pixel QVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctiv; for indoor use only), non-replaceable LED backlight, Includes (1) serial port, USB 2.0 Type A and B ports, supports SD memory card, no Ethernet support. Compatible with EA9-PGMSW programming software version 5.0 or later.	\$499.00
EA9-T6CL	C-more EA9 series touch screen interface panel, 6-inch color TFT (5.7 inch viewable screen), 64k colors, 320 x 240 pixel QVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports SD memory card. Compatible with EA9-PGMSW programming software version 5.0 or later.	\$699.00
EA9-T8CL	C-more EA9 series touch screen interface panel, 8-inch color TFT (8.4 inch viewable screen), 64k colors, 800 x 600 pixel SVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports SD memory card. Compatible with EA9-PGMSW programming software version 5.0 or later.	\$999.00
EA9-T10CL	C-more EA9 series touch screen interface panel, 10-inch color TFT (10.4 inch viewable screen), 64k colors, 800 x 600 pixel SVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port: supports SD memory card. Compatible with EA9-PGMSW programming software version 5.0 or later.	\$1,290.00
EA9-T12CL	C-more EA9 series touch screen interface panel, 12-inch color TFT (12.1 inch viewable screen), 64k colors, 800 x 600 pixel SVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port, supports (2) SD memory cards. Includes HDMI video out. Compatible with EA9-PGMSW programming software version 5.0 or later.	\$1,790.00
EA9-T15CL	C-more EA9 series touch screen interface panel, 15-inch color TFT (15 inch viewable screen), 64k colors, 1024 x 768 pixel XGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB CR-272.0 Type A and B ports and Ethernet port; supports (2) SD memory cards. Includes HDMI video out. Compatible with EA9-PGMSW programming software version 5.0 or later.	\$1,999.00
EA9-PGMSW	C-more Windows-based programming software on CD for the C-more EA9 series touch panels. Requires Windows XP Pro 32-bit, Windows 7 (Pro, Ultimate, 32 or 64-bit) or Windows 8 (Pro, Ultimate, 32 or 64-bit). Requires USB or Ethernet connection to touch panel. Cables sold separately. (Does not support C-more EA7 series panels.)	\$99.00
USB-CBL-AB3	Standard 3-ft. (0.9m) USB 2.0 cable, A-type connector to B-type connector, used to connect personal computer to any <i>C-more</i> touch panel for setup and programming. (Note: Touch panels require a power source for configuration and operation.)	\$7.50
USB-CBL-AB6	Standard 6-ft. (1.8m) USB 2.0 cable, A-type connector to B-type connector, used to connect personal computer to any <i>C-more</i> touch panel for setup and programming. (Note: Touch panels require a power source for configuration and operation.)	\$9.50
USB-CBL-AB10	Standard 10-ft (3 meter) USB 2.0 cable, A-type connector to B-type connector, used to connect personal computer to any <i>C-more</i> touch panel for setup and programming. (Note: Touch panels require a power source for configuration and operation.)	\$18.00
USB-CBL-AB15	Standard 15-ft. (4.6m) USB 2.0 cable, A-type connector to B-type connector, used to connect personal computer to any <i>C-more</i> touch panel for setup and programming. (Note: Touch panels require a power source for configuration and operation.)	\$22.50

Control Systems Overview

CLICK PLC

PLCs Overview

Do-More H2 PLC

Do-More T1H PLC

DirectLOGIC PLCs Overview

DirectLOGIC DL05/06

DirectLOGIC DL105

DirectLOGIC DL205

DirectLOGIC DL305

DirectLOGIC DL405

Productivity Controller Overview

Universal Field I/O

Software

HMI

Industrial Marquees

Other HMI

C-more Selection Guide & Specifications

Model	6" TFT color w/ base features	6" TFT color	8" TFT color w/ full features	10" TFT color w/ full features	12" TFT color w/ full features	15" TFT color w/ full features
			, , , , , , , , , , , , , , , , , , , ,	*		
Part Number	EA9-T6CL-R	EA9-T6CL	EA9-T8CL	EA9-T10CL	EA9-T12CL	EA9-T15CL
Price	\$499.00	\$699.00	\$999.00	\$1,290.00	\$1,790.00	\$1,999.00
Display Actual Size and Type	5.7" TFT color		8.4" TFT color	10.4" TFT color	12.1" TFT color	15.0" TFT color
Display Viewing Area	4.54") [115.2 mm	(3.40" x 86.4 mm]	6.71" x 5.03" [170.4 mm x127.8mm]	8.31" x 6.24" [211.2 mm x 158.4 mm]	9.69" x 7.26" [246.0 mm x 184.5 mm]	11.97" x 8.98" [304.1 mm x 228.0 mm]
Weight	1.56 lb [710g]	1.59 lb [720g]	2.93 lb [1330g]	4.19 lb [1900g]	4.89 lb [2200g]	6.50 lb [2950g]
Screen Pixels	320 x 24	O (QVGA)		800 x 600 (SVGA)		1024 x 768 (XGA)
Display Brightness	280 nii	s (typ)	310 nits (typ)		280 nits (typ)	
LCD Panel Dot Pitch	0.18 mm x	c 0.18 mm	0.213 mm x 0.213 mm	0.264 mm x 0.264 mm	0.3075 mm x 0.3075 mm	0.297 mm x 0.297 mm
Color Scale			65,536	colors		
Backlight Average Lifetime*			50,000 hou	ırs @ 25°C		
Touch Panel Type			Four-wire an	alog resistive		
Project Memory		26	MB		82	MB
Number of Screens			Up to 999 screens – lin	nited by project memory		
Realtime Clock		Real	time Clock Built into panel	, backed up for 30 days at 2	25°C	
Calendar - Month / Day / Year			Yes - monthly deviati	on 60 sec (Reference)		
Serial Port 1			15-pin D-sub female -	RS232C, RS-422/485		
Serial Port 2	N/A					
Serial Port 3	N/A RJ-12 modular jack - RS-232C					
USB Port - Type B	USB 2.0 High speed (480 Mbps) Type B - Download/Program					
USB Port - Type A	USB 2.0 High speed (480 Mbps) Type A -for USB device options					
Ethernet Port	N/A					
Audio Line Out	N/A	3.5 mm mini jack – requires amplifier and speaker(s)				
Mic In (Future)	N/A	3.5 mm mini jack				
SD Card Slot	14.1	1 slot supports max 2 GB	(SD,) max 32 GB (SDHC)		2 slots support max 2 GB	(SD), max 32 GB (SDHC)
HDMI Video Out						es
HDMI Supported Resolution			/A		800 x 600 (SVGA)	1024 x 768 (XGA)
Supply Power	10.2-26.4 VDC			power the touch panel fror rity Protected	` ′	` ,
Power Consumption	16.1 1.30 A © 0.66 A ©		18.0 W 1.50 A @ 12VDC 0.75 A @ 24VDC	18.0 W 1.50 A @ 12VDC 0.75 A @ 24VDC	21.0 W 1.75 A @ 12VDC 0.88 A @ 24VDC	29.0 W 2.40 A @ 12VDC 1.20 A @ 24VDC
Internal Fuse (non-replaceable)	4.0) A		6.3	3 A	
Operating Temperature	0 to 50 °C (32 to 122 °F) Maximum s	surrounding air temperature	e rating: 50°C (122°F) IEC	60068-2-14 (Test Nb, The	rmal Shock)
Storage Temperature		-20 IEC 60068-	to +60°C (-4 to +140 °F) 2-2 (Test Rb. Dry Heat) IFC	IEC 60068-2-1 (Test Ab., C 60068-2-14 (Test Na, The	Cold)	
Humidity		120 00000 1		on-condensing)	ina oncony	
Environment		For use in			permitted	
Noise Immunity	For use in Pollution Degree 2 environment, no corrosive gases permitted NEMA ICS3-304 (EN61131-2.) RFI, (145MHz, 440Mhz 10W @ 10cm) Impulse 1000V @ 1mS pulse EN61000-4-2 (ESD), EN61000-4-3 (RFI) EN61000-4-4 (FTB) EN61000-4-5 (Serge) EN61000-4-6 (Conducted) EN61000-4-8 (Power frequency magnetic field immunity)					erge)
Withstand Voltage		Li		G to Power supply)	7/	
Insulation Resistance				C (FG to Power supply)		
Vibration				2-6 (Test Fc)		
Shock				-27 (Test Ea)		
Emission				adiated RF emission)		
Enclosure		NEMA		only UL50 type 4X indoor u When mounted correctly)	use only	
Agency Approvals				E157382 RoHS (2011/65/EU) dian C22.2		
* NOTE: The backlight average life	time is defined as the a	averane usane time it t			a initial hrightness. The	a lifatima of the hack-

^{*} NOTE: The backlight average lifetime is defined as the average usage time it takes before the brightness becomes 50% of the initial brightness. The lifetime of the backlight depends on the ambient temperature. The lifetime will decrease under low or high temperature usage.

eCR-28

C-more 6" TFT Color Touch Panel - Base Model

C-more EA9 series touch screen interface panel, 6-inch color TFT (5.7 inch viewable screen), base model, 64k colors, 320 x 240 pixel QVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (1) serial port, USB 2.0 Type A and B ports, supports SD memory card, no Ethernet support. Compatible with EA9-PGMSW programming software version 5.0 or later.

Part No. EA9-T6CL-R



Features

- 5.7" diagonal color TFT (Thin Film Transistor) LCD display with 64K colors
- 640 x 480 pixel resolution
- 280 NITS display brightness
- 50,000 hour average backlight half-life
- Analog resistive (1024 X 1024) touch screen allowing unlimited touch areas
- USB port B (program/download) and USB port A (USB device options)
- Serial PLC interface (RS-232/422/485)
- · One built-in SD memory card slot
- 12-24 VDC powered, 110 VAC power adapter (optional)
- 26MB project memory
- 0 to 50°C (32 to 122°F) operating temperature range
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- Slim design saves panel space
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase

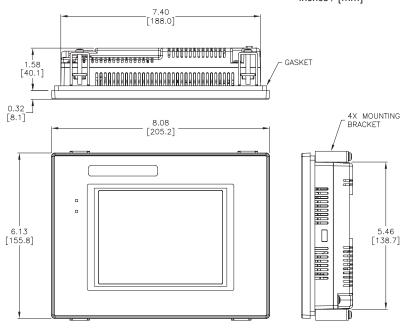


\$499.00

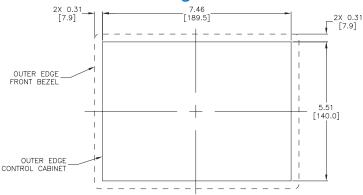
NOTE: EA9-T6CL-R does not support Ethernet.

c(VL)us C E

Dimensions inches / [mm]



Mounting Cutout



Control Systems

CLICK PLC

PLCs Overview Do-More H2 PLC

Do-More T1H

PLC DirectLOGIC PLCs Overview

DirectLOGIC DL05/06

DirectLOGIC DL105

DirectLOGIC DL205

DirectLOGIC DL305

DirectLOGIC DL405

Productivity Controller Overview

Productivity 3000

Software

C-More Micro НМІ

Industrial Marquees

Other HMI

C-more 6" TFT Color Touch Panel - Full Model

C-more EA9 series touch screen interface panel, 6-inch color TFT (5.7 inch viewable screen), 64k colors, 320 x 240 pixel QVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports SD memory card. Compatible with EA9-PGMSW programming software version 5.0 or later.

Features

- 5.7" diagonal color TFT (Thin Film Transistor) LCD display with 64K colors
- 320 x 240 pixel resolution
- 280 NITS display brightness
- 50,000 hour average backlight half-life
- Analog resistive (1024 X 1024) touch screen allowing unlimited touch areas
- USB port B (program/download) and USB port A (USB device options)
- Ethernet 10/100 Base-T port (program/download & PLC communication)
- Remote Internet Access
- Serial PLC interface (RS-232/422/485)
- · One built-in SD memory card slot
- 12–24 VDC powered, 110VAC power adapter (optional)
- Audio Line Out, stereo requires amplifier and speaker(s)
- 26MB project memory
- Data logging
- 0 to 50°C [32 to 122°F] operating temperature range
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- Slim design saves panel space
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase

Part No. EA9-T6CL

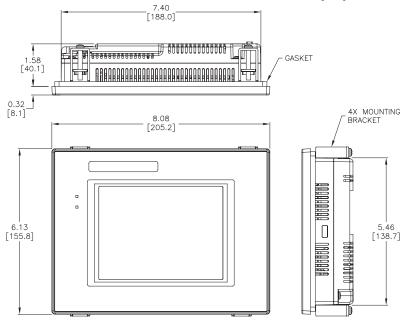


\$699.00

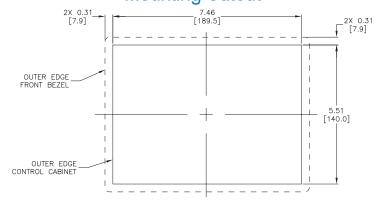
Function Available Ethernet Yes USB Yes SD Card Yes Audio Out Yes HDMI Video Out No

Dimensions

inches / [mm]



Mounting Cutout



C-more 8" TFT Color Touch Panel - Full Model

C-more EA9 series touch screen interface panel, 8-inch color TFT (8.4 inch viewable screen), 64k colors, 800 x 600 pixel SVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports SD memory card. Compatible with EA9-PGMSW programming software version 5.0 or later.

Features

- 8.4" diagonal color TFT (Thin Film Transistor) LCD display with 64K colors
- 800 x 600 pixel resolution
- 310 NITS display brightness
- 50,000 hour average backlight half-life
- Analog resistive (1024 X 1024) touch screen allowing unlimited touch areas
- USB port B (program/download) and USB port A (USB device options)
- Ethernet 10/100 Base-T port (program/download & PLC communication)
- Remote Internet Access
- · Serial PLC interface (RS-232/422/485)
- One built-in SD memory card slot
- 12-24 VDC powered, 110VAC power adapter (optional)
- · Audio Line Out, stereo requires amplifier and speaker(s)
- 26MB project memory
- · Data logging
- 0 to 50°C [32 to 122°F] operating temperature range
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- · Slim design saves panel space
- UL, cUL & CE agency approvals
- · 2-year warranty from date of purchase

Function	Available
Ethernet	Yes
USB	Yes
SD Card	Yes
Audio Out	Yes
HDMI Video Out	No

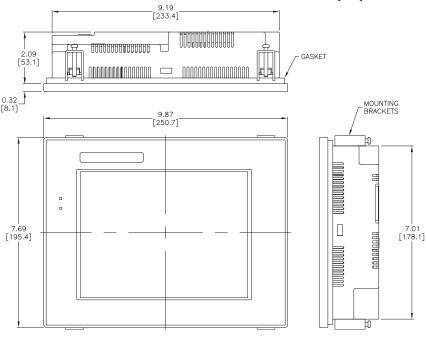
Part No. EA9-T8CL



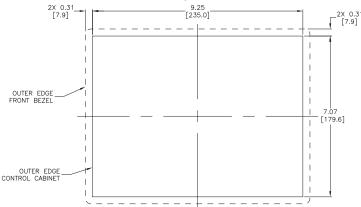
\$999.00

Dimensions

inches / [mm]



Mounting Cutout



Control Systems

CLICK PLC

PLCs Overview

Do-More H2 PLC

Do-More T1H PLC

DirectLOGIC PLCs Overview

DirectLOGIC DL05/06

DirectLOGIC DL105

DirectLOGIC DL205

DirectLOGIC DL305

DirectLOGIC DL405

Productivity Controller Overview

Productivity 3000

Software

C-More Micro HMI

Industrial Marquees

Other HMI

Communications

C-more 10" TFT Color Touch Panel - Full Model

Available

Yes

Yes

Yes

Yes

No

C-more EA9 series touch screen interface panel, 10-inch color TFT (10.4 inch viewable screen), 64k colors, 800 x 600 pixel SVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports SD memory card. Compatible with EA9-PGMSW programming software version 5.0 or later.

Function

Ethernet

USB

SD Card

Audio Out

HDMI Video Out

Features

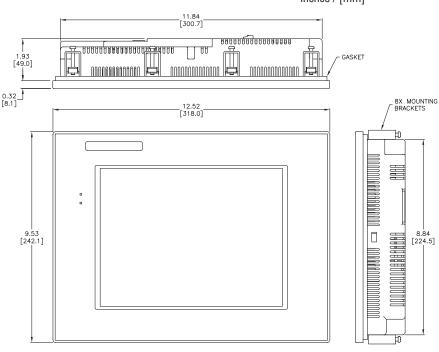
- 10.4" diagonal color TFT (Thin Film Transistor) LCD display with 64K colors
- 800 x 600 pixel resolution
- 280 NITS display brightness
- 50,000 hour average backlight half-life
- Analog resistive (1024 X 1024) touch screen allowing unlimited touch areas
- USB port B (program/download) and USB port A (USB device options)
- Ethernet 10/100 Base-T port (program/download & PLC communication
- Remote Internet Access
- Serial PLC interface (RS-232/422/485)
- · One built-in SD memory card slot
- 12-24 VDC powered, 110VAC power adapter (optional)
- · Audio Line Out, stereo requires amplifier and speaker(s)
- 26MB project memory
- · Data logging
- 0 to 50°C [32 to 122°F] operating temperature range
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- · Slim design save panel space
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase



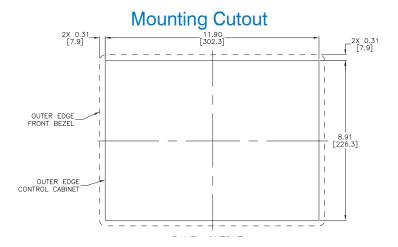
Part No. EA9-T10CL

\$1,290.00

Dimensions inches / [mm]



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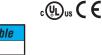


C-more 12" TFT Color Touch Panel - Full Model

C-more EA9 series touch screen interface panel, 12-inch color TFT (12.1 inch viewable screen), 64k colors, 800 x 600 pixel SVGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports (2) SD memory cards. Includes HDMI video out. Compatible with EA9-PGMSW programming software version 5.0 or later.

Features

- 12.1" diagonal color TFT (Thin Film Transistor) LCD display with 64K colors
- 800 x 600 pixel resolution
- 280 NITS display brightness
- 50,000 hour average backlight half-life
- Analog resistive (1024 X 1024) touch screen allowing unlimited touch areas
- USB port B (program/download) and USB port A (USB device options)
- Ethernet 10/100 Base-T port (program/download & PLC communication)
- Remote Internet Access
- Serial PLC interface (RS-232/422/485)
- Two built-in SD memory card slots
- 12-24 VDC powered, 110VAC power adapter (optional)
- · Audio Line Out, stereo requires amplifier and speaker(s)
- HDMI Video Out
- 82MB project memory
- Data logging
- 0 to 50°C [32 to 122°F] operating temperature range
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- · Slim design saves panel space
- UL, cUL & CE agency approvals
- · 2-year warranty from date of purchase



Function	Available
Ethernet	Yes
USB	Yes
SD Card	Yes
Audio Out	Yes
HDMI Video Out	Yes

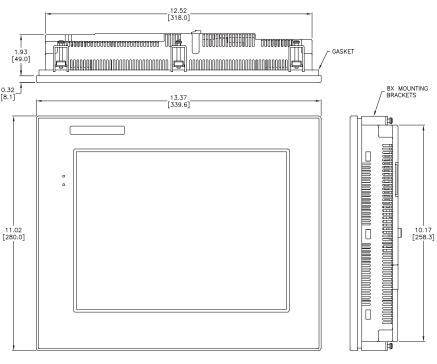
Part No. EA9-T12CL



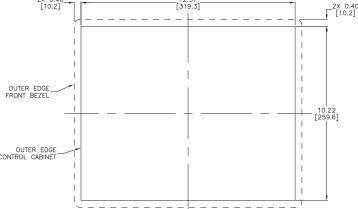
\$1,790.00

Dimensions

inches / [mm]







Control Systems

CLICK PLC

PLCs Overview

Do-More H2 PLC

Do-More T1H PLC

DirectLOGIC PLCs Overview

DirectLOGIC DL05/06

DirectLOGIC DL105

DirectLOGIC DL205

DirectLOGIC DL305

DirectLOGIC DL405

Productivity Controller Overview

Productivity 3000

Software

НМІ

Industrial Marquees

Other HM

C-more 15" TFT Color Touch Panel - Full Model

C-more EA9 series touch screen interface panel, 15-inch color TFT (15 inch viewable screen), 64k colors, 1024 x 768 pixel XGA screen resolution, 800 MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports (2) SD memory cards. Includes HDMI video out. Compatible with EA9-PGMSW programming software version 5.0 or later.

Features

- 15.0" diagonal color TFT (Thin Film Transfer) LCD display with 64K colors
- 1024x 768 pixel resolution
- 280 NITS display brightness
- 50,000 hour average backlight half-life
- Analog resistive (1024 X 1024) touch screen allowing unlimited touch areas
- USB port B (program/download) and USB port A (USB device options)
- Ethernet 10/100 Base-T port (program/download & PLC communication)
- Remote Internet Access
- Serial PLC interface (RS-232/422/485)
- Two built-in SD memory card slots
- 12-24 VDC powered, 110VAC power adapter (optional)
- · Audio Line Out, stereo requires amplifier and speaker(s)
- HDMI Video Out
- 82MB project memory
- Data logging
- 0 to 50°C [32 to 122°F] operating temperature range
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- · Slim design saves panel space
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase



Function	Available
Ethernet	Yes
USB	Yes
SD Card	Yes
Audio Out	Yes
HDMI Video Out	Yes



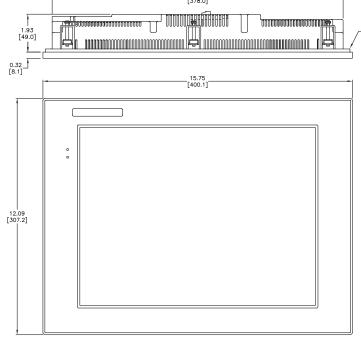
:	Pressure Trape
	330 a 721 a
	Tank Menu 255 00g 1 10g

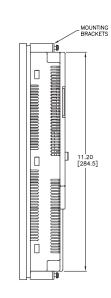
Part No. EA9-T15CL

\$1,999.00

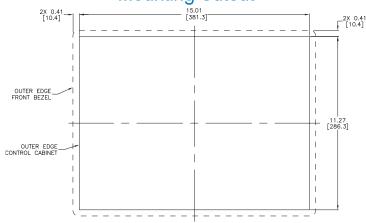
Dimensions

inches / [mm]



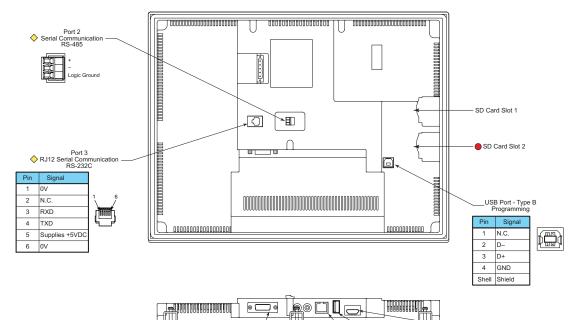


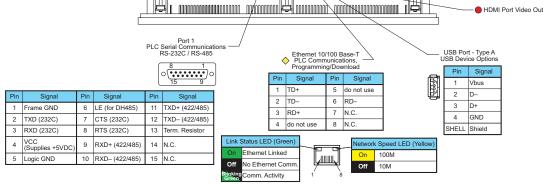
Mounting Cutout





C-more Communication Ports





Note: Device is not available on Base Feature touch panel EA9-T6CL-R

Note: Device is only available on touch panels EA9-T12CL and EA9-T15CL

Ethernet Port

The Ethernet port has several uses:

- Download program to panel
- Communicate to PLCs/PCs
- Send e-mail
- Access FTP server
- Act as a Web server
- Remote Internet Access

The Ethernet port has an RJ-45 8-wire modular connector with green and yellow LEDs.

- The yellow LED indicates network speed; off for a 10 Mbps connection and illuminated for a 100 Mbps connection.
- The green LED indicates link status and illuminates when a link is established.

Note: The base panels (-R part numbers) do not include an Ethernet port, and do not have these capabilities.

USB Port B

Program *C-more* via the USB programming port. It's fast and easy, with no baud rate settings, parity, or stop bits to worry about. We stock standard USB cables for your convenience. USB Port B can be used to upload or download projects to and from a PC.

USB Port A

The Universal Serial Bus (USB) Port A is a standard feature for all models and can be used to connect various USB HID (Human Input Device) devices to the panel, such as:

- USB pen drives, (USB-FLASH)
- USB keyboards
- USB barcode scanners
- USB card scanners

C-more can log data to the USB pen drive as well as load projects to the panel from the pen drive. You can also back up project files and panel firmware.

Sound Interface (Audio Line Out)

When attached to an amplifier and speaker(s), *C-more* can play warning sounds or pre-recorded messages such as: "conveyor is jammed". *C-more* supports WAV type files. The output is stereo.

Serial Port

Port 1 - Connect to your serial controller network via Port 1. Port 1 is a 15-pin port that supports RS-232 or RS-422/485.

Port 2 - Connect your RS-485 network via Port 2. Port 2 is provided with a 3-wire removable terminal block.

Port 3 - Connect to your RS-232C device via Port 3. Port 3 is an RJ12 connection.

HDMI Video Out

EA9-T12CL and EA9-T15CL include an HDMI Type A port to provide video output to a projector or remote monitor.

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Company

Control Systems

CLICK PLC

Do-More PLCs Overview

Do-More H2 PLC

> Do-More T1H PLC

DirectLOGIC PLCs Overview

DirectLOGIC DL05/06

DirectLOGIC DL105

DirectLOGIC DL205

DirectLOGIC DL305

DirectLOGIC DL405

Productivity Controller Overview

> Productivity 3000

Universal Field I/O

Software

HMI

C-More Micro HMI

ViewMarq Industrial Marquees

Other HMI

Communications

Book 1

onditions

C-more Communication Protocols & Cables

		Compatibility Table	
PLC Family	Model		Protocols
	MicroLogix 1000, 1	100, 1200, 1400, 1500,	
	SLC 5-/01/02/03		DH485/AIC/AIC+
	MicroLogix 1000, 1 SLC 5-/03/04/05	100, 1200, 1400 and 1500	DF1 Half Duplex; DF1 Full Duplex
		npactLogix™, FlexLogix™	Dri Hali Duplex, Dri Fuli Duplex
	PLC-5	Tipadicogii , Floxcogii	DF1 Full Duplex
		actLogix, FlexLogix - Tag Based	DF1 Half Duplex; DF1 Full Duplex
Allen-Bradley	ControlLogix, Comp	pactLogix, FlexLogix - ing	EtherNet/IP Server
•		nactLogix, FlexLogix - Tag Based	
	Micrologix 1100, 14	100 & SLC5/05, all via native	
	Ethernet port	100 1200 1400 1500 9	EtherNet/IP Client
	SLC 5-03/04/05, all	100, 1200, 1400,1500 & via ENI Adapter	
	Micro 800 series		Modbus RTU
Madhua DTU			Modbus TCP
<u>Modbus RTU</u> Modbus TCP/IP	Modbus RTU device Modbus TCP/IP device		Modbus RTU Modbus TCP/IP
<u>Moubus TOF/IF</u> GE		90, VersaMax Micro	SNPX
<u> </u>	FX Series	o o o o o o o o o o o o o o o o o o o	FX Direct
Mitsubishi	Q02, Q02H, Q06H,	Q12H, Q25H	Q CPU
เกเเงนมเงเท	Q, QnA Serial		QnA Serial
	Q, QnA Ethernet	n	QnA Ethernet
Omron	C200 Adapter, C500 CJ1/CS1 Serial, CJ		Host Link FINS
Madiaan			Modbus RTU
Modicon		113 CPU, AEG Modicon Micro 1-xx, 411-xx, 512-xx, 612-xx	
Siemens	\$7-200 CPU, RS-48		PPI
	Ethernet	00 CPU, S7-400, S7-1200 CPU;	Ethernet ISO over TCP
Productivity	all		AutomationDirect P3000 Serial
Series	u		AutomationDirect P3000 Ethernet
Do-more	all		Do-more Serial Do-more Ethernet
CLICK	all		AutomationDirect Modbus (CLICK)
<u>olion</u>			K-Sequence
	DL05/DL06	all	Direct NET
	DLUJ/DLUU	110 50014/10 50014400	Modbus (Koyo addressing)
	DL105	H0-ECOM/H0-ECOM100	Direct LOGIC Ethernet K-Sequence
	DE103	D2-230	K-Sequence
			K-Sequence
		D2-240	Direct NET
			K-Sequence
	DL205	D2-250/D2-250-1/D2-260	Direct NET
		DO 040/DO 050 4/DO 000	Modbus (Koyo addressing)
		D2-240/D2-250-1/D2-260 using D2-DCM	Direct NET Modbus (Koyo addressing)
		H2-ECOM/H2-ECOM100	Direct LOGIC Ethernet
		D3-330/330P	Direct NET
		(Requires the use of a Data Communications Unit)	DIFECTIVE
		D3-340	Direct NET
DirectLOGIC	DL305	D0 050	K-Sequence Direct NET
		D3-350	Modbus (Koyo addressing)
			Direct NET
		D3-350 using D3-DCM	Modbus (Koyo addressing)
		D4-430	K-Sequence
		טיד דע	Direct NET
		D4-440	K-Sequence
			Direct NET K-Sequence
	DL405	D4-450	Direct NET
		= : :=#	Modbus (Koyo addressing)
		All with D4-DCM	Direct NET
			Modbus (Koyo addressing)
		H4-ECOM/H4-ECOM100	Direct LOGIC Ethernet
	LIO ME DI COTTI	0 D-/1: . //= 0	This is 0 Do A.A. III. Date:
	H2-WinPLC (Think Studio any version	& Do) Live V5.2 or later and	Think & Do Modbus RTU (serial port)

Cable Description	Cable Part Number	Price
AutomationDirect Productivity Series, Do-more, CLICK, Direct LOGIC PLC RJ-12 port, DL05, DL06, DL105, DL205, D3-350, D4-450 & H2-WinPLC (RS-232C)	EA-2CBL	\$20.00
Direct LOGIC (VGA Style) 15-pin port, DL06, D2-250 (250-1), D2-260 (RS-232C)	EA-2CBL-1	\$20.00
Direct LOGIC PLC RJ-11 port, D3-340 (RS-232C)	EA-3CBL	\$20.00
Direct LOGIC DL405 PLC 15-pin D-sub port, DL405 (RS-232C)	EA-4CBL-1	\$20.00
Direct LOGIC PLC 25-pin D-sub port, DL405, D3-350, DL305 DCU and all DCM's (RS-232C)	EA-4CBL-2	\$20.00
Allen-Bradley MicroLogix 1000, 1100, 1200, 1400 & 1500 (RS-232C)	EA-MLOGIX-CBL	\$30.00
Allen-Bradley SLC 5-03/04/05 ControlLogix, CompactLogix, FlexLogix, DF1 port (RS-232C)	EA-SLC-232-CBL	\$20.00
Allen-Bradley PLC-5 DF1 port (RS-232C)	EA-PLC5-232-CBL	\$20.00
Allen-Bradley SLC 500 DH485 port (RS-485A)	EA-DH485-CBL	\$20.00
GE 90/30, 90/70, Micro 90, VersaMax Micro 15-pin D-sub port (RS-422A)	EA-90-30-CBL	\$20.00
MITSUBISHI FX Series 25-pin port (RS-422A)	EA-MITSU-CBL	\$20.00
MITSUBISHI FX Series 8-pin mini-DIN (RS-422A)	EA-MITSU-CBL-1	\$20.00
OMRON Host Link C200 Adapter, C500 (RS-232C)	EA-OMRON-CBL	\$20.00

Example Cables:

EA-2CBL



EA-2CBL-1



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C-more Computer Programming Connections

Using the C-more Programming Software EA9-PGMSW for project development, the USB Programming Cable touch panel can be connected to a PC (personal computer) in one of several ways:

- Connect a USB Programming Cable such as (USB-CBL-AB15) from a USB port type A on the PC to the USB type B programming port on the C-more touch panel. The USB connection is for direct connection only and does not support USB hubs.
- Connect the *C-more* touch panel to a PC with a Cat5 Ethernet cable via an Ethernet switch. Multiple panels can be programmed in this configuration.

Following are the minimum system requirements for running C-more Programming Software, p/n EA9-PGMSW, on a PC:

- USB or Ethernet connection to touch panel (cables sold separately).
- Operating System Windows 7 (Pro, Ultimate, 32 or 64-bit) or Windows 8 (Pro, Ultimate, 32 or



NOTE: Regarding Ethernet access to a C-more panel.

If you intend to take advantage of the methods of remote access to the panel, including the web server, PC remote access, FTP, iPhone or iPad app, you need to consider the security exposure in order to minimize the risks to your process and your C-more panel.

Security measures may include password protection, changing the ports exposed on your network, including a VPN in your network, and other methods. Security should always be carefully evaluated for each installation.



Part No. USB-CBL-AB15 \$22.50

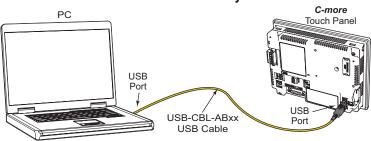
Other lengths available see USB-CBL-AB3, USB-CBL-AB6, USB-CBL-AB10

Stride™ **Ethernet Switch**

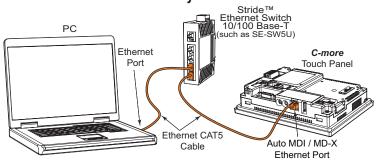


Part No. SE-SW5U \$99.00

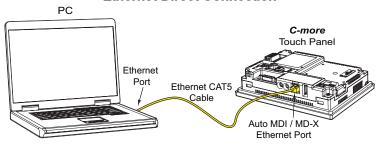
USB Connectivity



Ethernet Connectivity via a Hub or Switch



Ethernet Direct Connection



Control Systems

CLICK PLC

PLCs Overview

Do-More H2 PLC

Do-More T1H

DirectLOGIC PLCs Overview

DirectLOGIC DL05/06

DirectLOGIC DL105

DirectLOGIC DL205

DirectLOGIC DL305

DirectLOGIC

Productivity Overview

Software

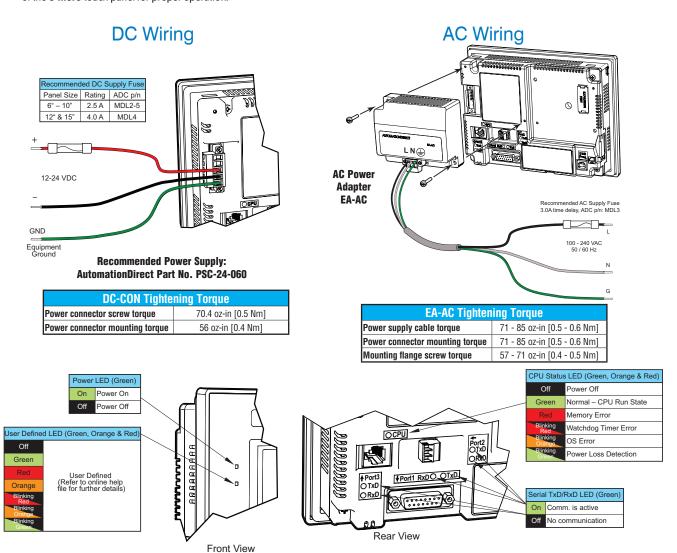
HMI

Industrial Marquees

C-more Power Connection Wiring

Providing Power to the Touch Panel

- Connect a dedicated 12–24 VDC Class 2 power supply to the DC connector on the rear of the *C-more* touch panel. Connect the ground terminal to a proper equipment ground.
- or, install a C-more AC Power Adapter (EA-AC) to the rear of the touch panel and connect an AC voltage source of 100-240 VAC, 50/60 Hz, to its AC connector.
- then, turn on the power source and check the LED status indicators on the front and rear of the *C-more* touch panel for proper operation.



<u>WARNING:</u> To minimize the risk of potential safety problems, you should follow all applicable

lems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to

personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call us at 1-800-633-0405 or 770-844-4200.

This publication is based on information that was available at the time it was printed.

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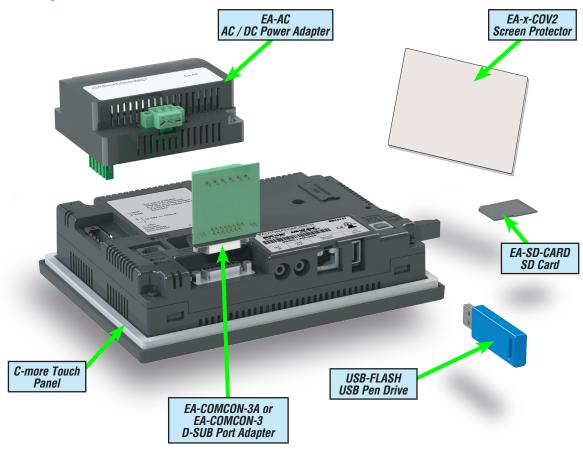
C-more Accessories

Accessories

The *C-more* touch panels can be enhanced with the accessories below:

Part Number	Description	Price
EA-AC	AC/DC Adapter for <i>C-more</i> EA7 and EA9 series touch panels; powered from a 100-240 VAC, 50/60 Hertz power source. Provides 24VDC at 1.5A. Power Fault features help protect data being logged to Compact Flash or SD card during power failures. <i>C-more</i> EA7 series panels must have firmware version 1.21 Build 6.18E or higher for proper operation.	\$74.00
EA-6-COV2	Non-glare protective overlay, 6-inch, protects <i>C-more</i> touch screen and helps reduce glare from external light sources. Compatible with <i>C-more</i> EA7 and EA9 series and <i>C-more</i> Micro-Graphic 6-inch panels. Package of 3.	\$37.00
EA-8-COV2	Non-glare protective overlay, 8-inch, protects <i>C-more</i> touch screen and helps reduce glare from external light sources. Compatible with <i>C-more</i> EA7 and EA9 series 8-inch panels. Package of 3.	\$40.00
EA-10-COV2	Non-glare protective overlay, 10-inch, protects <i>C-more</i> touch screen and helps reduce glare from external light sources. Compatible with <i>C-more</i> EA7 and EA9 series 10-inch panels. Package of 3.	\$45.50
EA-12-COV2	Non-glare protective overlay, 12-inch, protects <i>C-more</i> touch screen and helps reduce glare from external light sources. Compatible with <i>C-more</i> EA7 and EA9 series 12-inch panels. Package of 3.	\$46.50
EA-15-COV2	Non-glare protective overlay, 15-inch, protects <i>C-more</i> touch screen and helps reduce glare from external light sources. Compatible with <i>C-more</i> EA7 and EA9 series 15-inch panels. Package of 3.	\$55.00
EA-COMCON-3	DSUB port adapter, 15-pin to 6-terminal RS-422/485, right angle connector, plugs into the 15-pin serial port on rear of touch panel to allow wire terminal connections for an RS-422/485 communication cable. Compatible with <i>C-more</i> EA7 series, EA9-T6CL(-R), and C-more Micro-Graphic 4 or 6-inch panels.	\$42.00
EA-COMCON-3A	DSUB port adapter, 15-pin to 6-terminal RS-422/485, straight connector, plugs into the 15-pin serial port on rear of touch panel to allow wire terminal connections for an RS-422/485 communication cable. Compatible with <i>C-more</i> EA9 series panels, <i>C-more</i> Micro EA3-T8CL and EA3-T10CL panels and EA1-S3x with EA1-MG-SP1. Not compatible with EA9-T6CL(-R) panels.	\$19.00
EA-SD-CARD	SD memory card for non-volatile storage, 2GB industrial grade. 70 degrees C maximum operating temperature makes it suitable for data logging in industrial applications. Recommended for the <i>C-more</i> EA9 series touch panels.	\$99.00
USB-FLASH	USB Flash drive, SanDisk, 4GB (SanDisk P/N SDCZ50-004G-A46). Recommended for use with the <i>C-more</i> touch panels and Productivity3000 controllers.	\$20.00

Accessory Locations



Information

Control Systems Overview CLICK PLC

Do-More PLCs Overview

Do-More H2 PLC

Do-More T1H PLC

DirectLOGIC PLCs Overview

DirectLOGIC DL05/06

DirectLOGIC DL105

DirectLOGIC

DirectLOGIC DL305

DirectLOGIC DL405

DL405

Productivity Controller Overview

Productivity 3000

Universal Field I/O

Software

C-More

C-More Micro HMI

ViewMarq Industrial Marquees

Other HMI

Communication

Appendix

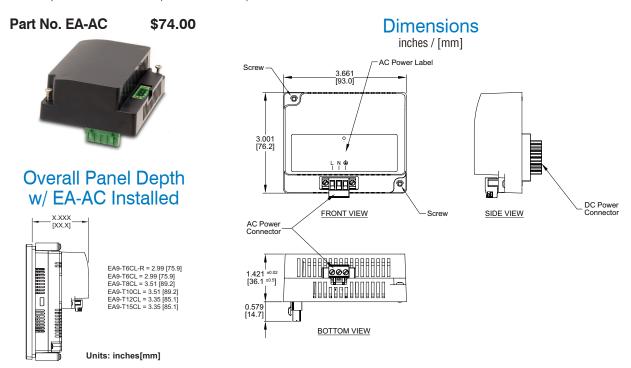
Terms and

C-more Accessories

AC/DC Power Adapter

The optional *C-more* AC/DC Power Adapter can be used to power the *C-more* touch panels from a 100-240 VAC, 50/60 Hertz, voltage source. The adapter provides 24 VDC @ 1.5 A to the touch panel's DC power connector and can be conveniently secured to the touch panel with two captive screws.

The adapter provides a power loss signal to the touch panel that causes the touch panel to stop writing data to SD memory devices providing a controlled shutdown for increased data logging reliability.



AC/DC Power Adapter Specifications				
Part Number	EA-AC	Short Circuit Protection	85VAC: 2.6 A, 100VAC: 2.8 A, 264VAC: 3.9 A	
Input Voltage & Frequency	100-240 VAC +10% -15%; 50/60 Hertz	Static Electricity Discharge Resistance	Compliant with IEC61000-4-2, Contact: 4 kV, Air: 8 kV	
Wire	24-14 AWG, 60 / 75°C Copper. Tighten to 72 oz-in (0.5 Nm)	Agency Approvals	UL508 - UL Recognized for use with C-more panels, cUL, CE, EMC EN61132-2	
Permissible Momentary Power Failure	Within 40ms	Environment	For use in pollution degree 2 environment	
Input Power	68VA or less	Grounding	Ground resistance: less than 100 ohm	
Operating Temperature Range	0°C to 50°C [32 to 122°F] Maximum surrounding temperature rating, 50°C	Dimensions - inches [mm]	3.00" (H) x 3.66" (W) x 1.42" (D) [76.2 mm x 93.0 mm x 36.1 mm] (Excluding DC Power Connector.)	
Storage Temperature Range	-20 to 60°C [-4 to 140°F]	Weight	6.13 oz. [175 g]	
Operating & Storage Humidity	10-85% RH (non-condensing)	Cooling Method	Natural convection	
Noise Immunity	1000VAC p-p (Pulse width 1 µs, rise time: 1 ns), with proper ground connection on AC terminal block.	Removable AC Power Connector (included)	EA-AC-CON or DECA Switchlab MC101-508-03G Secured with (2) captive M2.5 screws, torque to 70 oz-in [0.5 Nm]	
Hi-Pot	1000VAC, 1 minute, with proper ground connection on AC terminal block.	Output Voltage and Ripple	21.6 - 26.4 VDC, Ripple < 100 mV p-p	
Insulation Resistance	500VDC, 10 M ohm or above, with proper ground connection on AC terminal block.	Output Current	Maximum 1.5 A	
Vibration	Compliant with IEC61131-2	Inrush Current	For 100VAC: 15A, 3ms or less For 240VAC: 20A, 3ms or less	
Shock	Pulse shape: Sine half wave, Peak acceleration: 147 m/s² (15 G), X, Y, Z: 3 directions, 2 times each	Mounting to Touch Panel	Secure with (2) spring loaded captive M3-20 screws, torque to 50 oz-in [0.35 Nm]	
Thermal Protection	140°C [284°F], with autorecovery	Recommended External Fuse	3.0A (ADC p/n: MDL3)	

Automation Direct

Control Systems Overview

CLICK PLC

Do-More PLCs Overview

Do-More H2 PLC

Do-More T1H PLC

DirectLOGIC PLCs Overview

DirectLOGIC DL05/06

DirectLOGIC DL105

DirectLOGIC DL205

DirectLOGIC DL305

DirectLOGIC DL405

Productivity Controller Overview

Productivity 3000

Software

ViewMarq Industrial Marquees

Other HMI

Communications

C-more Accessories

SD Card

Part No. EA-SD-CARD



\$99.00

SD memory card for non-volatile storage, 2GB industrial grade. 70 degrees C maximum operating temperature. Recommended for the *C-more* EA9 series touch panels. The SD card is the fastest option for writing data. If logged data is saved to external memory, AutomationDirect recommends using an EA-SD-CARD.

EA-SD-CARD Specifications			
Operating Temperature	0 to 70°C (32 to 158°F)		
Humidity	20 to 85% (Non-condensing)		
Capacity	2GB		
Speed Modes	High-Speed Normal-Speed		
Interface	SD Memory Card Specification Ver. 3.0		
Speed Class	Class 6		

USB Pen Drive

Part No. USB-FLASH



\$20.00

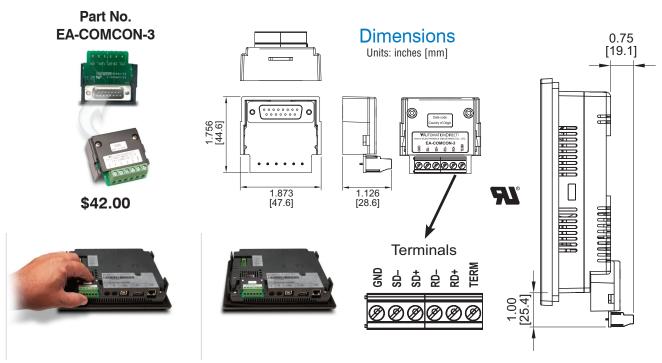
USB flash drive for non-volatile storage, 4GB. Recommended for the *C-more* EA9 series touch panels.

Book 1 (14.2)

C-more Accessories

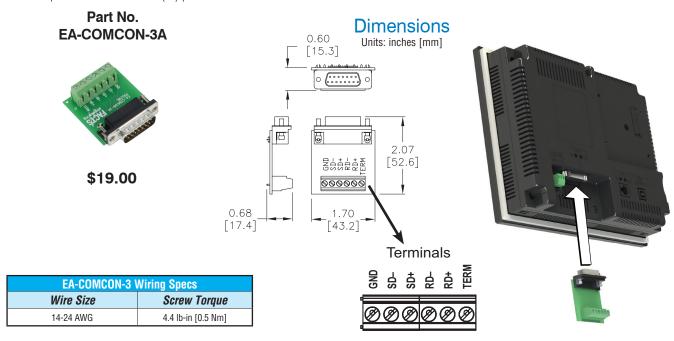
D-SUB 15-pin to Terminal Block Adapter - Right Angle

The EA-COMCON-3 adapter plugs into the 15-pin serial port on the rear of a panel to allow wire terminal connections for an RS-422/RS-485 communication cable. Compatible with all *C-more* EA7 series panels, EA9-T6CL(-R) panels and *C-more* Micro 4" and 6" panels. UL Recognized



D-SUB 15-pin to Terminal Block Adapter - Straight Through

The EA-COMCON-3A adapter plugs into the 15-pin serial port on the rear of a panel to allow wire terminal connections for an RS-422/RS-485 communication cable. Compatible with C-more EA9 series panels, C-more Micro EA3-T8CL and EA3-T10CL panels and EA1-S3x with EA1-MG-SP1. Not compatible with EA9-T6CL(-R) panels.



Control Systems

CLICK PLC

PLCs Overview

C-more Accessories

Non-glare Screen Covers (in packages of 3)

The non-glare screen covers are protective overlays used to protect the touch screen while helping to reduce the glare from external light sources.

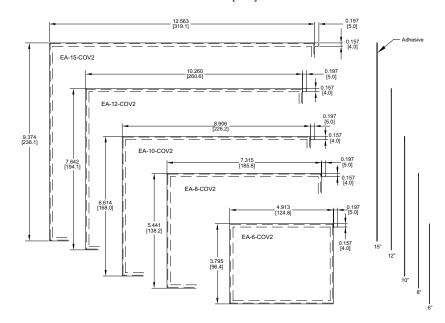
Part Nos. EA-6-COV2, EA-8-COV2, EA-10-COV2, EA-12-COV2 and EA-15-COV2

Dimensions

inches / [mm]



EA-6-COV2 \$37.00 EA-8-COV2 \$40.00 **EA-10-COV2** \$45.50 EA-12-COV2 \$46.50 **EA-15-COV2** \$55.00



Installation











NOTE: The Protective Cover ships with a thin protective sheet on the face of the cover that needs to be carefully removed. If your panel is not clear, the protective sheet may not have been removed.

Do-More H2 PLC

Do-More T1H

DirectLOGIC PLCs Overview

DirectLOGIC DL05/06

DirectLOGIC DL105

DirectLOGIC DL205

DirectLOGIC DL305

DirectLOGIC DL405

Productivity Controller Overview

Productivity 3000

HMI

Industrial Marquees

Other HMI

C-more Replacement Parts

The optional replacement parts can be used to replace damaged, worn or lost *C-more* components.

Replacement parts at a glance:

Part Number	Price		Description
EA9-BRK	\$27.00		Panel mounting brackets, replacement, for C-more EA9 series touch panels. Package of 8 brackets and screws.
EA9-LBL	\$24.00		Blank label insert for front bezel, replacement, for C-more EA9 series touch panels. Package of 10.
EA9-3TB	\$9.00	EGI-CL.	3-pole terminal block, replacement, for 3-wire RS485 communications port on C-more EA9 series panels. Package of 2.
EA-DC-CON	\$14.00		5-terminal DC power connector, replacement, for C-more EA7 and EA9 series touch panels
EA-AC-CON	\$7.50		3-terminal AC power connector, replacement, for C-more EA7 and EA9 series touch panels
EA9-15-GSK	\$25.00		Panel mounting gasket, replacement, for C-more EA9-T15CL 15-inch touch panel, NEMA 4/4X
EA9-12-GSK	\$20.00		Panel mounting gasket, replacement, for C-more EA9-T12CL 12-inch touch panel, NEMA 4/4X
EA9-10-GSK	\$19.00		Panel mounting gasket, replacement, for C-more EA9-T10CL 10-inch touch panel, NEMA 4/4X
EA9-8-GSK	\$17.00		Panel mounting gasket, replacement, for C-more EA9-T8CL 8-inch touch panel, NEMA 4/4X
EA9-6-GSK	\$15.00		Panel mounting gasket, replacement, for C-more EA9-T6CL(-R) 6-inch touch panels, NEMA 4/4X

C-more Operator Touch Panels