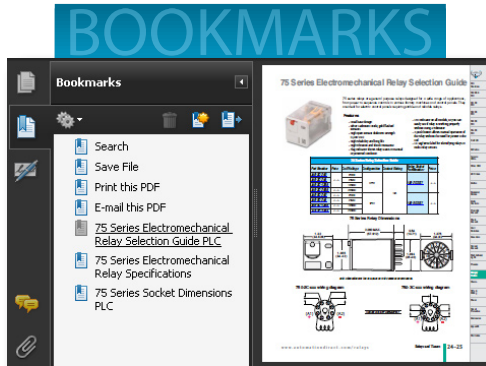


**AUTOMATIONDIRECT**.com

**C-more<sup>®</sup>**  
micro

## 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

Up-to-date price list:

[www.automationdirect.com/pricelist](http://www.automationdirect.com/pricelist)

FREE Technical Support:

[www.automationdirect.com/support](http://www.automationdirect.com/support)

FREE Videos:

[www.automationdirect.com/videos](http://www.automationdirect.com/videos)

FREE Documentation:

[www.automationdirect.com/documentation](http://www.automationdirect.com/documentation)

FREE CAD drawings:

[www.automationdirect.com/cad](http://www.automationdirect.com/cad)



# Micro panels...MEGA value!



## Do more for LESS with C-more Micro Panels!

C-more Micro panels are one of the most popular and reliable, value-packed operator interfaces in the industrial market today. No matter the budget or system size, we have a C-more Micro operator panel for the job. And all of our panels come with FREE programming software that includes a project simulator and many other time saving features. You'll always get the biggest bang for your buck with C-more Micro.

The 3-inch STN monochrome versions offer twelve selectable background colors that allow you to use color to convey meaning.

The 4-inch and 6-inch TFT full color versions offer up to 32,767 colors for more vibrant and colorful project screens.

Micro touch panel and non-touch panel versions available

- The 3-inch cost-conscious panels display standard or high contrast STN monochrome graphics with 12 selectable background colors
- 32K color TFT displays are available in 4-inch and 6-inch models
- Ethernet communication built in on 3 and 4-inch EA3 models, optional Ethernet communications module (EA-ECOM) available for 6-inch EA3 models
- FREE programming software with simulator
- Full 2-year product warranty



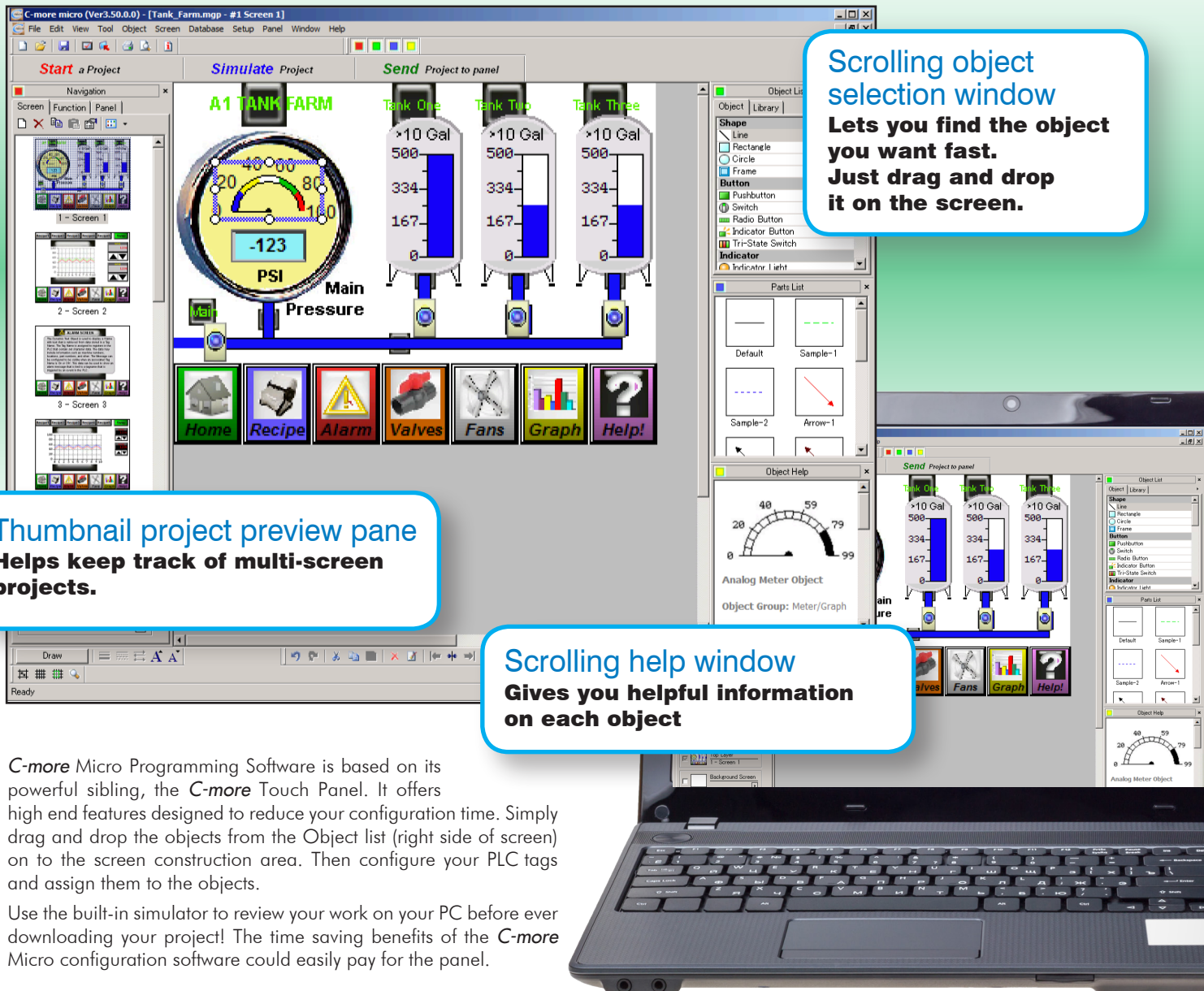
# FREE Configuration Software with Simulator

## Built-in project simulator

- **Runs your project on your PC**
- **Test all of your screens before downloading**
- **Time savings pays for the panel!**

## Built-in user object/screen libraries

**Save time by re-using your custom objects and screens.**



**Start a Project** | **Simulate Project** | **Send Project to panel**

**Navigation**

- 1 - Screen 1
- 2 - Screen 2
- 3 - Screen 3

**Object List**

- Shape
  - Line
  - Rectangle
  - Circle
  - Frame
- Button
  - Pushbutton
  - Switch
  - Radio Button
  - Indicator Button
  - Tri-State Switch
- Indicator
  - Indicator 1 left

**Parts List**

- Default
- Sample-1
- Sample-2
- Arrow-1

**Object Help**

Analog Meter Object

Object Group: Meter/Graph

**Scrolling object selection window**  
**Lets you find the object you want fast.**  
**Just drag and drop it on the screen.**

**Thumbnail project preview pane**  
**Helps keep track of multi-screen projects.**

**Scrolling help window**  
**Gives you helpful information on each object**

**C-more Micro Programming Software** is based on its powerful sibling, the **C-more Touch Panel**. It offers high end features designed to reduce your configuration time. Simply drag and drop the objects from the Object list (right side of screen) on to the screen construction area. Then configure your PLC tags and assign them to the objects.

Use the built-in simulator to review your work on your PC before ever downloading your project! The time saving benefits of the **C-more Micro** configuration software could easily pay for the panel.

Check out [www.C-moreMicro.com](http://www.C-moreMicro.com) for a demo.

**Learn more! Go to:**

**[C-moreMicro.automationdirect.com](http://C-moreMicro.automationdirect.com)**

for detailed specifications, a virtual tour of the product, programming examples, newest communication drivers...

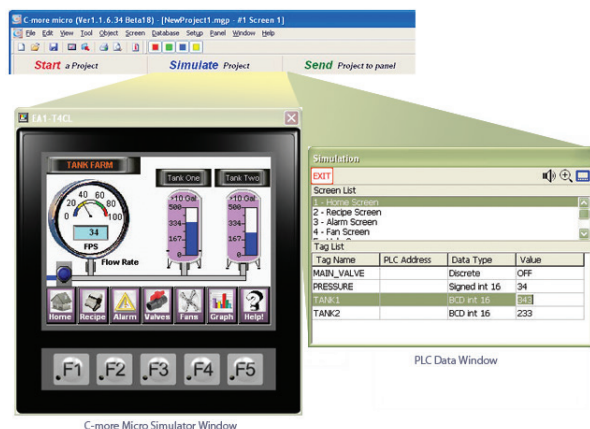


# C-more Micro Productivity Tools

## Built-in Project Simulator

The simulator is a real productivity booster that saves hours of trial-and-error programming and testing, with no need for a panel or controller.

The simulator pops up on your PC screen, along with the simulated controller Data Window. Use your mouse to activate objects on the simulated project screens while monitoring the simulated controller values in the data window. Another option is to adjust simulated values directly in the data window, and see how your **C-more** Micro screens will react in the simulator window.



## Build and Save Custom Objects

Store your objects in the library for fast and easy re-use.

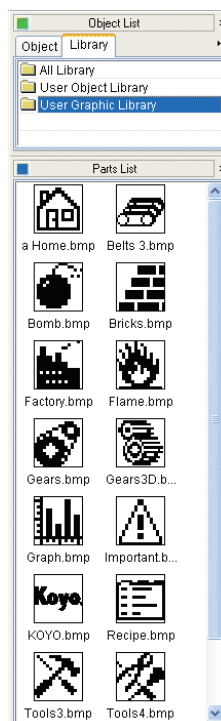
Once you've built a custom object, just right-click on it and select "Object -> Library"

You're then prompted to give your object a name, and you can choose whether to save the PLC tags with the object.

Drag and drop objects from the library onto the workspace.

It's easy to re-use an object. Just drag it from the library and drop it on the desired screen. Then double click it if you want to edit the tags or other options.

Download more objects and graphics from our online library at [www.c-moremicro.com](http://www.c-moremicro.com)



## Lots of memory lets you get creative

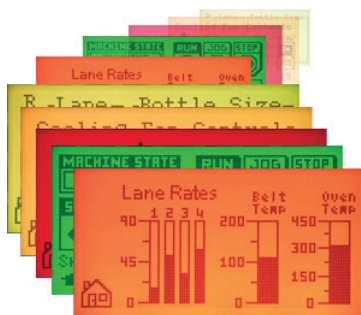
### Screens

While many text panels are limited to 256 or fewer messages, **C-more** Micro allows up to 999 screens for every project. Create all the screens you need to control your machine or process.

### Memory

Ample user memory allows tons of objects and graphics on your screens.

- Pictures and icons convey information faster than text
- Use bar graphs and indicator graphics to enhance comprehension



**Note:** Keep in mind that depending on the complexity of your screens, the limiting factor could be the 999 addressable screens or the panel's memory.

It's easy to track the size of your project:

When you download a project to a **C-more** Micro panel, the download dialog box shows you the current project size.

- If your project is large you may want to download only the Runtime File and the controller driver file, but not the entire Project File.
- If you download the Project File, you will be able to upload the entire project from the panel at a later date.

## Overlapping Objects

Our customers loved overlapping objects on the larger **C-more** panels, and we knew you would expect the same capabilities with **C-more** Micro. Here are some examples of overlapping objects:

Several "Text" objects and a "Bar Graph" object overlapped on a "Rectangle" object.

"Dynamic Bitmap" object overlapped on an "Indicator Light" object



"Static Bitmap" object overlapped on a "Screen Change Pushbutton" object

## Download the Software!

**C-more** Micro Programming Software can be downloaded at no charge from [AutomationDirect.com](http://AutomationDirect.com), or a CD version may be purchased for \$25 (EA-MG-PGMSW). A USB port on your PC is required to connect to the **C-more** Micro panel.

**\*\*This software can only be used to program the C-more Micro panels, not the C-more 6" through 15" touch panels.**



# C-more Micro Productivity Tools

## Alarm Control Setup

The Alarm Control Setup feature makes configuring alarms fast and easy. Use a controller tag to activate up to 16 alarm conditions with the built-in Alarm Control feature. Choose from:

- Beep
- LED Blink
- Change Backlight Color
- Blink Selectable Colors
- Show a Banner Message

Alarm Control Setup					
Event			Action		
No.	Alarm Notification	Beep	LED Blink	Backlight	Blink
01	[PUMP1TEMP] = 1	ON	F1	Current	Yellow
02	[PUMP2TEMP] = 1	ON	F1		
03	[PUMP3TEMP] = 0	ON	F1		
04	[WASHTANK1_OVR]	ON			
05	[WASHTANK2_OVR]	OFF			
06	[WASHTANK1_LO]	OFF		Current	Red
07	[WASHTANK2_LO]	OFF		Current	Red
08	[VALVE1_LOWAIR]	OFF			
09	[VALVE2_LOWAIR]	OFF			
10					
11					
12					
13					
14					
15					
16					

Use the built-in alarm feature above or create a simple Alarm Screen (right) in conjunction with the message database to display HUNDREDS of different alarm messages.

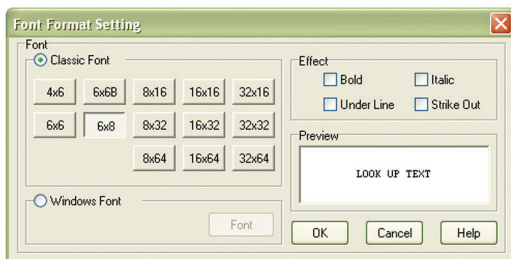
Look-up Text Object



## Use any font on your PC

C-more Micro offers 10 built-in fixed-width "Classic" fonts and allows the use of any Windows fonts present on the programming computer.

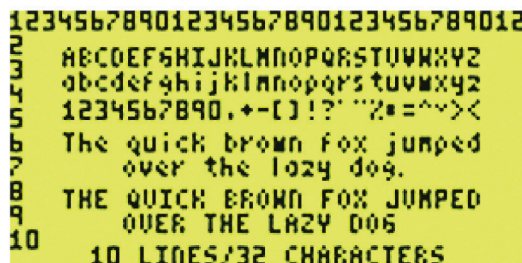
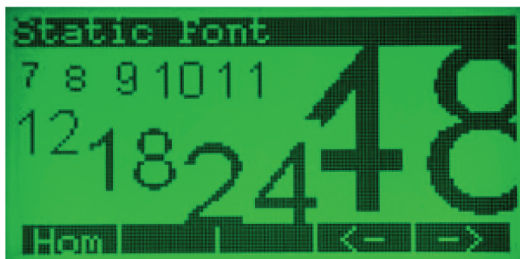
- Fixed-width fonts allow maximum lines and characters
- Windows fonts can be scaled to many sizes

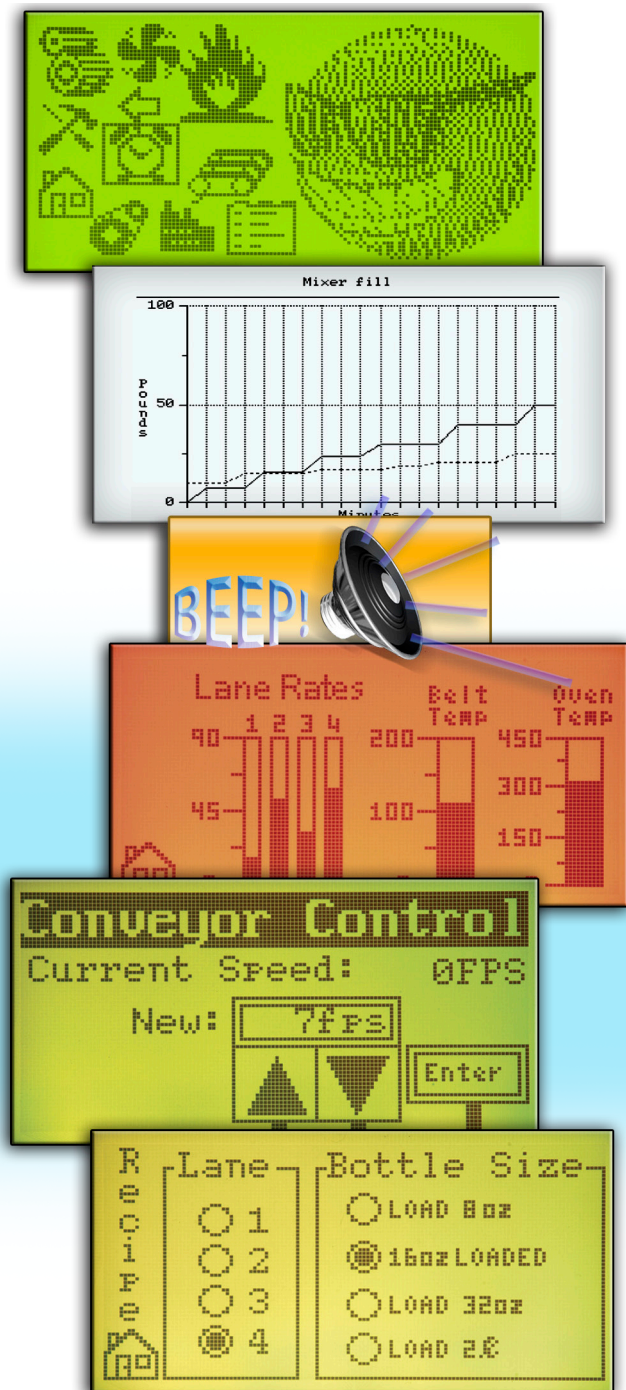


Windows fonts can be sized with their familiar "point" values.



For 3-inch units, the "4x6" fixed font allows a maximum of 32 characters per line and 10 lines for static text. The 6-inch units support up to 53 lines with 60 characters per line in portrait mode, or 40 lines with 80 characters per line in landscape mode.





## Bitmap graphics

- Use bitmap images of pushbuttons, switches, indicators, or your company logo
- Use our library of bitmaps
- Create your own library of bitmaps

## Real-time graph

- Each pen displays the value of a single PLC memory location. Values are refreshed by either time or a trigger tag.
- One or two pens can be displayed on the STN models
- Up to eight pens can be displayed on the TFT models
- Up to 24 values can be displayed for each pen

## Controlled beep

- Beep to indicate an alarm
- Beep for a special message
- Beep to verify when button is pressed

## Bar graphs

- Vertical, horizontal, thin, wide, multiple
- Combine with a numeric display for digital readout

## Data entry

- Pop-up numeric keypad on the screen
- Increment/Decrement a value by touching arrows
- Add an optional keypad bezel

## Recipes

Each recipe button transfers up to 99 values from PLC source registers to PLC destination registers and/or from the recipe table to PLC destination registers.

## Change background colors

The screen colors are programmable! Use them to convey meaning - see a red alarm screen from across the room, or use a yellow screen as a caution.

All 3in STN models support various user controlled backlight colors that can be used to get the operators attention.

These colors will vary based on the model:

**White, Green, Red, Amber, Lime, Yellow, Pink, Emerald**

TFT models allow 32K colors to flash for the background.

## Alarm feature

**C-more** Micro has an Alarm action that can control:

- Backlight color change/flash
- Function Key LED flash
- Beep activation
- Custom alarm banner display
- Up to 16 configurable alarm actions





## Support you can rely on!

Our HMI's have been an important part of the automation industry for over 10 years. And whether or not you're purchasing a new EA3 panel or you're an existing EA1 customer, you can count us to offer the support you need long into the future.

## What our customers think...

C-more Micro family average review scores from our web store:

[Read Reviews](#) [Write a Review](#)

### Averages for C-more Micro-Graphic Panels

Overall Score (4.6)  
(99 reviews)

Quality:

Ease of Use:

Value:



"I have used the EA3-T6CL with a D0-06DR PLC for several different projects and have been very pleased with the quality and the ease of use of the software. I will definitely be buying more in the future."

Rob in EASTON, PA



"I have used the 3" C-More Micro in my products for over 4 years without any issues. We build pre packaged automation equipment for the oil and gas industry and our products are located in areas with a wide range of environments. We have over 20 of these HMI's that have stood the test of time and the elements."

Francis in WICHITA, KS



"Great product. I bought it for a simple applications of displaying error messages from the PLC but turned out to be more useful than just that and ended up adding more functionality and replacing physical buttons for in screen ones, passwords, and even numeric inputs to modify timer values were added. Definitely a versatile and great value product."

Juansystem05 in COLUMBUS, NM



## EA3 Reduced Models

New EA3 Series starting at **\$98**

**NEW!**



### EA3-S3ML-RN **\$98**

- Non-touch
- NEMA1 indoor rating -ships without gasket. Optional gasket can be purchased for NEMA4 indoor rating
- One RJ12 serial port for programming and PLC connection
- Supports only AutomationDirect/Modbus PLC protocols
- No expansion/option module support

### EA3-S3ML-R **\$146**

- Touch screen
- NEMA4, 4x indoor rating
- One RJ12 serial port for programming and PLC connection
- Supports only AutomationDirect/Modbus PLC protocols
- No expansion/option module support



**EA3-S3ML**

## 3-inch STN Monochrome Panel

Ethernet-ready panel for only **\$198**

- Touch screen
- Built-in Ethernet port
- Two built-in serial ports
- Micro-USB programming port
- 5 Function keys with LED indicators
- UL, cUL, CE approvals
- NEMA 4, 4x indoor ratings

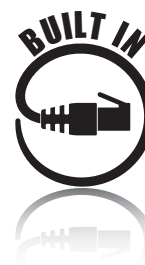


**EA3-T4CL**

## 4-inch TFT WIDESCREEN Full Color Panel

Ethernet-ready widescreen panel for only **\$269**

- Touch screen
- Built-in Ethernet port
- Two built-in serial ports
- Micro-USB programming port
- Supports Portrait and Landscape modes
- UL, cUL, CE approvals
- NEMA 4, 4x indoor ratings



**EA3-T6CL**

## 6-inch TFT Full Color Panel

Ethernet-capable, priced at **\$299**

- Five user-defined function keys, each key with a user-defined red LED indicator
- UL-rated for use on a flat surface of Type 1, 4X enclosure (for indoor use only)
- Powered from a Class 2, 12-24 VDC power supply or through the USB port when programming
- EA-ECOM module allows Ethernet connection



### Add Ethernet to your 6-inch panel for only **\$50** with the EA-ECOM module

The EA-ECOM module adds one Ethernet RJ45 Port for panel configuration and PLC communications. Simply connect the module to the back of your EA3 C-more Micro and secure it with the supplied screws. The EA-ECOM does not require an external power supply.

- Faster project download speed
- Faster firmware update speed
- Power supplied from expansion port
- Connectivity to existing Ethernet networks









The EA-ECOM adds support for the following Ethernet protocols:

- AutomationDirect ECOM Ethernet
- AutomationDirect CLICK Ethernet
- AutomationDirect Do-More Ethernet
- AutomationDirect Productivity Ethernet
- Modbus TCP
- Allen-Bradley EtherNet/IP Client (MicroLogix 1100/1400)
- Allen-Bradley EtherNet/IP Client (SLC5/05/ENI Adapter)

### C-more Micro EA3 Series Panels

	3-inch STN Monochrome Models			4-inch Widescreen TFT Color Models	6-inch TFT Color Models
	EA3-S3ML-RN	EA3-S3ML-R	EA3-S3ML	EA3-T4CL	EA3-T6CL
<b>NEMA Rating</b>	NEMA 250 Type 1 indoor use only. Optional gasket EA-MG-S3ML-GSK can be purchased for NEMA 250 Type 4/4X (indoor use only) rating.			NEMA 250 Type 4/4X (indoor use only)	
<b>Touch Screen</b>	NO			YES	
<b>Display Resolution</b>	128 x 64 pixel			480 x 272 pixel widescreen	320 x 240 pixel
<b>USB Programming Port</b>	NO (Use serial port with EA-MG-PGM-CBL)			(1) USB (Port 1: USB Type Micro-B)	(1) USB (Port 1: USB Type B)
<b>Serial Port</b>	(1) RJ12 Serial			(2) Serial (RJ12 and DSUB15)	
<b>Ethernet Port</b>	NO			(1) 10/100 Mbps Built In	Ethernet Option Module (EA-ECOM)
<b>Protocols</b>	Supports only Automationdirect protocols and Modbus RTU			Supports complete C-more micro protocol list (see specs)	
<b>User Project Memory</b>	1MB		3MB	14MB	6MB
<b>Portrait Mode</b>	NO			YES	
<b>Colors</b>	Monochrome; backlight can be configured per screen and/or per alarm with one of 12 colors. See specs			32,768 colors	


# C-more Micro EA1 Series Selection Guide

C-more Micro EA1 Series Panels			
Part Number		Description	Price
EA1-S3ML		<b>C-more</b> Micro EA1 series touch screen HMI, 3in monochrome STN LCD, 128 x 64, supports (1) serial port. Selectable backlight colors: red, green, amber, lime, or yellow	\$205.00
EA1-S3ML-N	<b>Non-Touch</b> 	<b>C-more</b> Micro EA1 series non-touch screen HMI, 3in monochrome STN LCD, 128 x 64, supports (1) serial port. Selectable backlight colors: red, green, amber, lime, or yellow	\$161.00
EA1-S3MLW		<b>C-more</b> Micro EA1 series touch screen HMI, 3in monochrome STN LCD, 128 x 64, supports (1) serial port. Selectable backlight colors: white, pink1, pink 2, pink3 or red	\$205.00
EA1-S3MLW-N	<b>Non-Touch</b> 	<b>C-more</b> Micro EA1 series non-touch screen HMI, 3in monochrome STN LCD, 128 x 64, supports (1) serial port. Selectable backlight colors: white, pink1, pink 2, pink3 or red	\$161.00
EA1-T4CL		<b>C-more</b> Micro EA1 series touch screen HMI, 4in color TFT LCD, 320 x 240, QVGA, supports (1) serial and (1) USB port.	\$356.00
EA1-T6CL		<b>C-more</b> Micro EA1 series touch screen HMI, 6in color TFT LCD, 320 x 240, QVGA, supports (1) serial and (1) USB port.	\$432.00



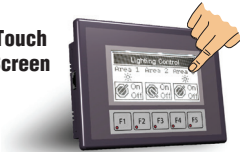

Part Number	Panel Software / Firmware Version Required
EA1-S3ML	1.0 or later
EA1-S3ML-N	
EA1-S3MLW	
EA1-S3MLW-N	1.5 or later
EA1-T4CL	3.0 or later
EA1-T6CL	2.5 or later



# C-more Micro EA1 Series Selection Guide

C-more Micro EA1 Series Panel Accessories			
Part Number		Description	Price
EA-MG-BZ1		Keypad bezel, 8 predefined function keys. For use with EA1 series 3in <b>C-more</b> Micro HMIs.	\$64.00
EA-MG-BZ2		Keypad bezel, 20 predefined function keys. For use with EA1 series 3in <b>C-more</b> Micro HMIs.	\$87.00
EA-MG-P1		AC/DC power adapter, 24 VDC. For use with EA1 series 3in <b>C-more</b> Micro HMIs.	\$31.50
EA-MG-SP1		AC/DC power adapter, 24 VDC. For use with EA1 series 3in <b>C-more</b> Micro HMIs. Integral 15-pin D-Sub RS-232/422/485 port included.	\$54.00
EA-COMCON-3		DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, right angle cable entry. For use with <b>C-more</b> Micro EA1 series 4in and 6in HMIs, <b>C-more</b> Micro EA3 series 3in, 4in, and 6in HMIs, <b>C-more</b> EA9 6in and 7in HMIs.	\$42.00
EA-COMCON-3A		DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, straight cable entry. For use with <b>C-more</b> Micro EA1 series 3in with EA1-MG-SP1, <b>C-more</b> Micro EA3 series 8in and 10in HMIs, <b>C-more</b> EA9 8in, 10in, 12in and 15in HMIs.	\$19.00
EA-MG6-BZ2		Keypad bezel, 20 predefined function keys. For use with EA1-T6CL <b>C-more</b> Micro HMIs being used in Landscape (horizontal mounted) mode.	\$107.00
EA-MG6-BZ2P		Keypad bezel, 21 predefined function keys. For use with EA1-T6CL <b>C-more</b> Micro HMIs being used in Portrait (vertical mounted) mode.	\$89.00
EA-MG-COV-CL		Screen protector, clear, 3in. Package of 5. For use with <b>C-more</b> Micro 3in HMIs.	\$35.50
EA-4-COV2		Screen protector, replacement, non-glare, 4in. Package of 3. For use with <b>C-more</b> Micro EA1-T4CL 4in HMIs.	\$33.50
EA-6-COV2		Screen protector, non-glare, 6in. Package of 3. For use with <b>C-more</b> and <b>C-more</b> Micro 6in panels.	\$37.00



# C-more Micro 3-inch EA1 Series Overview







<b>C-more Micro 3-inch EA1 Series</b>			
<b>Part Number</b>		<b>Description</b>	<b>Price</b>
<b>EA1-S3ML</b>	<b>Touch Screen</b> 	<b>C-more</b> Micro EA1 series touch screen HMI, 3in monochrome STN LCD, 128 x 64, supports (1) serial port. Selectable backlight colors: red, green, amber, lime, or yellow	\$205.00
<b>EA1-S3ML-N</b>	<b>Non-Touch</b> 	<b>C-more</b> Micro EA1 series non-touch screen HMI, 3in monochrome STN LCD, 128 x 64, supports (1) serial port. Selectable backlight colors: red, green, amber, lime, or yellow	\$161.00
<b>EA1-S3MLW</b>	<b>Touch Screen</b> 	<b>C-more</b> Micro EA1 series touch screen HMI, 3in monochrome STN LCD, 128 x 64, supports (1) serial port. Selectable backlight colors: white, pink1, pink 2, pink3 or red	\$205.00
<b>EA1-S3MLW-N</b>	<b>Non-Touch</b> 	<b>C-more</b> Micro EA1 series non-touch screen HMI, 3in monochrome STN LCD, 128 x 64, supports (1) serial port. Selectable backlight colors: white, pink1, pink 2, pink3 or red	\$161.00



**NOTE:** Software and Firmware Version 1.5 or later is required with models EA1-S3MLW and EA1-S3MLW-N. Available for free download at [www.automationdirect.com](http://www.automationdirect.com).

# C-more Micro 3-inch EA1 Series

<b>C-more Micro 3-inch EA1 Series Panels Programming Software &amp; Programming Cable</b>			
<b>Part Number</b>		<b>Description</b>	<b>Price</b>
<b>EA-MG-PGMSW</b>		<b>C-more</b> Micro Windows-based programming software, CD. For use with <b>C-more</b> Micro panels. Requires USB port connection from PC to <b>C-more</b> Micro panel.	\$25.00
<b>EA-MG-PGM-CBL</b>		USB/RS-232 programming cable assembly, USB Type A male to RJ12 male, 6ft cable length. For use with <b>C-more</b> Micro panels, CLICK CPUs, Do-more H2 series CPUs, and DirectLogic CPUs.	\$43.00

<b>C-more Micro 3-inch EA1 Series Panel Accessories</b>			
<b>Part Number</b>		<b>Description</b>	<b>Price</b>
<b>EA-MG-BZ1</b>		Keypad bezel, 8 predefined function keys. For use with EA1 series 3in <b>C-more</b> Micro HMIs.	\$64.00
<b>EA-MG-BZ2</b>		Keypad bezel, 20 predefined function keys. For use with EA1 series 3in <b>C-more</b> Micro HMIs.	\$87.00
<b>EA-MG-P1</b>		AC/DC power adapter, 24 VDC. For use with EA1 series 3in <b>C-more</b> Micro HMIs.	\$31.50
<b>EA-MG-SP1</b>		AC/DC power adapter, 24 VDC. For use with EA1 series 3in <b>C-more</b> Micro HMIs. Integral 15-pin D-Sub RS-232/422/485 port included.	\$54.00
<b>EA-COMCON-3A</b>		DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, straight cable entry. For use with <b>C-more</b> Micro EA1 series 3in with EA1-MG-SP1, <b>C-more</b> Micro EA3 series 8in and 10in HMIs, <b>C-more</b> EA9 8in, 10in, 12in and 15in HMIs.	\$19.00
<b>EA-MG-COV-CL</b>		Screen protector, clear, 3in. Package of 5. For use with <b>C-more</b> Micro 3in HMIs.	\$35.50



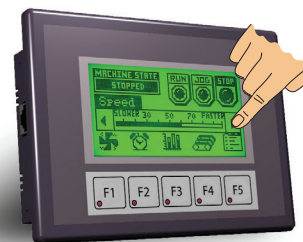
**For a list of supported protocols and cabling options refer to the 3-inch C-more Micro Protocols and cabling chart starting on page tCMM-14.**



# C-more Micro 3-inch EA1 STN Touch Panel

Model EA1-S3ML **C-more** 3-inch Micro touch panel has a 3.1-inch STN LCD monochrome display and five selectable LED-driven backlight colors: Green, Red, Amber, Yellow and Lime. It features a 128 x 64 pixel display, and five user-defined function keys each with a user-defined red LED indicator. The panel can display up to 10 lines by 32 characters of static text and up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics. It is rated UL for use on a flat surface of Type 1, 4X enclosure (for indoor use only). This Micro panel can receive power from the serial communications port of most AutomationDirect PLCs. An EA-MG-SP1 Serial Port with DC Power Adapter option module (RS-232/422/485) is required when using other controllers.

Part No. EA1-S3ML



\$205.00



## Features

- Touch screen display
- Free downloadable programming software
- 128 x 64 pixel display with up to 10 lines by 32 characters of text and graphics
- Up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics
- 5 programmable function keys can change with every screen. Can increment / decrement values, trigger recipes, view index of screens.
- 5-Color LED backlight for longer lifetime; Green, Red, Amber, Yellow and Lime
- 2 optional snap-on keypad bezels
- 768 KB memory
- Panel is powered from PLC comm port when using select AutomationDirect PLCs. Use optional DC power adapter and serial port modules if needed for other controllers (RS-232/422/485)
- Built in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase

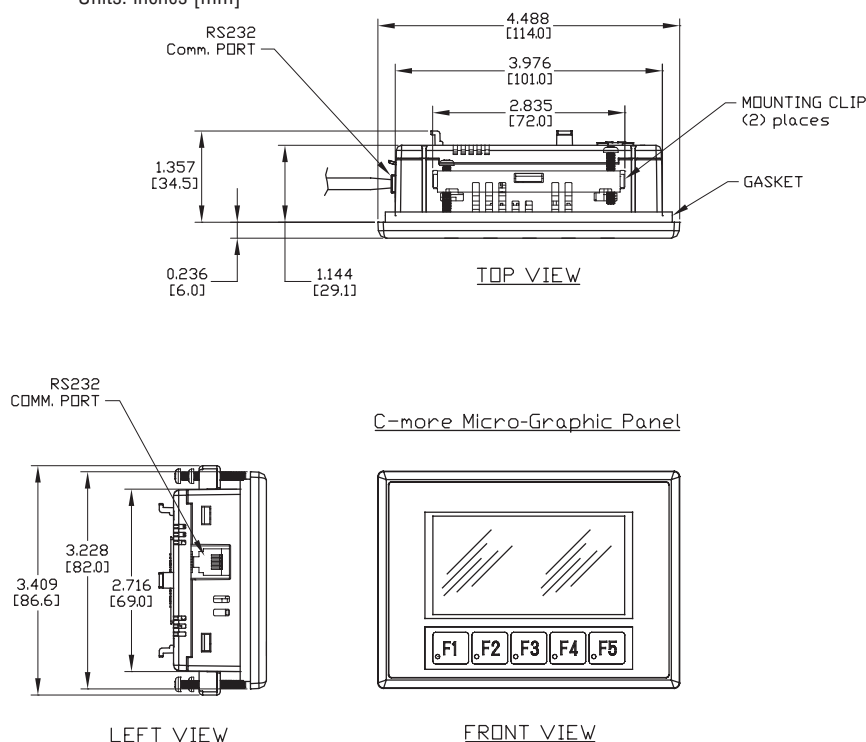


**NOTE: Don't forget the optional keypad bezels, DC power adapter and serial port with DC power adapter shown in the Accessories.**

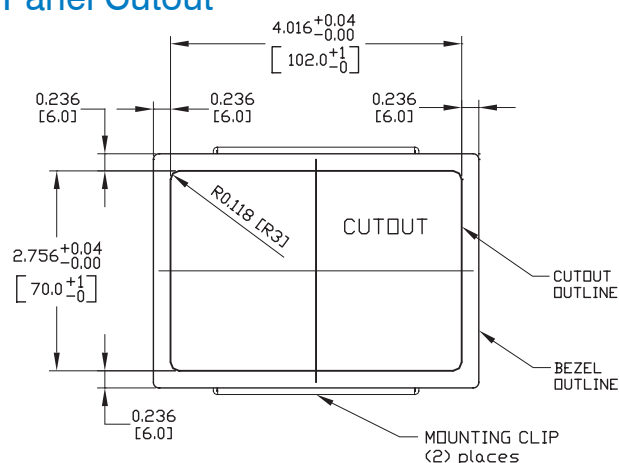
Function	Available
Ethernet	No
USB Programming Port	No
Serial RJ12 Port	Yes
Serial DB15 Port	Optional (EA-MG-SP1)

## Dimensions

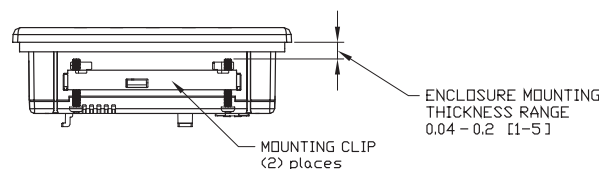
Units: inches [mm]



## Panel Cutout



## Panel Thickness



**NOTE: The C-more 3-inch Micro cutout dimensions are not equivalent to previous AutomationDirect text panels. The C-more Micro panels will not fit in cutouts for DV-1000, EZText or Optimate panels.**

# C-more Micro 3-inch EA1 STN Touch Panel

Model EA1-S3MLW **C-more** 3-inch Micro touch panel has a 3.1-inch STN LCD monochrome display and five selectable LED-driven backlight colors: White, Pink1, Pink2, Pink3 and Red. It features a 128 x 64 pixel display, and five user-defined function keys each with a user-defined red LED indicator. The panel can display up to 10 lines by 32 characters of static text and up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics. It is rated UL for use on a flat surface of Type 1, 4X enclosure (for indoor use only). This Micro panel can receive power from the serial communications port of most AutomationDirect PLCs. An EA-MG-SP1 Serial Port with DC Power Adapter option module (RS-232/422/485) is required when using other controllers.

Part No. EA1-S3MLW



\$205.00



## Features

- Touch screen display
- Free downloadable programming software
- 128 x 64 pixel display with up to 10 lines by 32 characters of text and graphics
- Up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics
- 5 programmable function keys can change with every screen. Can increment / decrement values, trigger recipes, view index of screens.
- 5-Color LED backlight for longer lifetime; White, Pink1, Pink2, Pink3 and Red
- 2 optional snap-on keypad bezels
- 768 KB memory
- Panel is powered from PLC comm port when using select AutomationDirect PLCs. Use optional DC power adapter and serial port modules if needed for other controllers (RS-232/422/485)
- Built-in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase

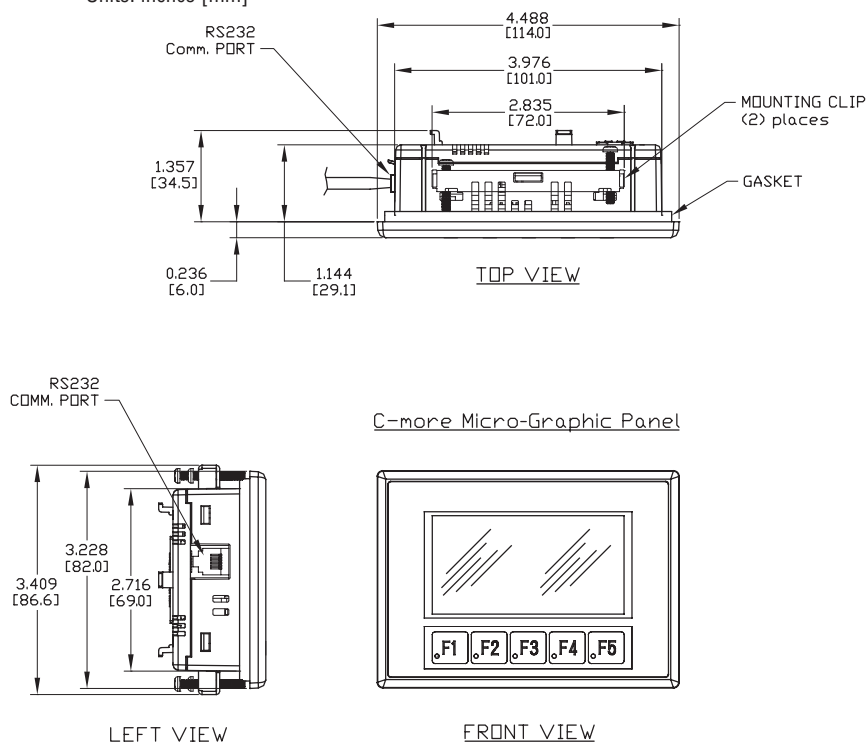


**NOTE: Don't forget the optional keypad bezels, DC power adapter and serial port with DC power adapter shown in the Accessories.**

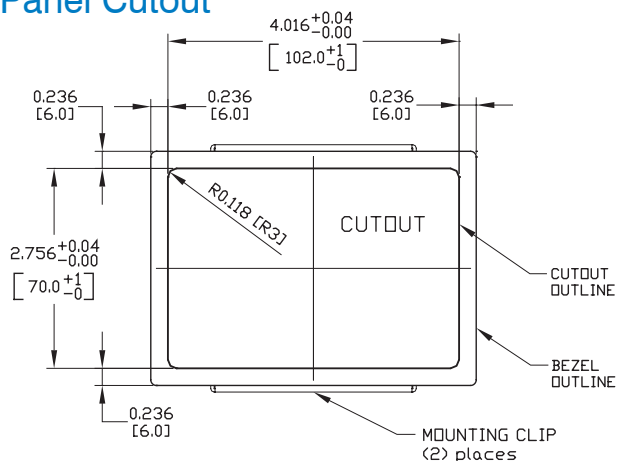
Function	Available
Ethernet	No
USB Programming Port	No
Serial RJ12 Port	Yes
Serial DB15 Port	Optional (EA-MG-SP1)

## Dimensions

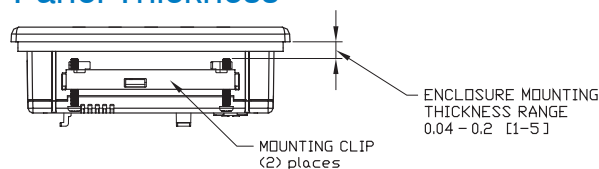
Units: inches [mm]



## Panel Cutout



## Panel Thickness



**NOTE: The C-more 3-inch Micro cutout dimensions are not equivalent to previous AutomationDirect text panels. The C-more Micro panels will not fit in cutouts for DV-1000, EZText or Optimate panels.**

# C-more Micro 3-inch EA1 STN Non-Touch

Model EA1-S3ML-N **C-more** 3-inch Micro non-touch panel has a 3.1-inch STN LCD monochrome display and five selectable LED-driven backlight colors: Green, Red, Amber, Yellow and Lime. It features a 128 x 64 pixel display, and five user-defined function keys each with a user-defined red LED indicator. The panel can display up to 10 lines by 32 characters of static text and up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics. It is rated UL for use on a flat surface of Type 1, 4X enclosure (for indoor use only). This Micro panel can receive power from the serial communications port of most AutomationDirect PLCs. An EA-MG-SP1 Serial Port with DC Power Adapter option module (RS-232/422/485) is required when using other controllers.

Part No. EA1-S3ML-N



\$161.00



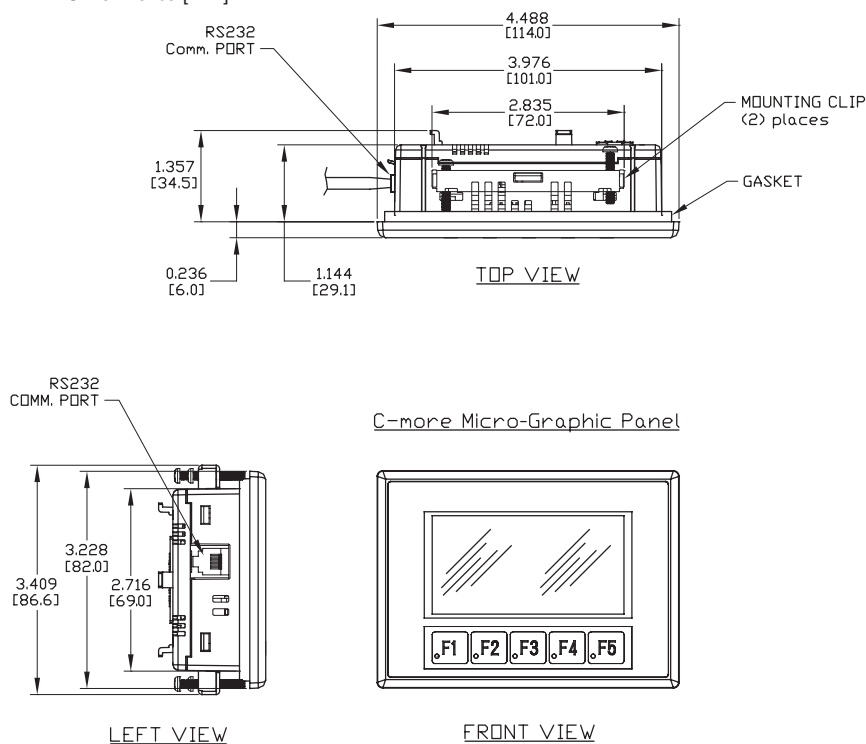
## Features

- Free downloadable programming software
- 128 x 64 pixel display with up to 10 lines by 32 characters of text and graphics
- Up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics
- 5 programmable function keys can change with every screen. Can increment / decrement values, trigger recipes, view index of screens.
- 5-Color LED backlight for longer lifetime; Green, Red, Amber, Yellow and Lime
- 2 optional snap-on keypad bezels
- 768 KB memory
- Panel is powered from PLC comm port when using select AutomationDirect PLCs. Use optional DC power adapter and serial port modules if needed for other controllers (RS-232/422/485)
- Built-in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase

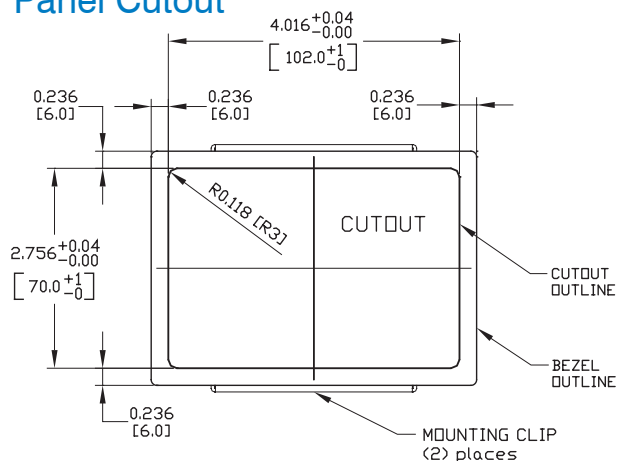
**NOTE: Don't forget the optional keypad bezels, DC power adapter and serial port with DC power adapter shown in the Accessories.**

## Dimensions

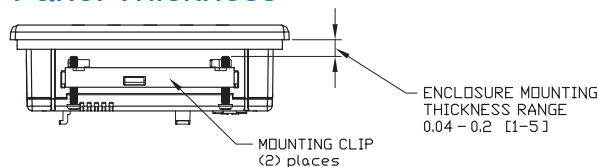
Units: inches [mm]



## Panel Cutout



## Panel Thickness



**NOTE: The C-more 3-inch Micro cutout dimensions are not equivalent to previous AutomationDirect text panels. The C-more Micro panels will not fit in cutouts for DV-1000, EZText or Optimate panels.**



# C-more Micro 3-inch EA1 STN Non-Touch

Model EA1-S3ML-N **C-more** 3-inch Micro non-touch panel has a 3.1-inch STN LCD monochrome display and five selectable LED-driven backlight colors including White, Plnk1, Pink2, Pink3 and Red. It features a 128 x 64 pixel display, and five user-defined function keys each with a user-defined red LED indicator. The panel can display up to 10 lines by 32 characters of static text and up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics. It is rated UL for use on a flat surface of Type 1, 4X enclosure (for indoor use only). This Micro panel can receive power from the serial communications port of most AutomationDirect PLCs. An EA-MG-SP1 Serial Port with DC Power Adapter option module (RS-232/422/485) is required when using third-party PLCs.

Part No. EA1-S3MLW-N



\$161.00



## Features

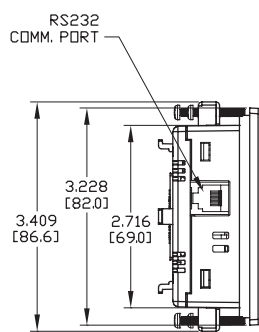
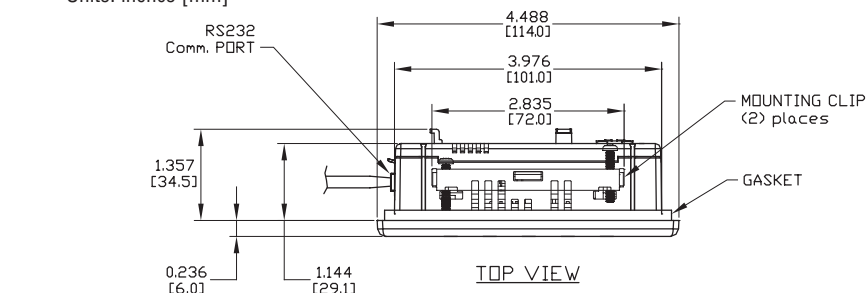
- Free downloadable programming software
- 128 x 64 pixel display with up to 10 lines by 32 characters of text and graphics
- Up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics
- 5 programmable function keys can change with every screen. Can increment / decrement values, trigger recipes, view index of screens.
- 5-Color LED backlight for longer lifetime; White, Pink1, Pink2, Pink3 and Red
- 2 optional snap-on keypad bezels
- 768 KB memory
- Panel is powered from PLC comm port when using select AutomationDirect PLCs. Use optional DC power adapter and serial port modules if needed for other controllers (RS-232/422/485)
- Built-in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase



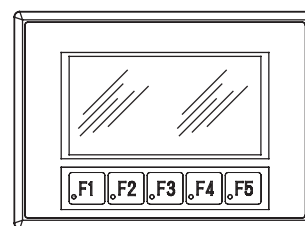
**NOTE: Don't forget the optional keypad bezels, DC power adapter and serial port with DC power adapter shown in the Accessories.**

## Dimensions

Units: inches [mm]

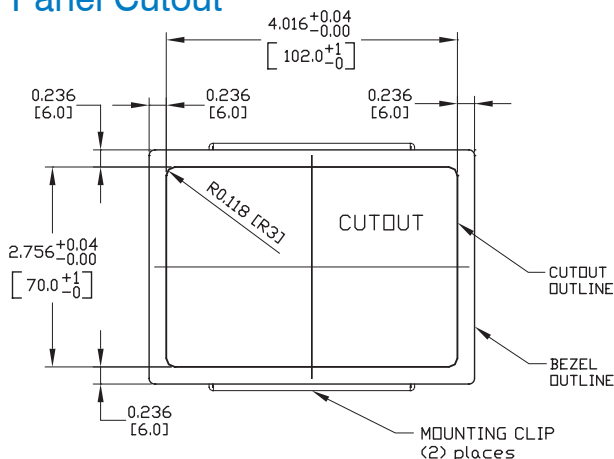


C-more Micro-Graphic Panel

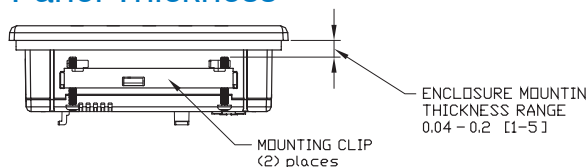


FRONT VIEW

## Panel Cutout



## Panel Thickness



**NOTE: The C-more 3-inch Micro cutout dimensions are not equivalent to previous AutomationDirect text panels. The C-more Micro panels will not fit in cutouts for DV-1000, EZText or Optimate panels.**

# C-more Micro 3-inch EA1 Specifications

Specification	Model	3-inch STN Micro Panel Touch Screen	3-inch STN Micro Panel Non-Touch Screen
Part Number		EA1-S3ML, EA1-S3MLW	EA1-S3ML-N, EA1-S3MLW-N
Description		128 x 64 pixel LCD display, five user defined keypad function buttons, and five user defined LED's	
Display			
• Type		3.1-inch STN monochrome LCD, graphical characters	
• Resolution		128 (W) x 64 (H) pixel	
• Color		2 colors (normal / inverse)	
• Viewing Area Size		2.789" (W) x 1.385" (H) [70.8 mm x 35.2 mm]	
• Active Area Size		2.670" (W) x 1.259" (H) [67.8 mm x 32.0 mm]	
• Contrast		Adjusted from the panel's built-in configuration setup menu	
• Viewing Angle		3, 9 o'clock axis → 45 degrees 6 o'clock axis → 45 degrees 12 o'clock axis → 30 degrees	
Backlight			
• Type		LED	
• Color		5 user defined colors: <b>EA1-S3ML, EA1-S3ML-N</b> - Red, Green, Amber, Lime, and Yellow <b>EA1-S3MLW, EA1-S3MLW-N</b> - White, Pink1, Pink2, Pink3 and Red	
• User Replaceable		No	
Touch Screen			
• Type		Analog touch panel, single touch*	N/A
• Operation		51 gram force [0.5 N] maximum	N/A
• Life		Minimum of 1,000,000 cycles	N/A
Features			
• User Memory		768 KB	
• Number of Screens		Up to 999 – limited by project memory usage	
• Beep (Internal)		Yes	
• Keypad Function Buttons		Five user defined function key buttons with the ability to customize the label. Minimum of 500,000 cycles	
• Keypad Function Button LEDs		Each function key button includes a red LED that can be user programmed.	
• Serial Communications		Built-in RJ12 serial communications port (RS-232). Optional serial communications port (RS-232, RS-485/422) when using the optional EA-MG-SP1 Serial Port with DC Power Adapter.	
• Expansion Connection		Yes – used with optional Keypad Bezels, EA-MG-BZ1 & BZ2, and EA-MG-P1 DC Power Adapter, and EA-MG-SP1 Serial Port with DC Power Adapter.	
Screen Objects			
• Functional Devices		Pushbutton, Switch, Indicator Button, Indicator Light, Graphic Indicator Light, Numeric Display, Numeric Entry, Inc/Dec Value, Bar Graph, Bitmap Button, Static Bitmap, Dynamic Bitmap, Recipe Button, Static Text, Lookup Text, Dynamic Text, Scroll Text, Screen Change Pushbutton, Screen Selector, Adjust Contrast, Function, Key Configuration Object, Realtime Graph, Line Graph, Analog Meter	
• Static Shapes		Lines, Rectangles, Circles and Frames	
• Displayable Fonts		Fixed fonts: 4x6, 6x6, 6x6B, 6x8, 8x16, 8x32, 8x64, 16x16, 16x32, 16x64, 32x16, 32x32, 32x64, and Windows fonts	
*Note: The Touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.			
C-more 3-inch Micro panel specifications continued on next page.			



NOTE: Photo includes EA-MG-BZ2

# C-more Micro 3-inch EA1 Specifications

Specification \ Model	3-inch STN Micro Panel Touch Screen	3-inch STN Micro Panel Non-Touch Screen
Part Number	EA1-S3ML, EA1-S3MLW	EA1-S3ML-N, EA1-S3MLW-N
Electrical		
• Input Voltage Range	5.0 VDC (4.75 – 5.25 VDC)	
• Input Power	Supplied through the panel's RJ12 serial communications port connection when used with any AutomationDirect PLC having an RJ12 communication port. Can also be supplied from an external Class 2, 12-24 VDC power source when using the optional EA-MG-P1 DC Power Adapter, or the optional EA-MG-SP1 Serial Port with DC Power Adapter	
• Power Consumption	1.05W (220mA @ 4.75 VDC)	
• Recommended Fuse	Type AGC fast acting glass fuse, 250 mA, 250 VAC, ADC p/n AGC-25 No fuse required when directly connected to a PLC or PC with recommended cable.	
• Maximum Inrush Current	1 A for 500 μs	
• Acceptable External Power Drop Duration	Maximum 1ms	
Environmental*		
• Operating Temperature	0 to 50 °C (32 to 122 °F) Maximum surrounding air temperature rating: 50 °C	
• Storage Temperature	–20 to +60 °C (–4 to +140 °F)	
• Humidity	5–95% RH (non-condensing)	
• Environmental Air	For use in Pollution Degree 2 Environment	
• Vibration	IEC60068-2-6 (Test Fc), 5-9 Hz: 3.5 mm amplitude, 9-150 Hz: 1.0G, sweeping, at a rate of 1 octave/min. (±10%), 10 sweep cycles per axis on each of 3 mutually perpendicular axes	
• Shock	IEC60068-2-27 (Test Ea), 15 G peak, 11ms duration, three shocks in each direction per axis, on 3 mutually perpendicular axes (total of 18 shocks)	
• Noise Immunity	NEMA ICS3-304 ( EN61131-2 ) RFI, (145MHz, 440Mhz 10W @ 10cm) Impulse 1000V @ 1μs pulse EN61000-4-2 (ESD), EN61000-4-3 (RFI), EN61000-4-4 (FTB), EN61000-4-5 (Surge) N61000-4-6 (Conducted), EN61000-4-8 (Power frequency magnetic field immunity)	
• Enclosure	For use on a flat surface of Type 1, 4X enclosure (Indoor use only)	
• Agency Approvals	CE (EN61131-2), UL508, CUL Canadian C22.2 No. 142-M95, UL File E157382, CSA File 234884	
Physical		
• Dimensions	4.488" (W) x 3.228" (H) x 1.593" (D) [114.0 mm x 82.0 mm x 40.5 mm]	
• Enclosure Mounting Thickness Range	0.04" – 0.2" [1 – 5 mm]	
• Mounting Clip Screw Torque Range	21 – 28 oz-in [0.15 – 0.2 N-m]	
• Depth from bezel rear with options Module	2.295" [58.3 mm]	
• Weight	5.82 oz. (165 g)	



**NOTE:** The environmental specifications for the panels shown above are also applicable for the *C-more* 3" Micro accessories shown later in this section of the catalog.

Supported Protocols / Drivers	
Serial - Panel port1 or port2*	Serial - Panel port2 only *
AutomationDirect Productivity Series	Allen-Bradley DF1 Full Duplex
AutomationDirect CLICK	Allen-Bradley DF1 Half Duplex
AutomationDirect Do-more / BRX**	Allen-Bradley PLC5 DF1
AutomationDirect K-sequence	Allen-Bradley DH485
AutomationDirect DirectNET	GE SNPX (90/30, 90/70, Micro 90, VersaMax Micro)
AutomationDirect Modbus	Mitsubishi FX
Modicon Modbus RTU	Mitsubishi Q & QnA
Entivity Modbus RTU	Omron Host Link (C200 Adapter, C500)
	Omron FINS Serial (CJ1, CS1)
	Siemens PPI (S7-200 CPU)
	AutomationDirect GS Drives
	AutomationDirect SOLO Temperature Controller

**Notes:** \* Serial port 2 requires the use of EA-MG-SP1 adapter for *C-more* Micro 3-inch EA1 series  
 \*\* BX-P-SER2-RJ12 is required



For a list of supported protocols and cabling options refer to the 3-inch *C-more* Micro Protocols and cabling chart starting on page tCMM-14.

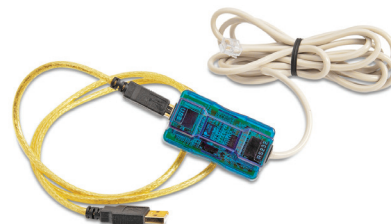
# C-more Micro 3-inch EA1 Series Programming Connections

## C-more STN Micro Programming Connection

Using the **C-more** Micro Programming Software for project development, STN **C-more** Micro panels can be connected to a PC (personal computer) by using EA-MG-PGM-CBL, the USB-to-RS-232 cable assembly.

- Connect the USB programming cable (included) from a USB port type A on the PC to the USB type B port on the converter (included). Next connect the serial programming cable from the converter's RJ12 port to the panel's RJ12 serial port. The panel receives power from the USB port of the PC that it is connected to through the USB to RS-232 converter assembly.

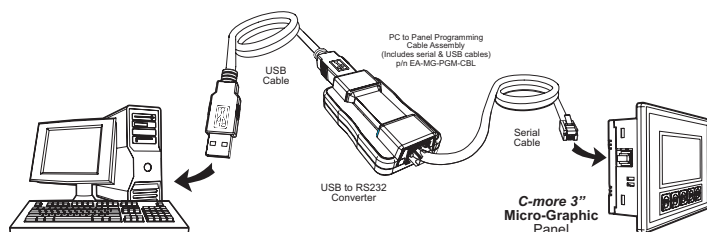
## USB to RS-232 Programming Cable Assembly



Part No. EA-MG-PGM-CBL

\$43.00

## USB Connectivity



**NOTE:** The TFT panels EA1-T4CL, EA1-T6CL, EA3-T6CL, EA3-T8CL and EA3-T10CL do NOT use the EA-MG-PGM-CBL assembly. The TFT panels use a standard USB A-to-B type cable such as USB-CBL-AB6. See below.

## USB to RS-232 Converter Specifications

<b>Part Number</b>	EA-MG-PGM-CBL
<b>Hardware</b>	
<b>USB Interface</b>	USB Specification Rev. 1.1 Connector: USB Type B jack to accept USB Type B cable plug
<b>Serial Interface</b>	RS-232 (EIA-232-E) Connector: RJ12 phone jack 6p to accept RJ12 cable plug
<b>Baud Rate</b>	115.2 kbps Maximum
<b>Input Voltage</b>	5 VDC (Supplied thru serial interface cable.)
<b>Power Consumption</b>	50 mA (Does not include power to panel and/or bezel.)
<b>Accessory Cables (included)</b>	
<b>USB Cable</b>	USB Type A plug to PC on one end, USB Type B plug to converter on other end, 0.30 m [1 foot] length (* Note)
<b>Serial Cable</b>	RJ12 phone plug connectors on both ends, 2.0 m [6.56 feet] length (* Note)
<b>Physical</b>	
<b>Dimensions</b>	2.559" (W) x 1.417" (H) x 0.886" (D) [65.0 mm x 36.0 mm x 22.5 mm]
<b>Weight</b>	1.06 oz. [30 g]
<b>Environmental</b>	See Micro panel specifications at the beginning of this catalog section.
<b>* Note: Maximum cable length for either the USB or serial cable should not exceed 2.0 m [6.56 feet] in length.</b>	

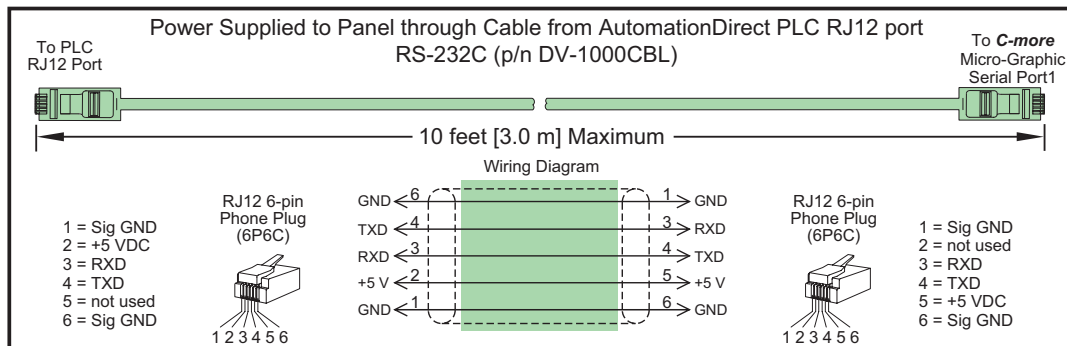


# C-more Micro 3-inch EA1 Power Connection Wiring

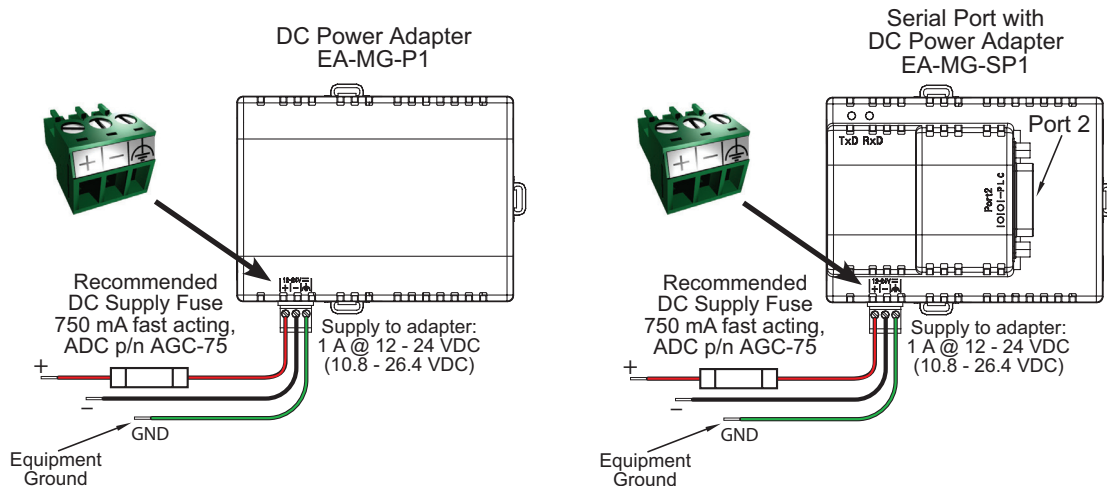
## Providing power to the touch panel

- The **C-more** 3-inch Micro panel is powered during programming from the PC through the USB to RS-232 Programming Cable Assembly, EA-MG-PGM-CBL.
- During operation, the **C-more** Micro panel can be powered from most **AutomationDirect** PLC's RJ12 serial communications port by using the DV-1000CBL communications cable.
- Or install either the DC Power Adapter, EA-MG-P1, or the Serial Port with DC Power Adapter, EA-MG-SP1, to the rear of the panel and supply the adapter from a Class 2, 12-24 VDC power source.

## 3-inch Panel powered from AutomationDirect PLC via communications cable



## 3-inch panel powered from a DC power adapter – wiring diagram



**NOTE:** Recommended DC power supply to power either DC Power Adapter, AutomationDirect Part No. PSC-24-015 or PSC-24-030.

**NOTE:** The maximum communication cable length when a 3-inch panel is powered from an optional DC power adapter is 50 feet.

# C-more Micro 3-inch EA1 PLC Connections

## Cabling requirements

The following cables can be used when connecting the **C-more** 3-inch Micro panel's built-in RJ12 serial port (Port1) with the Productivity Series, Do-more/BRX\*, CLICK, DL05, DL06, DL105, DL205, D3-350 and DL405 CPUs.

- DV-1000CBL — connects to Productivity Series, Do-more/BRX\* CLICK, DL05, DL06, DL105, DL205, D3-350 and D4-450 phone jack.
- D4-1000CBL — connects to all DL405 CPU 15-pin ports.

A maximum cable length of 10 feet between the **C-more** Micro panel and the PLC is recommended when powering the panel from the PLC.

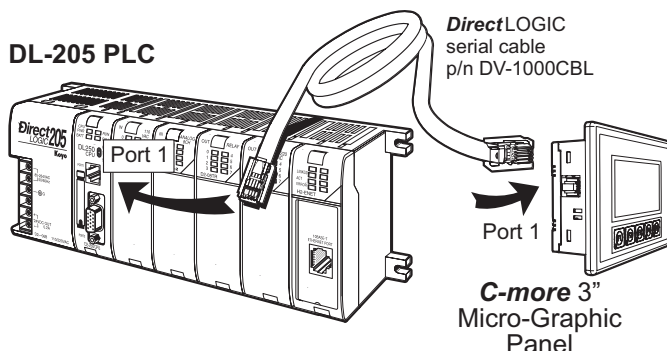
The Serial Port with DC Power Adapter module, EA-MG-SP1, can be used with the **C-more** Micro 3-inch EA1 series if the application requires the use of RS-422 or RS-485. The serial port on the adapter, designated as port 2, can also be wired for RS-232. The use of the adapter permits greater cable length. See the Communication Protocols & Cabling Charts in this catalog section for details on the selection of various controllers, protocols, and connectivity.

## Drivers for your Controller

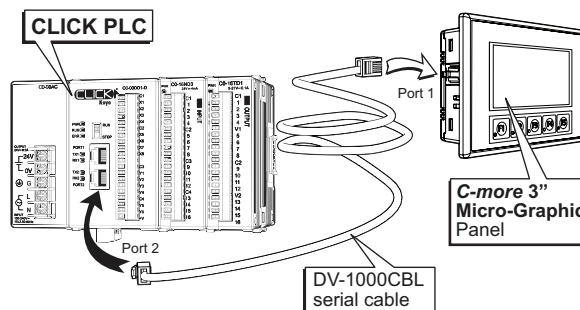
- AutomationDirect Productivity Series
- AutomationDirect Do-more/BRX\*
- AutomationDirect CLICK (Modbus)
- **Direct**LOGIC K-sequence, **Direct**LOGIC DirectNET, **Direct**LOGIC Modbus (Koyo Addressing)
- Modbus RTU
- Allen Bradley DF1 Full Duplex, Allen Bradley DF1 Half Duplex, Allen Bradley PLC5 DF1, AB DH485
- Omron Host Link (C200 Adapter, C500)  
Omron FINS serial (CJ1, CS1)
- GE SNPX (90/30, 90/70, Micro 90, VersaMax Micro)
- Mitsubishi Melsec FX
- Siemens PPI
- Entivity Modbus RTU
- AutomationDirect GS Drives
- AutomationDirect SOLO Temperature Controllers
- Mitsubishi Q/QnA

\* BX-P-SER2-RJ12 is required

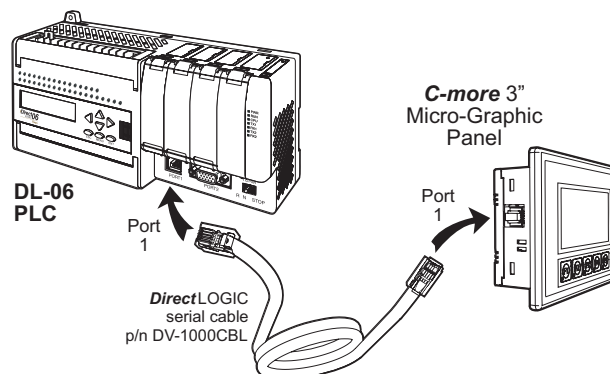
### C-more 3-inch Micro Port 1 to DL205 PLC Port 1



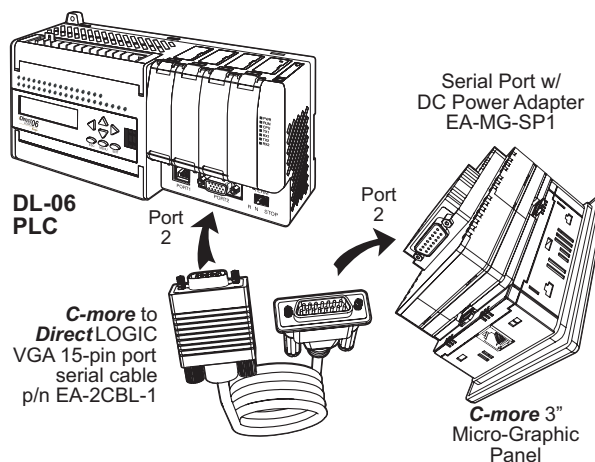
### C-more 3-inch Micro Port 1 to CLICK PLC Port 2



### C-more 3-inch Micro Port 1 to DL06 PLC Port 1



### C-more 3-inch Micro Port 2 to DL06 PLC Port 2



# C-more Micro 3-inch EA1 Communication Protocols & Cabling Chart

Controller Compatibility & Connection Chart										
PLC			C-more 3-inch Micro Panel.							
Family	CPU	Port & Type	Panel to PLC Cabling Components Required for Specific Port and Protocol being used.							
			PLC Port Powered Powered with 5 VDC from the connected PLC's comm. port.		DC Power Adapter Powered from an external 24 VDC source using the DC Power Adapter, EA-MG-P1.		Serial Port with DC Power Adapter Powered from an external 24 VDC source using the Serial Port with DC Power Adapter, EA-MG-SP1.			
			Using panel's RJ12 port 1		Using panel's RJ12 port 1		Using panel's RJ12 port 1		Using adapter's serial Port 2 15-pin D-sub - female	
			Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type
CLICK	all versions	Port 1 RJ12 - 6 pin	Automation Direct Modbus (CLICK)	DV-1000CBL RS-232	Automation Direct Modbus (CLICK)	DV-1000CBL RS-232	Automation Direct Modbus (CLICK)	DV-1000CBL RS-232	Automation Direct Modbus (CLICK)	EA-2CBL RS-232
	Analog CPU's	Port 2 RJ12 - 6 pin		N/A		N/A		N/A		See Note RS-485
Productivity Series	all versions	Port 3 Terminal block - 3-pin	Automation Direct Productivity Serial	DV-1000CBL RS-232	Automation Direct Productivity Serial	DV-1000CBL RS-232	Automation Direct Productivity Serial	DV-1000CBL RS-232	Automation Direct Productivity Serial	DV-1000CBL RS-232
		RS-232 RJ12 - 6 pin		N/A		N/A		N/A		See Note RS-485
Do-more	all versions	Port 2 RJ12 - 6 pin	Automation Direct Do-more Serial	DV-1000CBL RS-232	Automation Direct Do-more Serial	DV-1000CBL RS-232	Automation Direct Do-more Serial	DV-1000CBL RS-232	Automation Direct Do-more Serial	DV-1000CBL RS-232
BRX	all versions	RS-232 POM module BX-P-SER2-RJ12	Automation Direct Do-more Serial	DV-1000CBL RS-232	Automation Direct Do-more Serial	DV-1000CBL RS-232	Automation Direct Do-more Serial	DV-1000CBL RS-232	Automation Direct Do-more Serial	DV-1000CBL RS-232
		RS-485 Port Term block 3-pin		N/A		N/A		N/A		See Note RS-485
DirectLOGIC DL05 (see D0-DCM under DL06)	all versions	Port 1 RJ12 - 6 pin	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	EA-2CBL RS-232
		Port 2 RJ12 - 6 pin								
DirectLOGIC DL06	all versions	Port 1 RJ12 - 6 pin	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	EA-2CBL RS-232
		Port 2 DB15HD (female)		DV-1000CBL + FA-15HD RS-232		DV-1000CBL + FA-15HD RS-232		DV-1000CBL + FA-15HD RS-232		EA-2CBL-1 RS-232
										See Note RS-422
	D0-DCM	Port 1 RJ12 - 6 pin	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	EA-2CBL RS-232
		Port 2 DB15HD (female)		DV-1000CBL + FA-15HD RS-232		DV-1000CBL + FA-15HD RS-232		DV-1000CBL + FA-15HD RS-232		EA-2CBL-1 RS-232
										See Note RS-422
DirectLOGIC DL105	all versions	Port 1 RJ12 - 6 pin	K-sequence	DV-1000CBL RS-232	K-sequence	DV-1000CBL RS-232	K-sequence	DV-1000CBL RS-232	K-sequence	EA-2CBL RS-232

**Note:** See the C-more Micro Hardware User Manual, Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. Available for download at [www.automationdirect.com](http://www.automationdirect.com). PLC Compatibility & Connection Chart continued on next page.

# C-more Micro 3-inch EA1 Communication Protocols & Cabling Chart (cont'd)

Controller Compatibility & Connection Chart										
PLC			C-more 3-inch Micro Panel.							
Family	CPU	Port & Type	Panel to PLC Cabling Components Required for Specific Port and Protocol being used.							
			PLC Port Powered Powered with 5 VDC from the connected PLC's comm. port.		DC Power Adapter Powered from an external 24 VDC source using the DC Power Adapter, EA-MG-P1.		Serial Port with DC Power Adapter Powered from an external 24 VDC source using the Serial Port with DC Power Adapter, EA-MG-SP1.			
			Using panel's RJ12 port 1		Using panel's RJ12 port 1		Using panel's RJ12 port 1		Using adapter's serial Port 2 15-pin D-sub - female	
			Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type
DirectLOGIC DL205	D2-230	Port 1 RJ12 - 6 pin	K-sequence	DV-1000CBL RS-232	K-sequence	DV-1000CBL RS-232	K-sequence	DV-1000CBL RS-232	K-sequence	EA-2CBL RS-232
	D2-240	Port 1 RJ12 - 6 pin	K-sequence	DV-1000CBL RS-232	K-sequence	DV-1000CBL RS-232	K-sequence	DV-1000CBL RS-232	K-sequence	EA-2CBL RS-232
		Port 2 RJ12 - 6 pin	K-sequence, DirectNET		K-sequence, DirectNET		K-sequence, DirectNET		K-sequence, DirectNET	
	D2-250-1	Port 1 RJ12 - 6 pin	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	EA-2CBL RS-232
		Port 2 DB15HD (female)		DV-1000CBL + FA-15HD RS-232		DV-1000CBL + FA-15HD RS-232		DV-1000CBL + FA-15HD RS-232		EA-2CBL-1 RS-232 See Note RS-422
	D2-260	Port 1 RJ12 - 6 pin	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	DV-1000CBL RS-232	K-sequence, DirectNET, Modbus RTU	EA-2CBL RS-232 EA-2CBL-1 RS-232 See Note RS-422
		Port 2 DB15HD (female)		DV-1000CBL + FA-15HD RS-232		DV-1000CBL + FA-15HD RS-232		DV-1000CBL + FA-15HD RS-232		See Note RS-485 Modbus only
	D2-DCM	Port 1 DB 25 pin (female)	K-sequence, DirectNET, Modbus RTU	See Note RS-232	K-sequence, DirectNET, Modbus RTU	See Note RS-232	K-sequence, DirectNET, Modbus RTU	See Note RS-232	DirectNET	EA-4CBL-2 RS-232 See Note RS-422
	WINPLC	Port 1 RJ12 - 6 pin	Modbus RTU	DV-1000CBL RS-232	Modbus RTU	DV-1000CBL RS-232	Modbus RTU	DV-1000CBL RS-232	Modbus RTU	EA-2CBL RS-232
	DirectLOGIC DL305	D3-330 or D3-340	D3-232-DCU DB 25 pin (female)	N/A		DirectNET	See Note RS-232	DirectNET	See Note RS-232	DirectNET
D3-422-DCU DB 25 pin (female)			N/A		N/A		N/A		DirectNET	See Note RS-422
D3-340		Port 1 RJ11 - 4 pin	N/A		DirectNET	OP-3CBL-1 RS-232	DirectNET	OP-3CBL-1 RS-232	DirectNET	EA-3CBL RS-232
		Port 2 RJ11 - 4 pin	N/A		DirectNET, Modbus RTU		DirectNET, Modbus RTU		DirectNET, Modbus RTU	
D3-350		Port 1 RJ12 - 6 pin	K-sequence, DirectNET	DV-1000CBL RS-232	K-sequence, DirectNET	DV-1000CBL RS-232	K-sequence, DirectNET	DV-1000CBL RS-232	K-sequence, DirectNET	EA-2CBL RS-232
		Port 2 DB 25 pin (female)	N/A		K-sequence, DirectNET, Modbus RTU	See Note RS-232	K-sequence, DirectNET, Modbus RTU	See Note RS-232	K-sequence, DirectNET, Modbus RTU	EA-4CBL-2 RS-232 See Note RS-422
D3-DCM D3-350 only		Port 1 DB 25 pin (female)	K-sequence, DirectNET, Modbus RTU	See Note RS-232	K-sequence, DirectNET, Modbus RTU	See Note RS-232	K-sequence, DirectNET, Modbus RTU	See Note RS-232	DirectNET	EA-4CBL-2 RS-232 See Note RS-422

**Note:** See the *C-more Micro Hardware User Manual*, Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. Available for download at [www.automationdirect.com](http://www.automationdirect.com). PLC Compatibility & Connection Chart continued on next page.



# C-more Micro 3-inch EA1 Communication Protocols & Cabling Chart (cont'd)

Controller Compatibility & Connection Chart										
PLC			C-more 3-inch Micro Panel.							
Family	CPU	Port & Type	Panel to PLC Cabling Components Required for Specific Port and Protocol being used.							
			PLC Port Powered		DC Power Adapter		Serial Port with DC Power Adapter			
			Powered with 5 VDC from the connected PLC's comm. port.		Powered from an external 24 VDC source using the DC Power Adapter, EA-MG-P1.		Powered from an external 24 VDC source using the Serial Port with DC Power Adapter, EA-MG-SP1.			
			Using panel's RJ12 port 1		Using panel's RJ12 port 1		Using panel's RJ12 port 1		Using adapter's serial Port 2 15-pin D-sub - female	
			Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type
DirectLOGIC DL405	D4-430	Port 0 DB 15 pin (female)	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	EA-4CBL-1 RS-232
		Port 1 DB 25 pin (female)	N/A		K-sequence, DirectNET	DV-1000CBL & FA-CABKIT RS-232	K-sequence, DirectNET	DV-1000CBL & FA-CABKIT RS-232	K-sequence, DirectNET	EA-4CBL-2 RS-232 See Note RS-422
	D4-440	Port 0 DB 15 pin (female)	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	EA-4CBL-1 RS-232
		Port 1 DB 25 pin (female)	N/A		K-sequence, DirectNET	DV-1000CBL & FA-CABKIT RS-232	K-sequence, DirectNET	DV-1000CBL & FA-CABKIT RS-232	K-sequence, DirectNET	EA-4CBL-2 RS-232 See Note RS-422
	D4-450 / D4-454	Port 0 DB 15 pin (female)	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	D4-1000CBL or DV-1000CBL & FA-CABKIT RS-232	K-sequence	EA-4CBL-1 RS-232
		Port 1 DB 25 pin (female)	N/A		K-sequence, DirectNET, Modbus RTU	DV-1000CBL & FA-CABKIT RS-232	K-sequence, DirectNET, Modbus RTU	DV-1000CBL & FA-CABKIT RS-232	K-sequence, DirectNET, Modbus RTU	EA-4CBL-2 RS-232 See Note RS-422
		Port 2 RJ12 - 6 pin	K-sequence, DirectNET	DV-1000CBL RS-232	K-sequence, DirectNET	DV-1000CBL RS-232	K-sequence, DirectNET	DV-1000CBL RS-232	K-sequence, DirectNET	EA-2CBL RS-232
		Port 3 DB 25 pin (female)	N/A		N/A		N/A		K-sequence, DirectNET, Modbus RTU	See Note RS-422
	D4-DCM	Port 1 DB 25 pin (female)	K-sequence, DirectNET, Modbus RTU	See Note RS-232	K-sequence, DirectNET, Modbus RTU	See Note RS-232	K-sequence, DirectNET, Modbus RTU	See Note RS-232	DirectNET	EA-4CBL-2 RS-232 See Note RS-422
SOLO	N/A	Data +/- terminals	N/A		N/A		N/A		SOLO Temperature Controller	See Note RS-485
GS Drives	N/A	RS-485 Interface	N/A		N/A		N/A		GS Drives Serial GS Drives TCP/IP (GS-EDRV)	See Note RS-485

**Note:** See the C-more Micro Hardware User Manual, Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. Available for download at [www.automationdirect.com](http://www.automationdirect.com). PLC Compatibility & Connection Chart continued on next page.

# C-more Micro 3-inch EA1 Communication Protocols & Cabling Chart (cont'd)

Controller Compatibility & Connection Chart										
PLC			C-more 3-inch Micro Panel.							
Family	CPU	Port & Type	Panel to PLC Cabling Components Required for Specific Port and Protocol being used.							
			PLC Port Powered Powered with 5 VDC from the connected PLC's comm. port.		DC Power Adapter Powered from an external 24 VDC source using the DC Power Adapter, EA-MG-P1.		Serial Port with DC Power Adapter Powered from an external 24 VDC source using the Serial Port with DC Power Adapter, EA-MG-SP1.			
			Using panel's RJ12 port 1		Using panel's RJ12 port 1		Using panel's RJ12 port 1		Using adapter's serial Port 2 15-pin D-sub - female	
			Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type
Allen-Bradley MicroLogix	1000, 1100, 1200, 1400, 1500	8-pin mini-din port	N/A	N/A	N/A	N/A	N/A	N/A	DF1 Full Duplex	EA-MLOGIX-CBL RS-232
		RJ45 8-pin phone plug							DF1 Half Duplex	EA-DH485-CBL RS-232
Allen-Bradley SLC500	5/03, 5/04, 5/05	9-pin D-sub port							DF1 Full Duplex	EA-SLC-232-CBL RS-232
	5/01, 5/02, 5/03	RJ45 8-pin phone plug							DF1 Half Duplex	EA-DH485-CBL RS-232
Allen-Bradley ControlLogix	all	9-pin D-sub port							DF1 Full Duplex	EA-SLC-232-CBL RS-232
Allen-Bradley CompactLogix	all	9-pin D-sub port							DF1 Half Duplex	EA-SLC-232-CBL RS-232
Allen-Bradley FlexLogix	all	9-pin D-sub port							DF1 Full Duplex	EA-SLC-232-CBL RS-232
Allen-Bradley PLC5	all	25-pin D-sub port							DF1 Half Duplex	EA-PLC5--232-CBL RS-232
		RJ45 8-pin phone plug							DF1 Full Duplex	EA-DH485-CBL RS-232
GE	90/30	15-pin D-sub port							SNPX	EA-90-30-CBL RS-422
	Micro 90, VersaMax Micro	RJ45 Port 1								See Note RS-232
		15-pin D-sub port Port 2								EA-90-30-CBL RS-422
Mitsubishi	Melsec FX Series	25-pin D-sub port							CPU Direct	EA-MITSU-CBL RS-422
		8-pin mini-din port								EA-MITSU-CBL-1 RS-422
	Q / QnA	9-pin D-sub port							Q / QnA	See Note RS-232
		6-pin mini-din port								See Note RS-232
Omron	C200 (Adapter), C500	25-pin D-sub port							Host Link	EA-OMRON-CBL RS-232
	CJ1, CS1, CQM1, CPM1, CPM2, C200	9-pin D-sub port							FINS	See Note RS-232
Modicon	984 CPU, Quantum 113 CPU, AEG Modicon Micro Series 110 CPU	varies							Modbus RTU	See Note RS-232
Siemens	S7-200 CPU	9-pin D-sub port 0 or 1							PPI	See Note RS-485

**Note:** See the *C-more Micro Hardware User Manual, Chapter 6: PLC Communications*, for wiring diagrams that the user can use to construct their own cables. Available for download at [www.automationdirect.com](http://www.automationdirect.com). Available cables with descriptions shown on the next page.

# C-more Micro 3-inch EA1 Communication Cables and Cable Kits

Cable Description	Cable Part Number	Price
<b>Cables for direct connect to panel's serial Port1 (Panel powered from PLC's serial port.)</b>		
AutomationDirect Productivity Series, Do-more/BRX*, CLICK, DirectLOGIC PLC RJ-12 port, DL05, DL06, DL105, DL205, D3-350, D4-450 & H2-WinPLC (RS-232C).	<b>DV-1000CBL</b>	\$19.00
DirectLOGIC DL405 PLC 15-pin D-sub port, DL405 (RS-232C).	<b>D4-1000CBL</b>	\$17.00
DirectLOGIC (VGA Style) 15-pin port, DL06, D2-250 (250-1), D2-260 (RS-232C). Use with DV-1000CBL cable.	<b>FA-15HD</b>	\$8.00
DirectLOGIC PLC 15-pin D-sub port, DL405 (RS-232C). Use with DV-1000CBL cable.	<b>FA-CABKIT</b>	\$40.00
DirectLOGIC PLC RJ-11 port, D3-340 (RS-232C).	<b>OP-3CBL-1</b>	\$6.00
<b>Cables used with serial Port2</b>		
AutomationDirect Productivity Series, Do-more/BRX*, CLICK, DirectLOGIC PLC RJ-12 port, DL05, DL06, DL105, DL205, D3-350, D4-450 & H2-WinPLC (RS-232C).	<b>EA-2CBL</b>	\$20.00
DirectLOGIC (VGA Style) 15-pin port, DL06, D2-250 (250-1), D2-260 (RS-232C).	<b>EA-2CBL-1</b>	\$20.00
DirectLOGIC PLC RJ-11 port, D3-340 (RS-232C).	<b>EA-3CBL</b>	\$20.00
DirectLOGIC DL405 PLC 15-pin D-sub port, DL405 (RS-232C).	<b>EA-4CBL-1</b>	\$20.00
DirectLOGIC PLC 25-pin D-sub port, DL405, D3-350, DL305 DCU and all DCM's (RS-232C).	<b>EA-4CBL-2</b>	\$20.00
Allen-Bradley MicroLogix 1000, 1100, 1200, 1400 & 1500 (RS-232C)	<b>EA-MLOGIX-CBL</b>	\$30.00
Allen-Bradley SLC 5-03/04/05, ControlLogix, CompactLogix, FlexLogix DF1 port (RS-232C)	<b>EA-SLC-232-CBL</b>	\$20.00
Allen-Bradley PLC-5 DF1 port (RS-232C)	<b>EA-PLC5-232-CBL</b>	\$20.00
Allen-Bradley MicroLogix, SLC-5-01/02/03, PLC5 DH485 port (RS-232C)	<b>EA-DH485-CBL</b>	\$20.00
GE 90/30 and 90/70, Micro 90, VersaMax Micro (Port 2) 15-pin D-sub port (RS-422A)	<b>EA-90-30-CBL</b>	\$20.00
MITSUBISHI FX Series 25-pin port (RS-422A)	<b>EA-MITSU-CBL</b>	\$20.00
MITSUBISHI FX Series 8-pin mini-DIN (RS-422A)	<b>EA-MITSU-CBL-1</b>	\$20.00
OMRON Host Link C200 Adapter, C500 (RS-232C)	<b>EA-OMRON-CBL</b>	\$20.00
<b>* BX-P-SER-RJ12 is required</b>		



DV-1000CBL



D4-1000CBL



OP-3CBL-1



FA-15HD



FA-CABKIT



EA-2CBL-1



EA-2CBL



EA-4CBL-1



EA-3CBL



EA-MLOGIX-CBL



EA-4CBL-2



EA-PLC5-232-CBL



EA-SLC-232-CBL



EA-DH485-CBL



EA-90-30-CBL



EA-MITSU-CBL



EA-MITSU-CBL-1



EA-OMRON-CBL

# C-more Micro 3-inch EA1 Panel Accessories

## 8-button Keypad Bezel

The 8-button keypad bezel can be used with both the touch and non-touch **C-more** Micro 3-inch EA1 series panels. The keypad includes four directional arrow cursor buttons, and one each of an ESCAPE, MENU, CLEAR and ENTER button. The keypad is intended to be used with the numeric entry object (Style 3) to allow

changing of a value, and can also be used to navigate & select objects when using the non-touch panel version. The keypad bezel is designed for easy drop-in of a **C-more** Micro 3-inch EA1 series panel. No panel configuration required.

Part No. EA-MG-BZ1



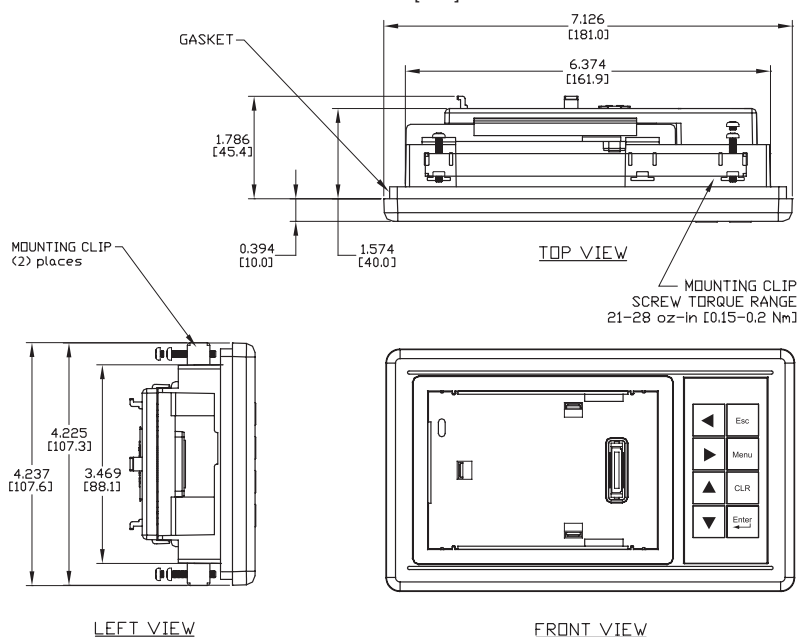
\$64.00

Four directional cursor buttons, and ESC, MENU, CLEAR and ENTER buttons.

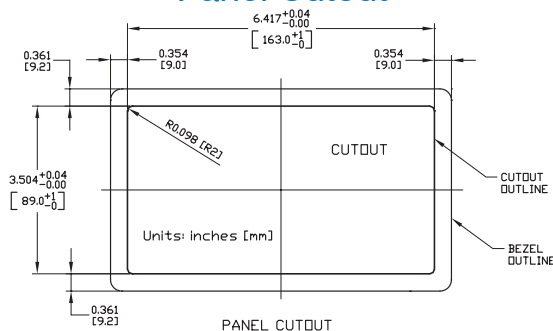


## Dimensions

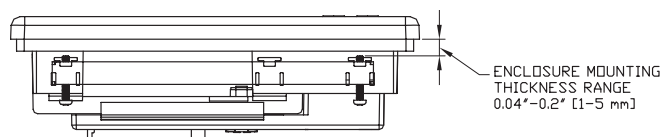
Units: inches [mm]



## Panel Cutout



## Panel Thickness



## 8-Button Keypad Bezel Specifications

Part Number	EA-MG-BZ1
<b>General</b>	
• C-more Micro Panels Supported	EA1-S3ML, EA1-S3MLW, EA1-S3ML-N, EA1-S3MLW-N
• Connection	Connects with expansion connector on the rear of a <b>C-more</b> 3-inch Micro panel. An expansion connector is also located on the rear of the keypad bezel to allow the EA-MG-P1 DC Power Adapter, or the EA-MG-SP1 Serial Port with DC Power Adapter to be attached.
• Power Consumption	None
• Keypad Button Life	Minimum of 500,000 cycles
• Enclosure Mounting	(2) mounting clips, EA-MG-BZ1-BRK, included. Note: The <b>C-more</b> 3-inch Micro panel is installed into the keypad bezel using the EA-MG-S3ML-BRK mounting clips that are supplied with the panel.
<b>Physical</b>	
• Weight	7.05 oz. [200 g]
• Environmental	See environmental specifications at the beginning of this catalog section.



# C-more Micro 3-inch EA1 Panel Accessories

## 20-Button Keypad Bezel

The 20-button keypad bezel can be used with both the touch and non-touch **C-more** Micro 3-inch EA1 series panels. The keypad includes four directional arrow cursor buttons, a full numeric keypad, and one each of an ESCAPE, MENU, CLEAR and ENTER button. The keypad is intended to be used with the numeric entry object (Style 3) to allow changing of a value, and

can also be used to navigate & select objects when using the non-touch panel version. The numeric buttons can be used to enter a new value. The keypad bezel is designed for easy drop-in of a **C-more** Micro 3-inch EA1 series panel. No panel configuration required.

### Part No. EA-MG-BZ2

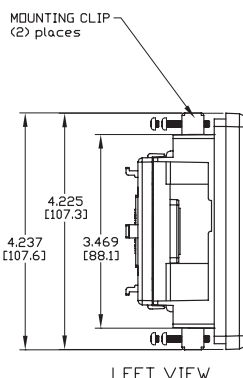
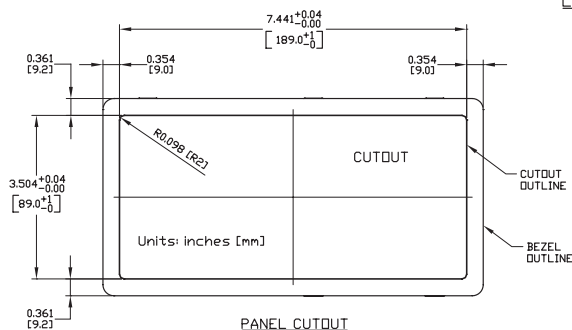


**\$87.00**

Four directional cursor buttons, numeric buttons, and ESC, MENU, CLEAR and ENTER buttons.

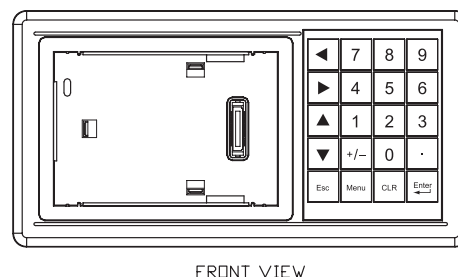
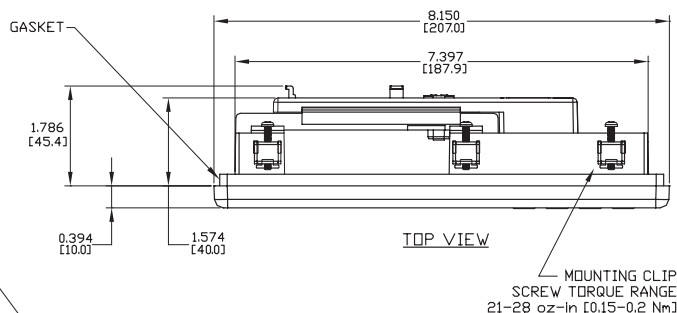


### Panel Cutout

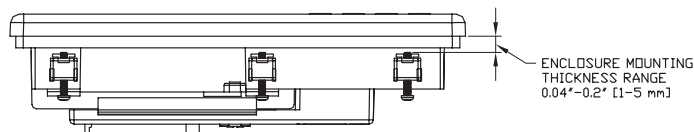


### Dimensions

Units: inches [mm]



### Panel Thickness



### 20-Button Keypad Bezel Specifications

Part Number	EA-MG-BZ2
<b>General</b>	
• <b>C-more Micro Panels Supported</b>	EA1-S3ML, EA1-S3MLW, EA1-S3ML-N, EA1-S3MLW-N
• <b>Connection</b>	Connects with expansion connector on the rear of a 3-inch <b>C-more</b> Micro panel. An expansion connector is also located on the rear of the keypad bezel to allow the EA-MG-P1 DC Power Adapter, or the EA-MG-SP1 Serial Port with DC Power Adapter to be attached.
• <b>Power Consumption</b>	None
• <b>Keypad Button Life</b>	Minimum of 500,000 cycles
• <b>Enclosure Mounting</b>	(6) mounting clips, EA-MG-BZ2-BRK, included. Note: The <b>C-more</b> 3-inch Micro panel is installed into the keypad bezel using the EA-MG-S3ML-BRK mounting clips that are supplied with the panel.
<b>Physical</b>	
• <b>Weight</b>	7.40 oz. [210 g]
<b>Environmental</b>	See environmental specifications at the beginning of this catalog section.

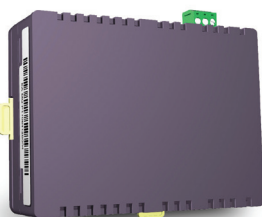
# C-more Micro 3-inch EA1 Panel Accessories

## DC Power Adapter

The **C-more** Micro 3-inch EA1 series panel is designed to use the 5 VDC power that is available from an RJ12 serial communications port found on some **AutomationDirect** PLC's. However, for other devices that do not supply power through their serial communications port, the EA-MG-P1 DC power adapter or EA-MG-SP1 serial port with DC power adapter must

be used. Both adapters require power from a Class 2, 12-24 VDC source. The EA-MG-P1 DC Power Adapter for **C-more** Micro 3-inch EA1 series is designed to easily snap on to the rear of a **C-more** Micro 3-inch EA1 series panel or the rear of an optional Keypad Bezel being used with a **C-more** Micro 3-inch EA1 series panel.

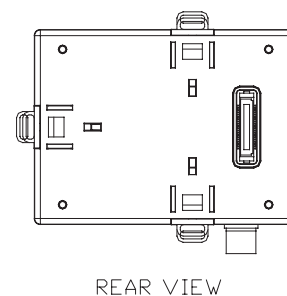
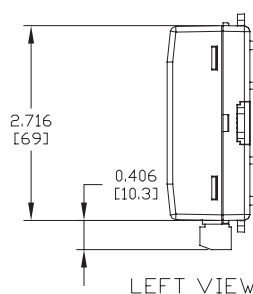
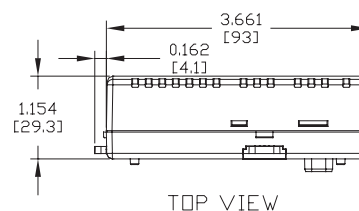
Part No. EA-MG-P1



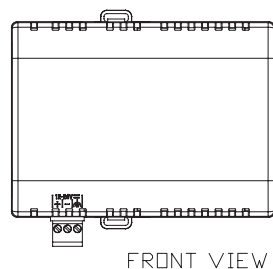
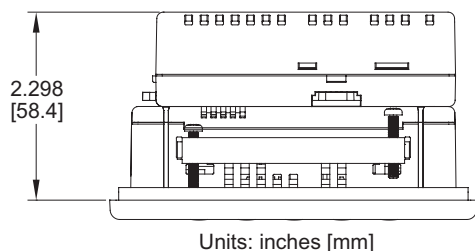
**\$31.50**

## Dimensions

Units: inches [mm]



## Panel overall depth with adapter installed



## DC Power Adapter Specifications

<b>Part Number</b>	EA-MG-P1
<b>Electrical</b>	
• <b>Input Voltage</b>	12-24 VDC
• <b>Input Voltage Range</b>	10.8-26.4 VDC
• <b>Power Consumption</b>	100 mA @ 24 VDC
• <b>Maximum Power</b>	2.90 Watts
• <b>Maximum Inrush Current</b>	5 A @ 500 µs with 12 VDC applied, 10 A @ 500 µs with 24 VDC applied
• <b>Recommended Fuse</b>	Type AGC fast acting glass fuse, 750 mA, 250 VAC, ADC #AGC-75
• <b>Connector Type</b>	3-pin screw type terminal block
<b>Physical</b>	
• <b>Weight</b>	2.8 oz. [80 g]
<b>Environmental</b>	See environmental specifications at the beginning of this catalog section.



**NOTE:** Recommended DC power supply to power either DC Power Adapter, **AutomationDirect** Part No. PSC-24-015 or PSC-24-030.

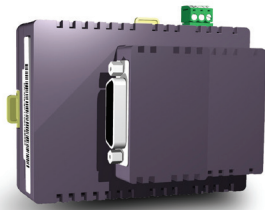
# C-more Micro 3-inch EA1 Panel Accessories

## Serial Port with DC Power Adapter

The **C-more** Micro 3-inch EA1 series panel is designed to use the 5 VDC power that is available from an RJ12 serial communications port of some **AutomationDirect** PLC's. However, for other devices that do not supply power through their serial communications port, the EA-MG-P1 DC power adapter or EA-MG-SP1 serial port with DC power adapter must be used. The EA-MG-SP1, with D-Sub 15-pin RS-232/RS-422/485 serial port, can be

used to connect to a PLC using RS-232 or RS-422/485. The adapter requires power from a Class 2, 12-24 VDC source. This optional Serial Port with DC Power Adapter for **C-more** Micro 3-inch EA1 series is designed to easily snap on to the rear of a **C-more** Micro 3-inch EA1 series panel or the rear of an optional Keypad Bezel being used with a **C-more** Micro 3-inch EA1 series panel.

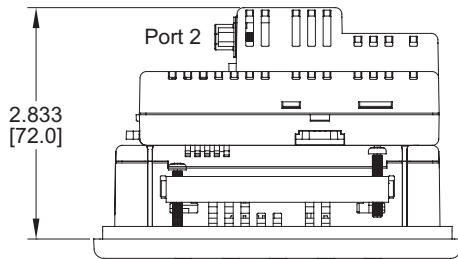
### Part No. EA-MG-SP1



Supports:  
RS-232,  
RS-485,  
& RS-422

**\$54.00**

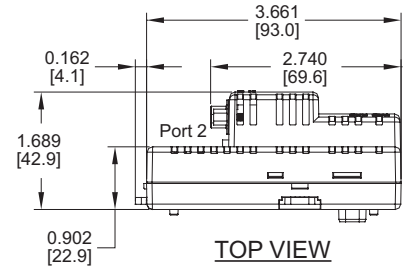
Panel overall depth  
with adapter installed



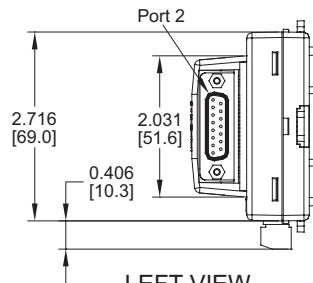
Units: inches [mm]

### Dimensions

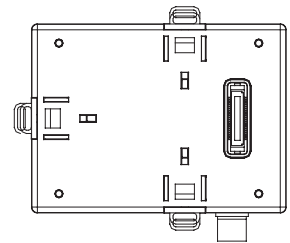
Units: inches [mm]



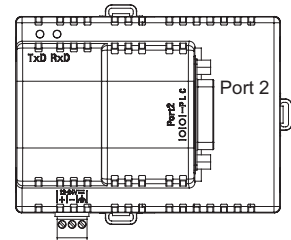
TOP VIEW



LEFT VIEW



REAR VIEW



FRONT VIEW

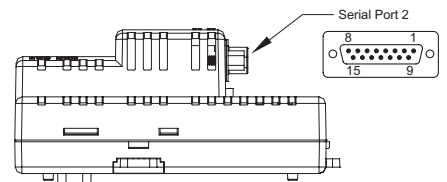
Serial Port w/ DC Power Adapter Specifications	
Part Number	EA-MG-SP1
Serial PLC Interface	
• Interface Standard	RS-232 & RS-485/422
• Adjustable Settings from Software (Dependent on PLC Protocol)	Baud rate: 9600, 19200 or 38400 bits/sec Data bits: 7/8 bits Parity: None, Odd/Even Stop bits: 2/1 bits
• Connector Type	15-pin D-sub connector (female)
Electrical	
• Input Voltage	12-24 VDC
• Input Voltage Range	10.8-26.4 VDC
• Power Consumption	100 mA @ 24 VDC
• Maximum Power	2.90 Watts
• Maximum Inrush Current	5 A @ 500 $\mu$ s with 12 VDC applied, 10 A @ 500 $\mu$ s with 24 VDC applied
• Recommended Fuse	Type AGC fast acting glass fuse, 750 mA, 250 VAC, ADC #AGC-75
• Connector Type	3-pin screw type terminal block
Physical	
• Weight	2.8 oz. [80 g]
• Environmental	See environmental specifications at the beginning of this catalog section.



**NOTE: Recommended DC power supply to power either DC Power Adapter, AutomationDirect Part No. PSC-24-015 or PSC-24-030.**

## PLC Serial Communications Port 2

Pin	Signal	Pin	Signal	Pin	Signal
1	Frame GND	6	LE	11	TXD+ (422/485)
2	TXD (232C)	7	CTS (232C)	12	TXD- (422/485)
3	RXD (232C)	8	RTS (232C)	13	Term. Resistor
4	Supplies +5VDC	9	RXD+ (422/485)	14	do not use
5	Logic GND	10	RXD- (422/485)	15	do not use

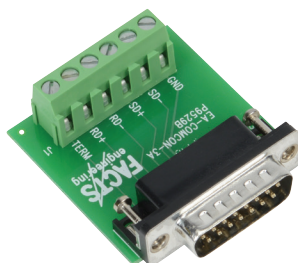


# C-more Micro 3-inch EA1 Panel Accessories

## D-SUB 15-pin to Terminal Block Adapter

DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, straight cable entry. For use with **C-more** Micro EA1 series 3in with EA1-MG-SP1, **C-more** Micro EA3 series 8in and 10in HMLs, **C-more** EA9 8in, 10in, 12in and 15in HMLs.

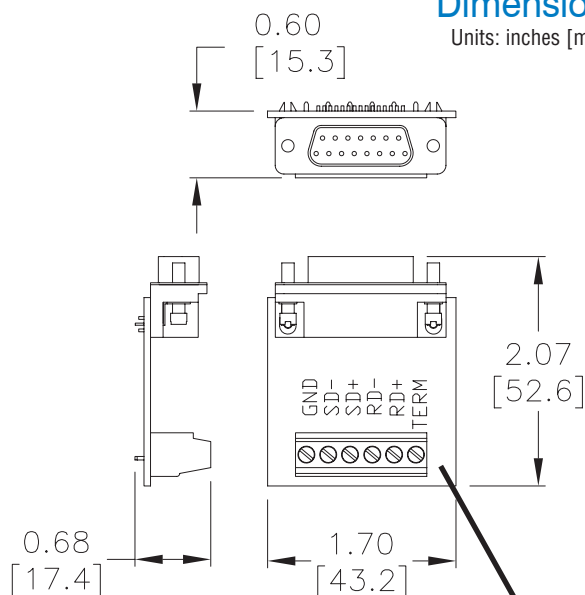
**Part No.**  
**EA-COMCON-3A**



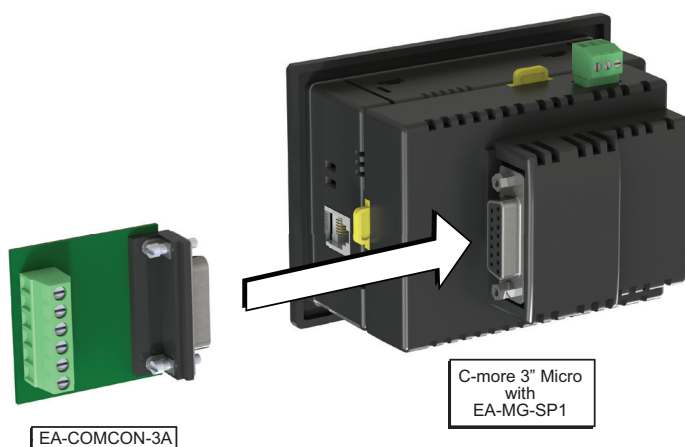
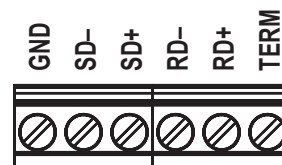
**\$19.00**

### Dimensions

Units: inches [mm]



### Terminals



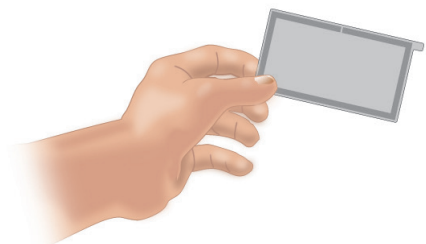


# C-more Micro 3-inch EA1 Panel Accessories

## Clear Screen Overlay

Optional clear screen overlay used to protect **C-more** 3-inch Micro displays from minor scratches and wear.  
Package contains 5 clear screen overlays.

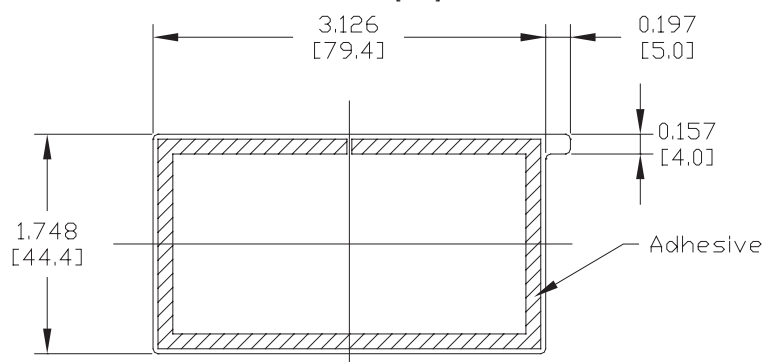
**Part No. EA-MG-COV-CL**



**\$35.50**

## Dimensions

Units: inches [mm]



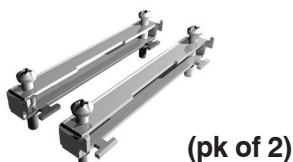
# C-more Micro 3-inch EA1 Replacement Parts

The optional replacement parts can be used to replace damaged, worn or lost **C-more** 3-inch Micro panel components.

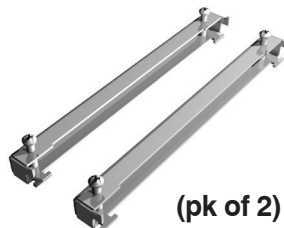
## Replacement parts at a glance:

Part Number	Description	Price
<b>EA-MG-S3ML-BRK</b>	Panel mounting brackets, replacement. Package of 2. For use with <b>C-more</b> Micro 3in and EA3-T4CL HMIs.	\$17.50
<b>EA-MG-BZ1-BRK</b>	Panel mounting brackets, replacement. Package of 2. For use with <b>C-more</b> Micro bezel EA-MG-BZ1.	\$17.50
<b>EA-MG-BZ2-BRK</b>	Panel mounting brackets, replacement. Package of 8. For use with <b>C-more</b> Micro 4in and 6in panels, all 6in bezels, and 3in bezel EA-MG-BZ2.	\$18.50
<b>EA-MG-DC-CON</b>	DC 3-terminal power connector, replacement. Package of 5. For use with all <b>C-more</b> Micro 4in, 6in, 8in and 10in panels, and power adapters EA-MG-P1 and EA-MG-SP1.	\$14.00
<b>EA-MG-S3ML-GSK</b>	Panel mounting gasket, replacement. For use with 3in <b>C-more</b> Micro panels.	\$12.00
<b>EA-MG-BZ1-GSK</b>	Panel mounting gasket, replacement. For use with 3in <b>C-more</b> Micro bezel EA-MG-BZ1.	\$15.00
<b>EA-MG-BZ2-GSK</b>	Panel mounting gasket, replacement. For use with 3in <b>C-more</b> Micro bezel EA-MG-BZ2.	\$15.00
<b>EA-MG-S3ML-FKL</b>	Function key label insert, replacement. Package of 10. For use with <b>C-more</b> Micro 3in panels. (5) blank labels (5) landscape F1-F5 label included.	\$9.75

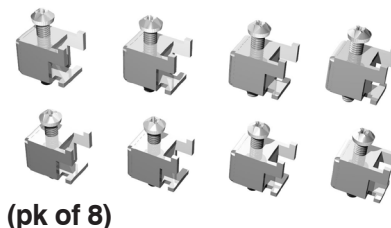
**Panel Mounting Clips**  
Part No. EA-MG-S3ML-BRK



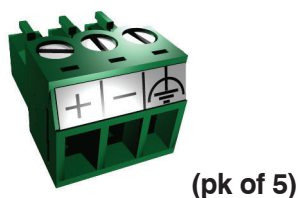
**Keypad Bezel 1 Mounting Clips**  
Part No. EA-MG-BZ1-BRK



**Keypad Bezel 2 Mounting Clips**  
Part No. EA-MG-BZ2-BRK



**DC Power Connector**  
Part No. EA-MG-DC-CON



**3-inch Panel Gasket**  
Part No. EA-MG-S3ML-GSK



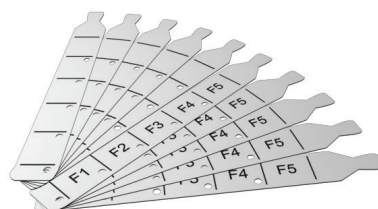
**3-inch Keypad Bezel 1 Gasket**  
Part No. EA-MG-BZ1-GSK





**3-inch Keypad Bezel 2 Gasket**  
Part No. EA-MG-BZ2-GSK



**3-inch Panel Function Keys Label Inserts**  
Part No. EA-MG-S3ML-FKL





# C-more Micro 4-inch & 6-inch EA1 Panels Overview



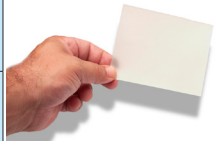
C-more 4-inch and 6-inch EA1 Micro Panels			
Part Number		Description	Price
EA1-T4CL		<b>C-more</b> Micro EA1 series touch screen HMI, 4in color TFT LCD, 320 x 240, QVGA, supports (1) serial and (1) USB port.	\$356.00
EA1-T6CL		<b>C-more</b> Micro EA1 series touch screen HMI, 6in color TFT LCD, 320 x 240, QVGA, supports (1) serial and (1) USB port.	\$432.00





**Note:** Software and Firmware Version 3.00 or later is required with model EA1-T4CL. Software and Firmware Version 2.5 or later is required with model EA1-T6CL. Available for free download at [www.automationdirect.com](http://www.automationdirect.com).

C-more Micro Programming Software			
Part Number		Description	Price
EA-MG-PGMSW		<b>C-more</b> Micro Windows-based programming software, CD. For use with <b>C-more</b> Micro panels. Requires USB port connection from PC to <b>C-more</b> Micro panel.	\$25.00
USB-CBL-AB3		USB cable, 3ft/0.9m cable length, standard A plug to standard B plug. For use with Productivity, <b>C-more</b> and Do-more programming and most USB devices.	\$7.50
USB-CBL-AB6		USB cable, 6ft/1.8m cable length, standard A plug to standard B plug. For use with Productivity, <b>C-more</b> and Do-more programming and most USB devices.	\$9.50
USB-CBL-AB10		USB cable, 10ft/3m cable length, standard A plug to standard B plug. For use with Productivity, <b>C-more</b> and Do-more programming and most USB devices.	\$18.00
USB-CBL-AB15		USB cable, 15ft/4.5m cable length, standard A plug to standard B plug. For use with Productivity, <b>C-more</b> and Do-more programming and most USB devices.	\$22.50

# C-more Micro 4-inch & 6-inch EA1 Panels Overview

C-more 4-inch and 6-inch EA1 Panel Accessories			
Part Number		Description	Price
<b>EA-ADPTR-4</b>		DSUB port adapter, 15-pin male to 15-pin female, right angle cable entry. For use with <b>C-more</b> Micro EA1 series 4in and 6in HMIs, <b>C-more</b> Micro EA3 series 3in, 4in, and 6in HMIs, <b>C-more</b> EA9 6in and 7in HMIs.	\$39.00
<b>EA-COMCON-3</b>		DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, right angle cable entry. For use with <b>C-more</b> Micro EA1 series 4in and 6in HMIs, <b>C-more</b> Micro EA3 series 3in, 4in, and 6in HMIs, <b>C-more</b> EA9 6in and 7in HMIs.	\$42.00
<b>EA-4-COV2</b>		Screen protector, replacement, non-glare, 4in. Package of 3. For use with <b>C-more</b> Micro EA1-T4CL 4in HMIs.	\$33.50
<b>EA-6-COV2</b>		Screen protector, non-glare, 6in. Package of 3. For use with <b>C-more</b> and <b>C-more</b> Micro 6in panels.	\$37.00

EA1-T6CL Panel Accessories			
Part Number		Description	Price
<b>EA-MG6-BZ2</b>		Keypad bezel, 20 predefined function keys. For use with EA1-T6CL <b>C-more</b> Micro HMIs being used in Landscape (horizontal mounted) mode.	\$107.00
<b>EA-MG6-BZ2P</b>		Keypad bezel, 21 predefined function keys. For use with EA1-T6CL <b>C-more</b> Micro HMIs being used in Portrait (vertical mounted) mode.	\$89.00



# C-more Micro 4-inch EA1 TFT Touch Panel

Model EA1-T4CL **C-more** 4-inch Micro touch panel has a 4.1-inch TFT LCD 320 x 240 pixel display and a palette of 32K colors for customizing objects, screen backgrounds and displaying bitmap graphics. It features five user-defined function keys, each key with a user-defined red LED indicator. The panel can display up to 40 lines by 80 characters of static text and up to 30 lines by 40 characters of dynamic text with embedded variables and phrases mixed with graphics in landscape orientation. Portrait orientation can display 54 lines by 59 characters of static text and 40 lines by 40 characters of dynamic text. It is rated UL for use on a flat surface of Type 1, 4X enclosure (for indoor use only). The **C-more** 4-inch Micro TFT panels are powered from a Class 2, 12-24 VDC power supply\*.

Part No. EA1-T4CL



Function	Available
Ethernet	No
USB Programming Port	Yes
Serial RJ12 Port	No
Serial DB15 Port	Yes



\$356.00

## Features

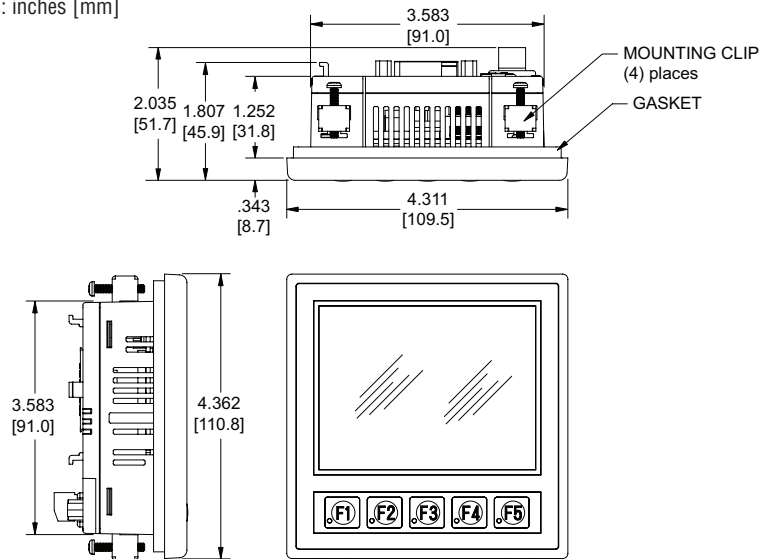
- Standard 1/4 DIN mounting cutout
- Touch screen display
- Free downloadable programming software
- 320 x 240 pixel display with up to 40 lines by 80 characters of text and graphics in landscape mode
- Up to 40 lines by 40 characters of dynamic text with embedded variables and phrases mixed with graphics
- 5 programmable function keys can change with every screen. Can increment / decrement values, trigger recipes, view index of screens.
- 32K colors
- Optional replaceable clear screen overlay
- 3,276 KB memory
- Built-in USB type B programming port
- Built-in 15-pin serial communications port
- Built-in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and red LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase



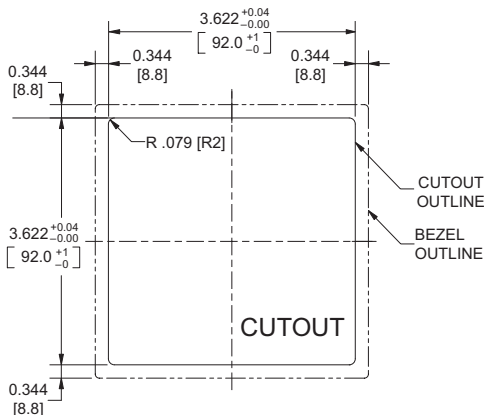
**\*NOTE:** The EA1-T4CL can be powered through Port1 when connected to a PC for programming, the screen brightness is diminished because the panel is running in Low-Power Mode. For full brightness, connect an external Class 2, 12-24 VDC power source to the 4-inch panel's power connection. An external Class 2, 12-24 VDC power source must be used when the panel is installed in its application.

## Dimensions

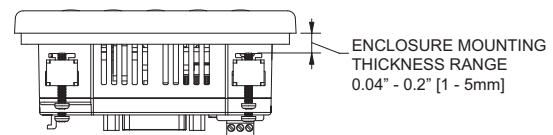
Units: inches [mm]



## Panel Cutout - Standard 1/4 DIN



## Panel Thickness



**NOTE:** The C-more 4-inch Micro cutout dimensions are not equivalent to previous AutomationDirect text panels. The C-more 4-inch Micro panels will not fit in cutouts for DV-1000, EZText, Optimate panels or C-more panels.

# C-more Micro 6-inch EA1 TFT Touch Panel

Model EA1-T6CL **C-more** 6" Micro touch panel has a 5.7-inch TFT LCD 320 x 240 pixel display and a palette of 32K colors for customizing objects, screen backgrounds and displaying bitmap graphics. It features five user-defined function keys, each key with a user-defined red LED indicator. The panel can display up to 40 lines by 80 characters of static text and up to 40 lines by 40 characters of dynamic text with embedded variables and phrases mixed with graphics in landscape orientation. Portrait orientation can display 53 lines by 60 characters of static text and 40 lines by 40 characters of dynamic text. It is rated UL for use on a flat surface of Type 1, 4X enclosure (for indoor use only). The **C-more** 6" Micro TFT panels are powered from a Class 2, 12-24 VDC power supply\*.

Part No. **EA1-T6CL**

Shown in Landscape (Horizontal) mode



Function	Available
Ethernet	No
USB Programming Port	Yes
Serial RJ12 Port	No
Serial DB15 Port	Yes



**\$432.00**

## Features

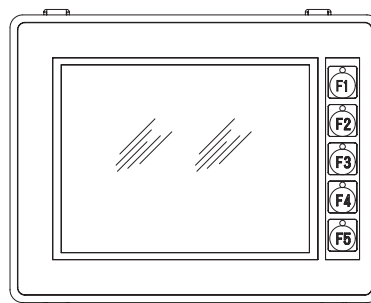
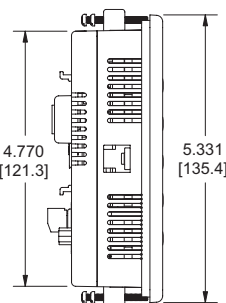
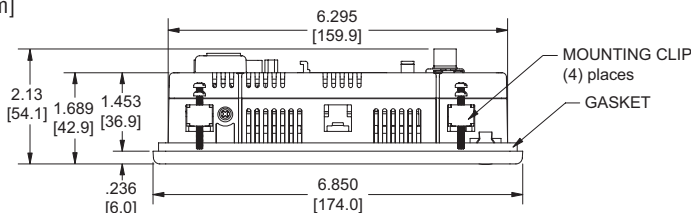
- Touch screen display
- Free downloadable programming software
- 320 x 240 pixel display with up to 40 lines by 80 characters of text and graphics in landscape mode
- Up to 40 lines by 40 characters of dynamic text with embedded variables and phrases mixed with graphics
- 5 programmable function keys can change with every screen. Can increment / decrement values, trigger recipes, view index of screens.
- 32K colors
- 2 optional keypad bezels, 20-button landscape and 21-button portrait
- Optional replaceable clear screen overlay
- 3,276 KB memory
- Built-in USB type B programming port
- Built-in 15-pin serial communications port
- Built-in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and red LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase



**\*NOTE: The EA1-T6CL can be powered through Port1 when connected to a PC for programming, the screen brightness is diminished because the panel is running in Low-Power Mode. For full brightness, connect an external Class 2, 12-24 VDC power source to the 6" panel's power connection. An external Class 2, 12-24 VDC power source must be used when the panel is installed in its application.**

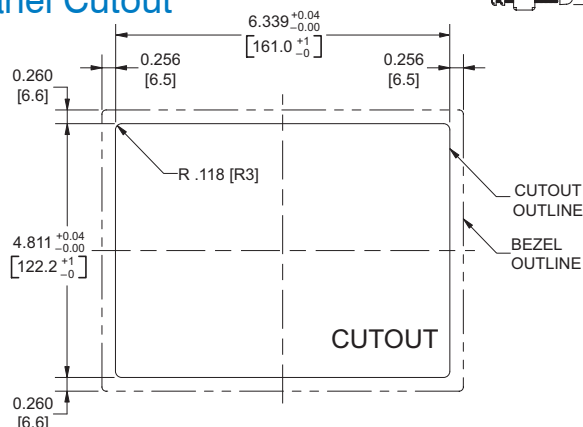
## Dimensions

Units: inches [mm]

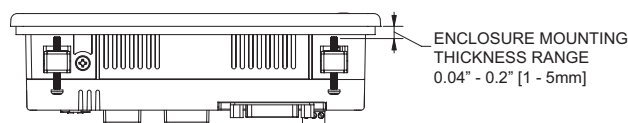


**NOTE: Don't forget the optional keypad bezels shown in the Accessories section.**

## Panel Cutout



## Panel Thickness



**NOTE: The C-more 6" Micro cutout dimensions are not equivalent to previous AutomationDirect text panels. The C-more 6" Micro panels will not fit in cutouts for DV-1000, EZText, Optimate panels or C-more 6" panels.**

# C-more Micro 4-inch & 6-inch EA1 Specifications

EA1-T4CL and EA1-T6CL Specifications		
Part Number	EA1-T4CL	EA1-T6CL
Description	320 x 240 pixel LCD display (Landscape Mode), five user defined keypad function buttons, and five user defined LED's	
Display		
• Type	4.1" TFT Color LCD, graphical characters	5.7" TFT Color LCD, graphical characters
• Resolution	320 (W) x 240 (H) pixel (Landscape Mode) 240 (W) x 320 (H) pixel (Portrait Mode)	
• Color	32768 colors	
• Display Brightness (Reference)	USB Bus Power (Programming) - 180 nits (typ) High Power Mode - 360 nits (typ)	
• Viewing Area Size	3.357" (W) x 2.54" (H) [85.26 mm x 64.62 mm]	4.574" (W) x 3.483" (H) [116.2 mm x 87.4 mm]
• Active Area Size	3.250" (W) x 2.438" (H) [82.56 mm x 61.92 mm]	4.535" (W) x 3.400" (H) [115.2 mm x 86.4 mm]
• Brightness	Adjusted from the panel's built-in configuration setup menu	
• Viewing Angle	3, 9 o'clock axis → 35 degrees 6 o'clock axis → 50 degrees 12 o'clock axis → 20 degrees	3, 9 o'clock axis → 80 degrees 6 o'clock axis → 65 degrees 12 o'clock axis → 80 degrees
Backlight		
• Type	LED	
• Color	White	
• User Replaceable	No	
Touch Screen		
•Type	Analog touch panel, single touch*	
• Operation	82 gram force [0.8 N] maximum	
• Life	Minimum of 1,000,000 cycles	
Features		
• User Memory	3276 kBytes	
• Number of Screens	Up to 999 – limited by project memory usage	
• Beep (Internal)	Yes	
• Keypad Function Buttons	Five user defined function key buttons with the ability to customize label with an overlay. Minimum of 500,000 cycles	
• Keypad Function Button LEDs	Each function key button includes a red LED that can be user programmed.	
• Programming Port	USB Type B	
• Serial Communications	15-pin D-sub serial communications port (RS-232, RS-485 / 422)	
Screen Objects		
• Functional Devices	Pushbutton, Switch, Indicator Button, Indicator Light, Graphic Indicator Light, Numeric Display, Numeric Entry, Inc/Dec Value, Bar Graph, Bitmap Button, Static Bitmap, Dynamic Bitmap, Recipe Button, Static Text, Lookup Text, Dynamic Text, Screen Change Pushbutton, Screen Selector, Adjust Contrast, Function, Key Configuration Object, Real Time Graphics Line Graph, Analog Meter.	
• Static Shapes	Lines, Rectangles, Circles and Frames	
• Displayable Fonts	Fixed fonts: 4x6, 6x6, 6x6B, 6x8, 8x16, 8x32, 8x64, 16x16, 16x32, 16x64, 32x16, 32x32, 32x64, and Windows fonts	
*Note: The Touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.		
C-more Micro 4-inch & 6-inch EA1 panel specifications continued on next page.		

# C-more Micro 4-inch & 6-inch EA1 Specifications

EA1-T4CL and EA1-T6CL Specifications (cont'd)		
Electrical:		
	USB Bus Power (Programming)	High Power Mode
• Input Voltage Range	5.0 VDC (4.75 – 5.25 VDC)	12/24 VDC (10.2 – 26.4 VDC)
• Input Power	Supplied from a PC USB	Supplied from an external Class 2, 12-24 VDC power source
• Power Consumption	2W	4.5 W - EA1-T4CL 6.5 W - EA1-T6CL
• Recommended Fuse	No fuse required when directly connected to a PC with recommended cable.	Type AGC fast acting glass fuse, 750 mA, 250 VAC, ADC p/n AGC-75
• Maximum Inrush Current	4.5 A for 800 μs	8 A for 800 μs - EA1-T4CL 13 A for 800 μs - EA1-T6CL
• Acceptable External Power Drop Duration	Maximum 1ms	
Environmental:		
• Operating Temperature	0 to 50 °C (32 to 122 °F) Maximum surrounding air temperature rating: 50 °C	
• Storage Temperature	–20 to +60 °C (–4 to +140 °F)	
• Humidity	5–95% RH (non-condensing)	
• Environmental Air	For use in Pollution Degree 2 environment	
• Vibration	IEC60068-2-6 (Test Fc), 5-9 Hz: 3.5 mm amplitude, 9-150 Hz: 1.0G, sweeping, at a rate of 1 octave/min. (±10%), 10 sweep cycles per axis on each of 3 mutually perpendicular axes	
• Shock	IEC60068-2-27 (Test Ea), 15 G peak, 11ms duration, three shocks in each direction per axis, on 3 mutually perpendicular axes (total of 18 shocks)	
• Noise Immunity	NEMA ICS3-304 ( EN61131-2 ) RFI, (145MHz, 440Mhz 10W @ 10cm) Impulse 1000V @ 1μS pulse EN61000-4-2 (ESD), EN61000-4-3 (RFI), EN61000-4-4 (FTB), EN61000-4-5 (Surge) EN61000-4-6 (Conducted), EN61000-4-8 (Power frequency magnetic field immunity)	
• Enclosure	For use on a flat surface of Type 1, 4X enclosure (Indoor use only)	
• Agency Approvals	CE (EN61131-2), UL508, CUL Canadian C22.2 No. 142-M95, UL File E157382, CSA 234884	
Physical:		
• Enclosure Mounting Thickness Range	0.04" – 0.2" [1 – 5 mm]	
• Mounting Clip Screw Torque Range	21 – 28 oz-in [0.15 – 0.2 N-m]	
• Weight	14.99 oz. (425 g)	30.69 oz. (870 g)

PLC Drivers	
Serial - port2 only	
AutomationDirect Productivity Series	Allen-Bradley DF1 Half Duplex
AutomationDirect CLICK	Allen-Bradley DF1 Full Duplex
AutomationDirect Do-more / BRX*	Allen-Bradley PLC5 DF1
AutomationDirect K-sequence	Allen-Bradley DH485
AutomationDirect DirectNET	GE SNPX (90/30, 90/70, Micro 90, VersaMax Micro)
AutomationDirect Modbus	Mitsubishi FX
AutomationDirect SOLO	Mitsubishi (Q, QnA)
AutomationDirect GS Drives	Omron Host Link (C200 Adapter, C500)
Modicon Modbus RTU	Omron FINS Serial (CJ1, CS1)
Entivity Modbus RTU	Siemens PPI (S7-200 CPU)
* BX-P-SER-RJ12 is required	



**NOTE: EA1-T4CL and EA1-T6CL cannot be powered by a PLC and cannot communicate with a PLC through Port1**



# C-more Micro 4-inch & 6-inch EA1 Power Connection Wiring

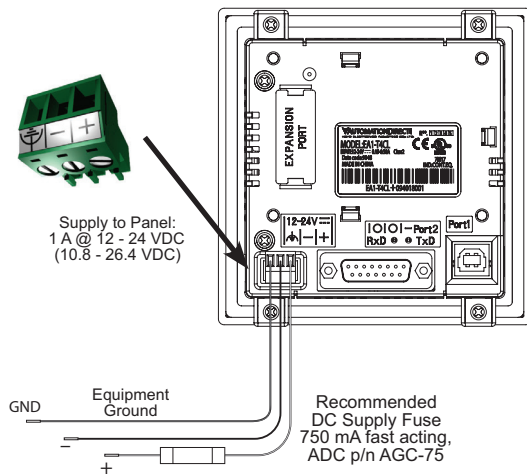
## Providing power to the touch panel

- 1.) The panel is powered by a Class 2, 1 Amp @ 12-24 VDC power source in normal operation. Recommended power supplies are AutomationDirect part number PSC-24-015 or PSC-24-030.
- 2.) EA1-T4CL and EA1-T6CL are powered during programming through a USB A-to-B cable such as USB-CBL-AB6. The panel will operate in Low-power mode when powered by the PC and result in a dim screen.\*
- 3.) EA1-T4CL and EA1-T6CL cannot be powered from a PLC.

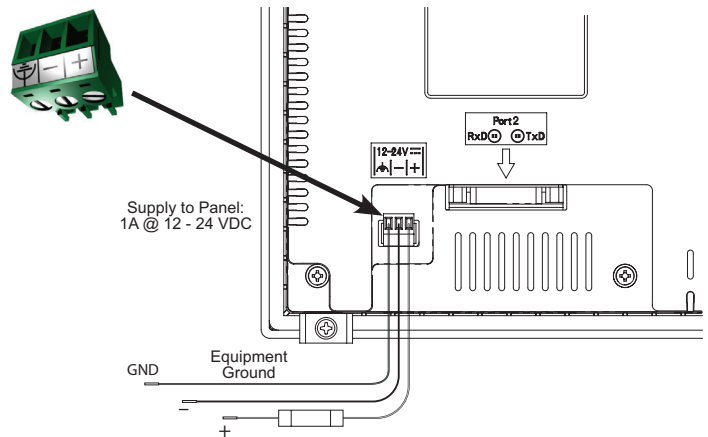


**\*NOTE: EA1-T4CL and EA1-T6CL can be powered through Port1 when connected to a PC for programming, the screen brightness is diminished because the panel is running in Low-Power Mode. For full brightness, connect an external Class 2, 12-24 VDC power source to the panel's power connection. An external Class 2, 12-24 VDC power source must be used when the panel is installed in its application.**

## EA1-T4CL typical wiring diagram



## EA1-T6CL typical wiring diagram



**NOTE: Recommended DC power supply to power the EA1-T4CL, AutomationDirect Part No. PSC-24-015 or PSC-24-030.**



**NOTE: Recommended DC power supply to power the EA1-T6CL, AutomationDirect Part No. PSC-24-030.**

# C-more Micro 4-inch & 6-inch EA1 PLC Connections

## Cabling requirements

The **C-more** 4" and 6" Micro panels can communicate through the built-in 15-pin serial port (Port2) via RS-232, RS-422 and RS-485 using these cables.

- EA-2CBL — connects to CLICK, Do-more/BRX\*\*, Productivity Series, DL05, DL105, DL205, D3-350 and D4-450 phone jack.
- EA-2CBL-1 — connects to D2-250, D250-1, D2-260, DL06 VGA connector.

The EA1-T4CL and EA1-T6CL can only communicate to a controller through the 15-pin serial Port2. Port 2. EA3-T6CL can communicate to a controller through the 15-pin or the RJ12 serial ports. The USB port is for programming only.

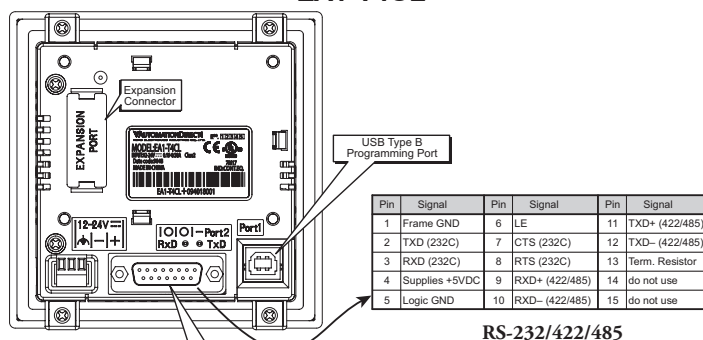
## Drivers for your Controller

- AutomationDirect Productivity Series – serial
- AutomationDirect Do-more/BRX\*\* – serial
- AutomationDirect CLICK (Modbus)– serial
- Direct**LOGIC K-sequence, *Direct*LOGIC *Direct*NET, *Direct*LOGIC Modbus (Koyo Addressing)
- Modbus RTU
- Allen Bradley DF1 Full Duplex, Allen Bradley DF1 Half Duplex, Allen Bradley PLC5 DF1, AB DH485
- Omron Host Link (C200 Adapter, C500) Omron FINS serial (CJ1, CS1)
- GE SNPX (90/30, 90/70, Micro 90, VersaMax Micro)
- Mitsubishi Melsec FX
- Siemens PPI
- Entivity Modbus RTU
- AutomationDirect GS Drives
- AutomationDirect SOLO Temperature Controllers
- Mitsubishi Q/QnA

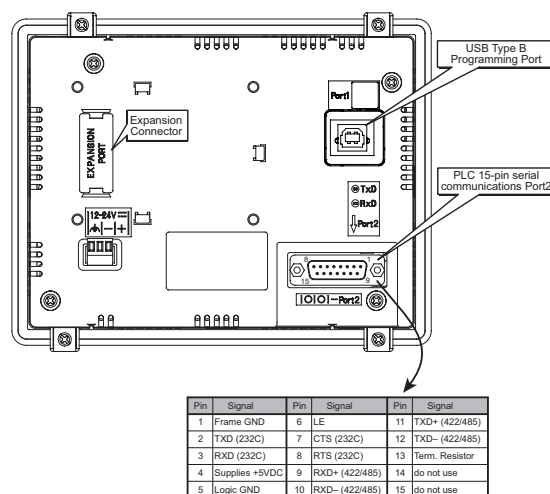
**\*\*BX-P-SER2-RJ12 is required**

## Communication Ports

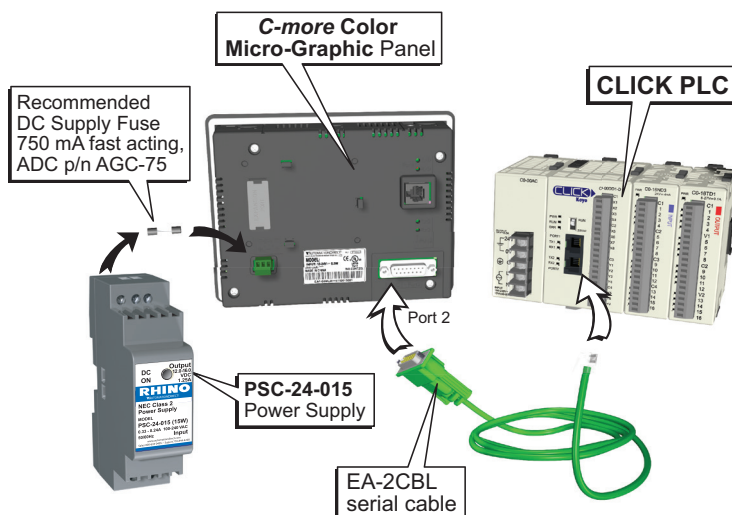
### EA1-T4CL



### EA1-T6CL



## C-more EA3 Micro Port 2 to CLICK PLC Port 2



# C-more Micro 6-inch EA1 Panel Accessories

## 20-Button Keypad Bezel, Landscape Orientation

The 20-button keypad bezel is designed to be used with the EA1-T6CL Micro panel. The keypad includes four directional arrow cursor buttons, a full numeric keypad, and one each of an ESCAPE, MENU, CLEAR and ENTER button. The keypad is intended to be used with the numeric entry object (Style 3) to allow changing of a value, and can also be used to

navigate and select screen objects. The numeric buttons can be used to enter a new value, along with the ENTER and CLEAR buttons. The EA1-T6CL panel mounts directly into the bezel; no panel configuration is required.

**Part No. EA-MG6-BZ2**



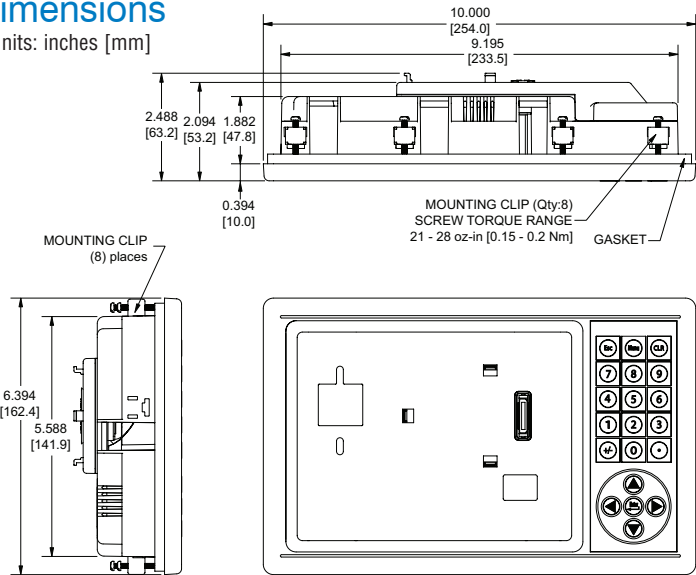
**\$107.00**

**Four directional  
cursor buttons,  
numeric buttons and  
ESC, MENU, CLEAR  
and ENTER buttons.**

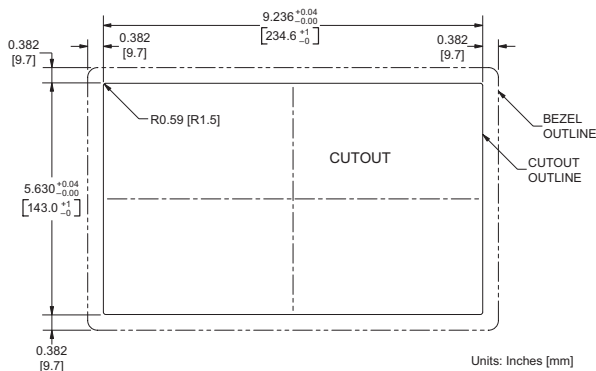


## Dimensions

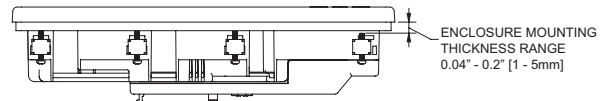
Units: inches [mm]



## Panel Cutout



## Panel Thickness



## 20-Button Keypad Bezel Specifications

Part Number	EA-MG6-BZ2
<b>General</b>	
• Micro Panel Supported	EA1-T6CL
• Connection	Connects with expansion connector on the rear of the EA1-T6CL panel.
• Power Consumption	None
• Keypad Button Life	Minimum of 500,000 cycles
• Enclosure Mounting	(8) mounting clips, EA-MG-BZ2-BRK, included.
	Note: The EA1-T6CL panel is installed into the keypad bezel using the (4) mounting clips, EA-MG-BZ2-BRK, that are supplied with the panel.
<b>Physical</b>	
• Weight	26.1 oz. [740 g]
<b>Environmental:</b>	See Micro panel specifications at the beginning of this catalog section

# C-more Micro 6-inch EA1 Panel Accessories

## 21-Button Keypad Bezel, Portrait Orientation

The 21-button keypad bezel is designed to be used with EA1-T6CL Micro panels. The keypad includes four directional arrow cursor buttons, a full numeric keypad, and one each of an ESCAPE, MENU, CLEAR and two ENTER buttons. The keypad is intended to be used with the numeric entry object (Style 3) to allow changing of a value, and can also be used to

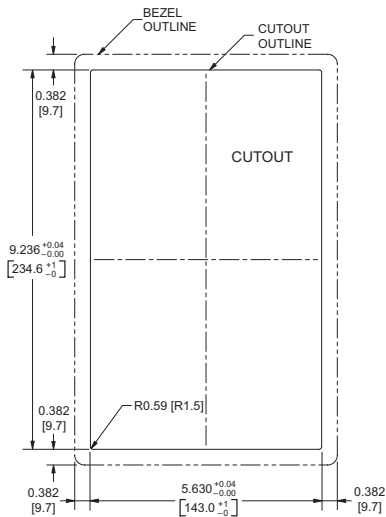
navigate & select screen objects. The numeric buttons can be used to enter a new value, along with the ENTER and CLEAR buttons. The EA1-T6CL panel mounts directly into the bezel; no panel configuration is required.

**Part No. EA-MG6-BZ2P**



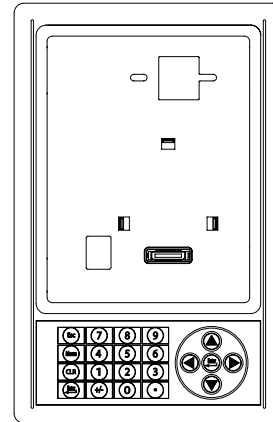
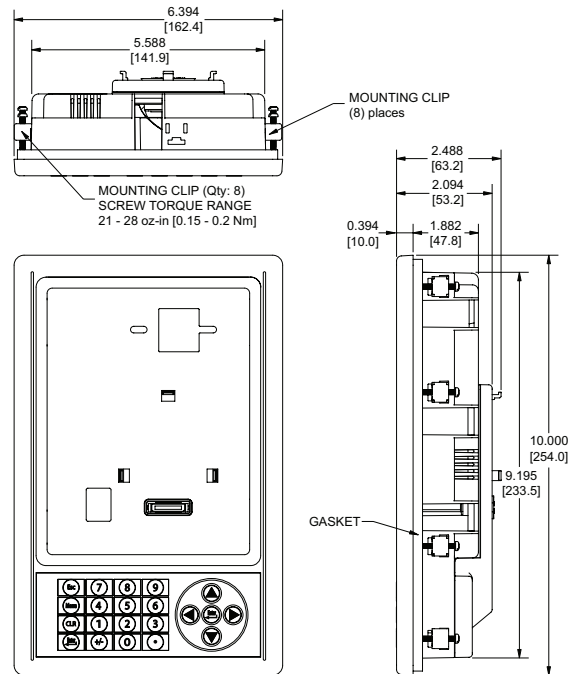
**\$89.00**

### Panel Cutout



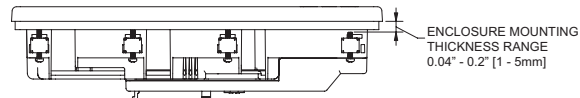
### Dimensions

Units: inches [mm]



**Four directional cursor buttons, numeric buttons, and ESC, MENU, CLEAR and ENTER buttons.**

### Panel Thickness



### 21-Button Keypad Bezel Specifications

Part Number	EA-MG6-BZ2P
<b>General</b>	
• Micro Panel Supported	EA1-T6CL
• Connection	Connects with expansion connector on the rear of the EA1-T6CL panel.
• Power Consumption	None
• Keypad Button Life	Minimum of 500,000 cycles
• Enclosure Mounting	(8) mounting clips, EA-MG-BZ2-BRK, included.
	Note: The EA1-T6CL panel is installed into the keypad bezel using the (4) mounting clips, EA-MG-BZ2-BRK, that are supplied with the panel.
<b>Physical</b>	
• Weight	26.1 oz. [740 g]
<b>Environmental</b>	
See Micro panel specifications at the beginning of this catalog section	

# C-more Micro 4-inch & 6-inch EA1 Panel Accessories

## D-SUB 15-pin 90-degree Communication Port Adapter

The EA-ADPTR-4 adapter plugs into the 15-pin serial port on the rear of a EA1-T4CL or EA1-T6CL panel to allow a controller communication cable to be plugged in at a 90 degree angle to reduce panel depth requirements. 15-pin straight through pin-out. UL Recognized.

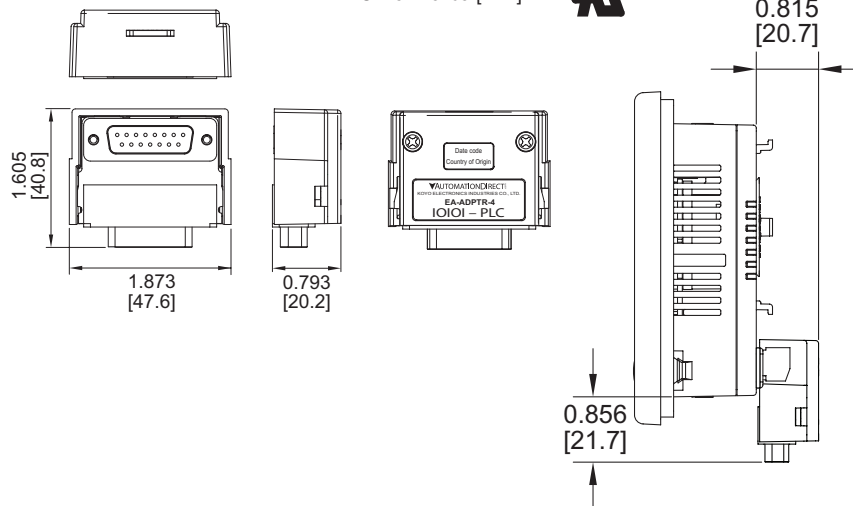
**Part No.**  
**EA-ADPTR-4**



**\$39.00**

### Dimensions

Units: inches [mm]



## D-SUB 15-pin to Terminal Block Adapter

The EA-COMCON-3 adapter plugs into the 15-pin serial port on the rear of a EA1-T4CL or EA1-T6CL panel to allow wire terminal connections for an RS-422/RS-485/DH485 PLC communication cable. UL Recognized.

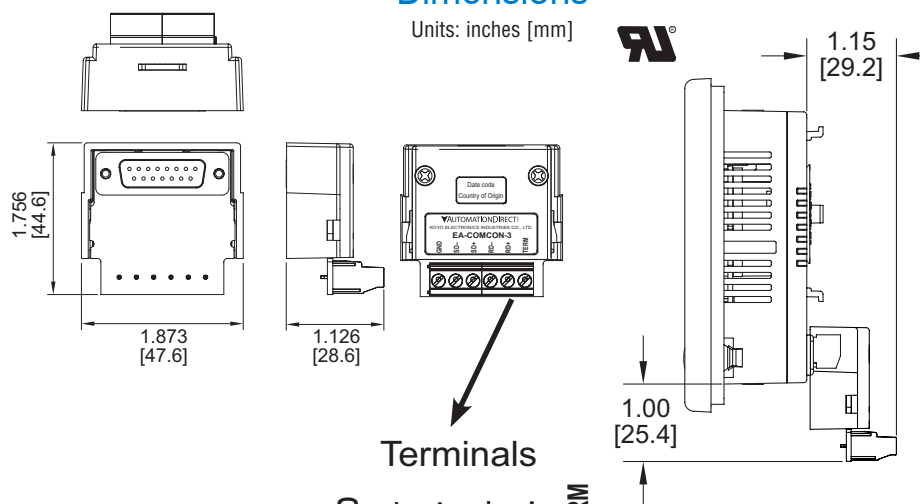
**Part No.**  
**EA-COMCON-3**



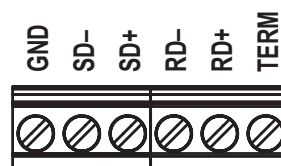
**\$42.00**

### Dimensions

Units: inches [mm]



**Terminals**





# C-more Micro 4-inch & 6-inch EA1 Panel Accessories

## Clear Screen Overlay

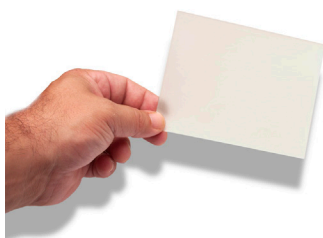
Optional clear screen overlay used to protect **C-more** Micro displays from minor scratches and wear. Package contains 3 clear screen overlays.

**Part No. EA-4-COV2**

**\$33.50**

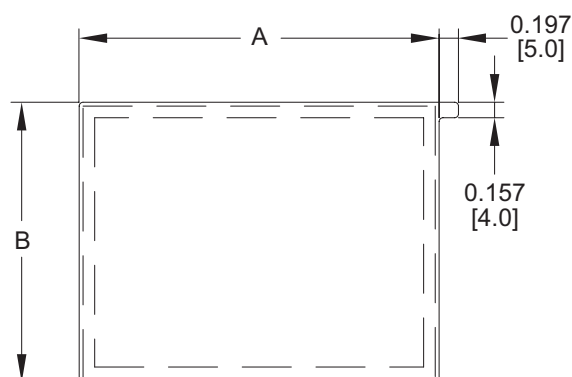
**Part No. EA-6-COV2**

**\$37.00**



## Dimensions

Units: inches [mm]



Part Number	Dimensions - inch [mm]	
	A	B
<b>EA-4-COV2</b>	3.66 [93.0]	2.85 [72.5]
<b>EA-6-COV2</b>	4.91 [124.8]	3.80 [96.4]

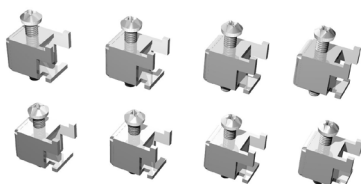
# C-more Micro 4-inch & 6-inch EA1 Replacement Parts

The optional replacement parts can be used to replace damaged, worn or lost EA1-T4CL or EA1-T6CL components.

## Replacement parts at a glance:

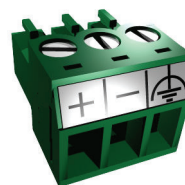
Part Number	Description	Price
<b>EA-MG-BZ2-BRK</b>	Panel mounting brackets, replacement. Package of 8. For use with <b>C-more</b> Micro 4in and 6in panels, all 6in bezels, and 3in bezel EA-MG-BZ2.	\$18.50
<b>EA-MG-DC-CON</b>	DC 3-terminal power connector, replacement. Package of 5. For use with all <b>C-more</b> Micro 4in, 6in, 8in and 10in panels, and power adapters EA-MG-P1 and EA-MG-SP1.	\$14.00
<b>EA-MG4-GSK</b>	Panel mounting gasket, replacement. For use with <b>C-more</b> Micro EA1-T4CL 4in HMLs.	\$8.75
<b>EA-MG4-FKL</b>	Function key label insert, replacement. Package of 4. For use with <b>C-more</b> Micro EA1-T4CL 4in HMLs. (3) blank label inserts and (1) landscape F1-F5 label insert included.	\$14.00
<b>EA-MG6-S6ML-GSK</b>	Panel mounting gasket, replacement. For use with 6in <b>C-more</b> Micro panels.	\$11.00

**Panel Mounting Clips**  
Part No. EA-MG-BZ2-BRK



(pk of 8)

**DC Power Connector**  
Part No. EA-MG-DC-CON

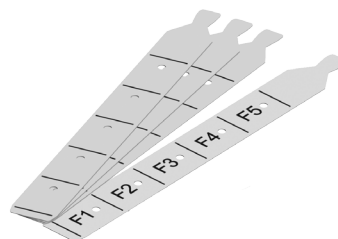


(pk of 5)

**Panel Gasket**  
Part No. EA-MG4-GSK



**Function Keys Label Inserts**  
Part No. EA-MG4-FKL








(pk of 4; 3 blank, 1 F1-F5 for landscape)

**Panel Gasket**  
Part No. EA-MG6-S6ML-GSK











# C-more Micro EA3 Series Selection Guide

<b>C-more Micro EA3 Series Panels</b>			
<b>Part Number</b>		<b>Description</b>	<b>Price</b>
<b>EA3-S3ML-RN</b>		<b>C-more</b> Micro EA3 series HMI, 3in monochrome STN LCD, 128 x 64 pixel, LED backlight, supports (1) serial port.	\$98.00
<b>EA3-S3ML-R</b>		<b>C-more</b> Micro EA3 series touch screen HMI, 3in monochrome STN LCD, 128 x 64 pixel, LED backlight, supports (1) serial port.	\$146.00
<b>EA3-S3ML</b>		<b>C-more</b> Micro EA3 series touch screen HMI, 3in monochrome STN LCD, 128 x 64 pixel, supports (2) serial, (1) Ethernet and (1) USB ports.	\$198.00
<b>EA3-T4CL</b>		<b>C-more</b> Micro EA3 series touch screen HMI, 4in color TFT LCD, widescreen, 480 x 272 pixel, WQVGA, supports (2) serial, (1) Ethernet and (1) USB port.	\$269.00
<b>EA3-T6CL</b>		<b>C-more</b> Micro EA3 series touch screen HMI, 6in color TFT LCD, 320 x 240 pixel, QVGA, supports (2) serial and (1) USB port.	\$299.00
<b>EA3-T8CL</b>		<b>C-more</b> Micro EA3 series touch screen HMI, 8in color TFT LCD, 800 x 600 pixel, SVGA, supports (2) serial and (1) USB port.	\$749.00
<b>EA3-T10CL</b>		<b>C-more</b> Micro EA3 series touch screen HMI, 10in color TFT LCD, 800 x 600 pixel, SVGA, supports (2) serial and (1) USB port.	\$899.00



<b>Part Number</b>	<b>Panel Software / Firmware Version Required</b>
EA3-S3ML-RN	4.30 or later
EA3-S3ML-R	4.30 or later
EA3-S3ML	4.20 or later
EA3-T4CL	4.20 or later
EA3-T6CL	3.6 or later
EA3-T8CL	3.5 or later
EA3-T10CL	3.5 or later

# C-more Micro EA3 Series Selection Guide



C-more Micro Programming Software			
Part Number		Description	Price
<b>EA-MG-PGMSW</b>		<b>C-more</b> Micro Windows-based programming software, CD. For use with <b>C-more</b> Micro panels. Requires USB port connection from PC to <b>C-more</b> Micro panel.	\$25.00
<b>EA-MG-PGM-CBL</b>		USB/RS-232 programming cable assembly, USB Type A male to RJ12 male, 6ft cable length. For use with <b>C-more</b> Micro panels, CLICK CPUs, Do-more H2 series CPUs, and DirectLogic CPUs.	\$43.00
<b>USB-CBL-AB3</b>		USB cable, 3ft/0.9m cable length, standard A plug to standard B plug. For use with Productivity, <b>C-more</b> and Do-more programming and most USB devices.	\$7.50
<b>USB-CBL-AB6</b>		USB cable, 6ft/1.8m cable length, standard A plug to standard B plug. For use with Productivity, <b>C-more</b> and Do-more programming and most USB devices.	\$9.50
<b>USB-CBL-AB10</b>		USB cable, 10ft/3m cable length, standard A plug to standard B plug. For use with Productivity, <b>C-more</b> and Do-more programming and most USB devices.	\$18.00
<b>USB-CBL-AB15</b>		USB cable, 15ft/4.5m cable length, standard A plug to standard B plug. For use with Productivity, <b>C-more</b> and Do-more programming and most USB devices.	\$22.50
<b>USB-CBL-AMICB6</b>		Programming cable, USB A to micro-B USB, 6ft cable length. For use with Productivity2000 CPUs and most USB devices.	\$5.00


C-more Micro EA3 Series Panel Accessories			
Part Number		Description	Price
<b>EA-ECOM</b>		<b>C-more</b> Micro communication expansion module, (1) RJ45 10/100 Mbps Ethernet port. For use with EA3 series 6in, 8in and 10in HMIs. For programming and PLC communications.	\$50.00
<b>EA-ADPTR-4</b>		DSUB port adapter, 15-pin male to 15-pin female, right angle cable entry. For use with <b>C-more</b> Micro EA1 series 4in and 6in HMIs, <b>C-more</b> Micro EA3 series 3in, 4in, and 6in HMIs, <b>C-more</b> EA9 6in and 7in HMIs.	\$39.00
<b>EA-COMCON-3</b>		DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, right angle cable entry. For use with <b>C-more</b> Micro EA1 series 4in and 6in HMIs, <b>C-more</b> Micro EA3 series 3in, 4in, and 6in HMIs, <b>C-more</b> EA9 6in and 7in HMIs.	\$42.00
<b>EA-COMCON-3A</b>		DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, straight cable entry. For use with <b>C-more</b> Micro EA1 series 3in with EA1-MG-SP1, <b>C-more</b> Micro EA3 series 8in and 10in HMIs, <b>C-more</b> EA9 8in, 10in, 12in and 15in HMIs.	\$19.00
<b>EA-MG-COV-CL</b>		Screen protector, clear, 3in. Package of 5. For use with <b>C-more</b> Micro 3in HMIs.	\$35.50
<b>EA-4-COV3</b>		Screen protector, replacement, non-glare, 4in. Package of 3. For use with <b>C-more</b> Micro EA3-T4CL 4in HMIs.	\$33.50
<b>EA-6-COV2</b>		Screen protector, non-glare, 6in. Package of 3. For use with <b>C-more</b> and <b>C-more</b> Micro 6in panels.	\$37.00
<b>EA-8-COV2</b>		Screen protector, non-glare, 8in. Package of 3. For use with <b>C-more</b> and <b>C-more</b> Micro 8in panels.	\$40.00
<b>EA-10-COV2</b>		Screen protector, non-glare, 10in. Package of 3. For use with <b>C-more</b> and <b>C-more</b> Micro 10in panels.	\$45.50

# C-more Micro EA3-S3ML-RN and EA3-S3ML-R Panels Overview

C-more Micro EA3 Series Panels			
Part Number		Description	Price
EA3-S3ML-RN		<b>C-more</b> Micro EA3 series HMI, 3in monochrome STN LCD, 128 x 64 pixel, LED backlight, supports (1) serial port.	\$98.00
EA3-S3ML-R		<b>C-more</b> Micro EA3 series touch screen HMI, 3in monochrome STN LCD, 128 x 64 pixel, LED backlight, supports (1) serial port.	\$146.00

Part Number	Panel Software / Firmware Version Required
EA3-S3ML-RN	4.30 or later
EA3-S3ML-R	

C-more Micro Programming Software			
Part Number		Description	Price
EA-MG-PGMSW		<b>C-more</b> Micro Windows-based programming software, CD. For use with <b>C-more</b> Micro panels. Requires USB port connection from PC to <b>C-more</b> Micro panel.	\$25.00
EA-MG-PGM-CBL		USB/RS-232 programming cable assembly, USB Type A male to RJ12 male, 6ft cable length. For use with <b>C-more</b> Micro panels, CLICK CPUs, Do-more H2 series CPUs, and DirectLogic CPUs.	\$43.00

C-more Micro EA3 Series Panel Accessories			
Part Number		Description	Price
EA-MG-COV-CL		Screen protector, clear, 3in. Package of 5. For use with <b>C-more</b> Micro 3in HMIs.	\$35.50



# C-more Micro 3-inch EA3 Non-Touch Panel

Model EA3-S3ML-RN **C-more** 3-inch Micro touch panel has a 3.1-inch STN LCD monochrome display and twelve selectable LED-driven backlight colors. It features a 128 x 64 pixel display, and five user-defined function keys each with a user-defined red LED indicator. This **C-more** Micro panel is powered through the RJ-12 serial communications port of most AutomationDirect PLC's or from the USB port of a PC using the EA-MG-PGM-CBL programming cable assembly. This panel supports only AutomationDirect PLC protocols and Modbus RTU. (For other controllers consider the EA3-S3ML). The panel is NEMA 1 as shipped but is NEMA 4/4X indoor, when installed correctly with the optional gasket EA-MG-S3ML-GSK (sold separately).

Part No. EA3-S3ML-RN



**NOTE: EA3-S3ML-RN is NEMA 1 compliant. Add optional gasket EA-MG-S3ML-GSK for NEMA 4/4X compliance (sold separately).**

**\$98.00**

## Features

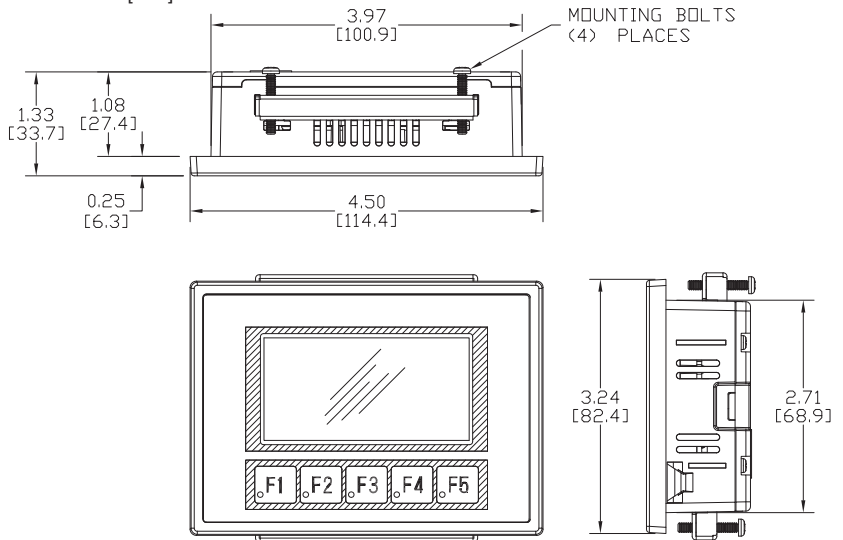
- Free downloadable programming software
- 128 x 64 pixel display with up to 10 lines by 32 characters of text and graphics
- Up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics
- 5 programmable function keys can change with every screen. Can increment / decrement values, trigger recipes, view index of screens.
- 12-Color LED backlight for longer lifetime; Red, Green, Amber, Yellow, Lime, Pink 1, Pink 2, Pink 3, Emerald 1, Emerald 2, Emerald 3 and White
- Optional clear screen overlay
- 1MB memory
- Built-in RJ12 serial communications port
- Built-in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and red LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 1 compliant: NEMA 4/4X, IP65 compliant when mounted correctly with optional gasket (EA-MG-S3ML-GSK sold separately), indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase



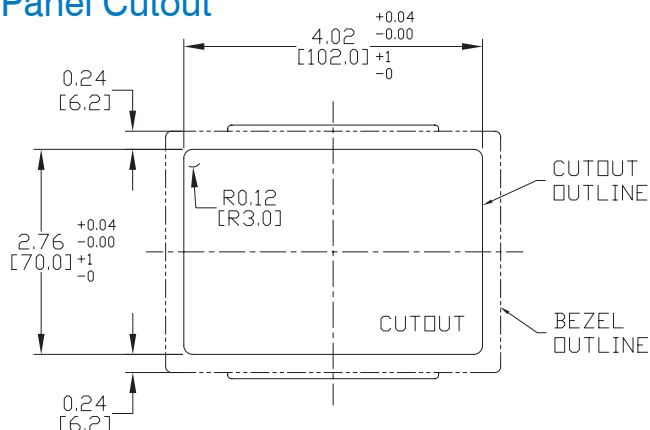
Function	Available
Ethernet	No
USB Programming Port	No
Serial RJ12 Port	Yes
Serial DB15 Port	No

## Dimensions

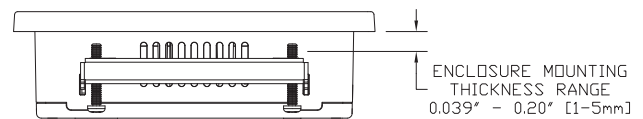
Units: inches [mm]



## Panel Cutout



## Panel Thickness



# C-more Micro 3-inch EA3 Touch Panel

Model EA3-S3ML-R **C-more** 3-inch Micro touch panel has a 3.1-inch STN LCD monochrome display and twelve selectable LED-driven backlight colors. It features a 128 x 64 pixel display, and five user-defined function keys each with a user-defined red LED indicator. This **C-more** Micro panel is powered through the RJ-12 serial communications port of most AutomationDirect PLC's or from the USB port of a PC using the EA-MG-PGM-CBL programming cable assembly. This panel supports only AutomationDirect PLC protocols and Modbus RTU. (For other controllers consider the EA3-S3ML). The panel is NEMA 4/4X indoor when installed correctly.

Part No. EA3-S3ML-R



\$146.00



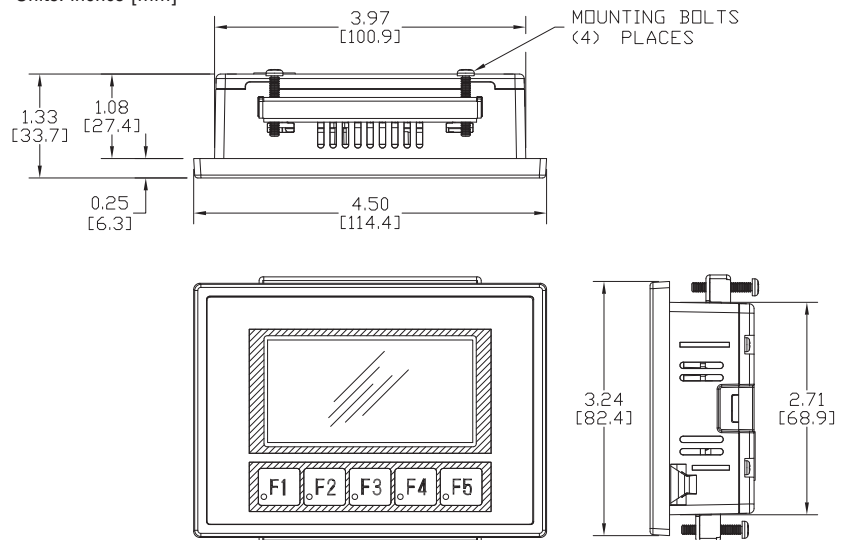
## Features

- Touch screen display
- Free downloadable programming software
- 128 x 64 pixel display with up to 10 lines by 32 characters of text and graphics
- Up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics
- 5 programmable function keys can change with every screen. Can increment / decrement values, trigger recipes, view index of screens.
- 12-Color LED backlight for longer lifetime; Red, Green, Amber, Yellow, Lime, Pink 1, Pink 2, Pink 3, Emerald 1, Emerald 2, Emerald 3 and White
- Optional clear screen overlay
- 1MB memory
- Built-in RJ12 serial communications port
- Built-in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and red LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase

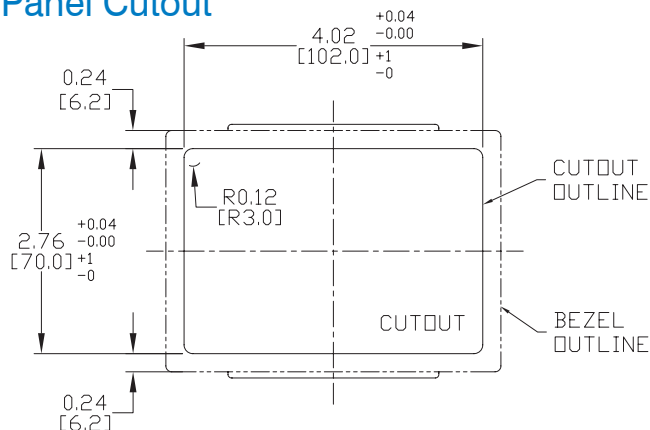
Function	Available
Ethernet	No
USB Programming Port	No
Serial RJ12 Port	Yes
Serial DB15 Port	No

## Dimensions

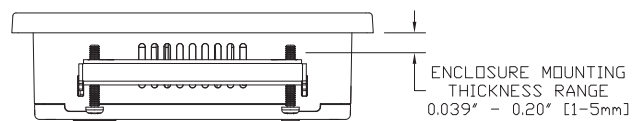
Units: inches [mm]



## Panel Cutout



## Panel Thickness





# C-more Micro EA3-S3ML-RN and EA3-S3ML-R Panels Specifications

EA3-S3ML-RN and EA3-S3ML-R Specifications		
Part Number:	EA3-S3ML-RN	EA3-S3ML-R
Description:	128 x 64 pixel LCD display Five user defined keypad function buttons with five user defined LED indicators	
Display:		
• Type	3.1" STN Monochrome with LED Backlight	
• Resolution	128 (W) x 64 (H) pixel	
• Color	2 colors (normal / inverse)	
• Display Brightness (Reference)	W: Typ. 150 nit G: Typ. 150 nit R: Typ. 40 nit	
• Viewing Area Size	2.78" (W) x 1.53" (H) 70.7 mm x 38.8 mm	
• Active Area Size	2.62" (W) x 1.31" (H) mm 66.52 mm x 33.24 mm	
• Contrast / Brightness	Adjusted from the panel's built-in configuration setup menu	
• Viewing Angle (Landscape Mode)	3, 6, 9 o'clock axis → 45 degrees 12 o'clock axis → 30 degrees	
Backlight:		
• Type	LED	
• Color	White, Red, Green (12 colors)	
• User Replaceable	No	
Touch Screen:		
•Type	N/A	Analog resistive, single touch*
• Operation		100 gram force [0.8 N] maximum
• Life		Minimum of 1,000,000 cycles
Features:		
• User Memory	1MB	
• Number of Screens	Up to 999 – limited by project memory usage	
• Beep (Internal)	Yes	
• Keypad Function Buttons	Five user defined function key buttons with the ability to customize label with an overlay. Minimum of 500,000 cycles	
• Keypad Function Button LEDs	Each function key button includes a red LED that can be user programmed.	
• Programming Port	RJ12 serial	
• Serial Communications	RJ12 serial communications port (RS-232)	
• Ethernet Communications	N/A	
Screen Objects		
• Functional Devices	Pushbutton, Switch, Indicator Button, Indicator Light, Graphic Indicator Light, Numeric Display, Numeric Entry, Inc/Dec Value, Bar Graph, Bitmap Button, Static Bitmap, Dynamic Bitmap, Recipe Button, Static Text, Lookup Text, Dynamic Text, Screen Change Pushbutton, Screen Selector, Adjust Contrast, Function, Key Configuration Object, Real Time Graphics Line Graph, Analog Meter.	
• Static Shapes	Lines, Rectangles, Circles and Frames	
• Displayable Fonts	Fixed fonts: 4x6, 6x6, 6x6B, 6x8, 8x16, 8x32, 8x64, 16x16, 16x32, 16x64, 32x16, 32x32, 32x64, and Windows fonts	
*Note: The Touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.		
C-more Micro EA3-S3ML-RN and EA3-S3ML-R panel specifications continued on next page.		



# C-more Micro EA3-S3ML-RN and EA3-S3ML-R Panels Specifications




EA3-S3ML-RN and EA1-S3ML-R Specifications (cont'd)		
Part Number:	EA3-S3ML-RN	EA3-S3ML-R
Electrical:		
• Input Power	RJ12 port to any AutomationDirect PLC RJ12 port	
• Power Consumption	1.05W (RJ12)	
• Maximum Inrush Current	3.5 A for 50µs	
• Acceptable External Power Drop Duration	Maximum 1ms	
Environmental:		
• Operating Temperature	0 to 50 °C (32 to 122 °F); IEC 60068-2-14 (Test Nb, Thermal Shock)	
• Storage Temperature	-20 to +60 °C (-4 to +140 °F) IEC 60068-2-1 (Test Ab, Cold) IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)	
• Humidity	5–95% RH (non-condensing)	
• Environmental Air	For use in Pollution Degree 2 environment, no corrosive gases permitted	
• Housing Material	ABS Plastic	
• Gasket Material	Ships without gasket	Silicone Rubber
• Overlay Sheet Material	PET	
• Vibration	IIEC60068-2-6 (Test Fc)	
• Shock	IEC60068-2-27 (Test Ea)	
• Altitude	Up to 2000m (6562ft)	
• Noise Immunity	(EN61131-2) 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)  (Local Test) RFI, (145MHz, 440Mhz 10W @ 10cm) Impulse 1000V @ 1µs pulse	
• Enclosure	With EA-MG-S3ML-GSK - NEMA 250 type 4/4X indoor use only, UL50 type 4X indoor use only IP-65 indoor use only (Not tested by UL) (When mounted correctly)  Without EA-MG-S3ML-GSK - NEMA 250 type 1 indoor use only, UL type 1 indoor use only IP-20 indoor use only (Not tested by UL) (When mounted correctly)	
• Agency Approvals	CE (EN61131-2), UL61010, CUL Canadian C22.2, UL E157382, RoHS (2011/65/EU) To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page	
Physical		
• Enclosure Mounting Thickness Range	0.04" – 0.2" [1 – 5 mm]	
• Mounting Clip Screw Torque Range	21 – 28 oz-in [0.15 – 0.20 Nm]	
• Weight	5.4 oz. (152g)	5.5 oz. (156g)

# C-more Micro EA3-S3ML and EA3-T4CL Panels Overview

C-more Micro EA3 Series Panels			
Part Number		Description	Price
EA3-S3ML		<b>C-more</b> Micro EA3 series touch screen HMI, 3in monochrome STN LCD, 128 x 64, supports (2) serial, (1) Ethernet and (1) USB ports.	\$198.00
EA3-T4CL		<b>C-more</b> Micro EA3 series touch screen HMI, 4in color TFT LCD, widescreen, 480 x 272, WQVGA, supports (2) serial, (1) Ethernet and (1) USB ports.	\$269.00

Part Number	Panel Software / Firmware Version Required
EA3-S3ML	4.20 or later
EA3-T4CL	

C-more Micro Programming Software			
Part Number		Description	Price
EA-MG-PGMSW		<b>C-more</b> Micro Windows-based programming software, CD. For use with <b>C-more</b> Micro panels. Requires USB port connection from PC to <b>C-more</b> Micro panel.	\$25.00
USB-CBL-AMICB6		Programming cable, USB A to micro-B USB, 6ft cable length. For use with Productivity2000 CPUs and most USB devices.	\$5.00

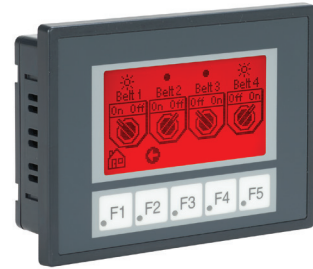
C-more Micro EA3 Series Panel Accessories			
Part Number		Description	Price
EA-ADPTR-4		DSUB port adapter, 15-pin male to 15-pin female, right angle cable entry. For use with <b>C-more</b> Micro EA1 series 4in and 6in HMIs, <b>C-more</b> Micro EA3 series 3in, 4in, and 6in HMIs, <b>C-more</b> EA9 6in and 7in HMIs.	\$39.00
EA-COMCON-3		DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, right angle cable entry. For use with <b>C-more</b> Micro EA1 series 4in and 6in HMIs, <b>C-more</b> Micro EA3 series 3in, 4in, and 6in HMIs, <b>C-more</b> EA9 6in and 7in HMIs.	\$42.00
EA-MG-COV-CL		Screen protector, clear, 3in. Package of 5. For use with <b>C-more</b> Micro 3in HMIs.	\$35.50
EA-4-COV3		Screen protector, replacement, non-glare, 4in. Package of 3. For use with <b>C-more</b> Micro EA3-T4CL 4in HMIs.	\$33.50



# C-more Micro 3-inch EA3 Touch Panel

Model EA3-S3ML **C-more** 3-inch Micro touch panel has a 3.1-inch STN LCD monochrome display and twelve selectable LED-driven backlight colors. It features a 128 x 64 pixel display, and five user-defined function keys each with a user-defined red LED indicator. The EA3-S3ML is powered from a Class 2, 12-24 VDC power supply\*. This **C-more** Micro panel can receive power from the serial communications port of most AutomationDirect PLC's or through the USB port when connected to a PC for programming. The panel is NEMA 4/4X indoor when installed correctly.

Part No. EA3-S3ML



**\*NOTE: Recommended DC power supply to power the C-more Micro Panel, AutomationDirect Part No. PSC-24-010.**

**\$198.00**



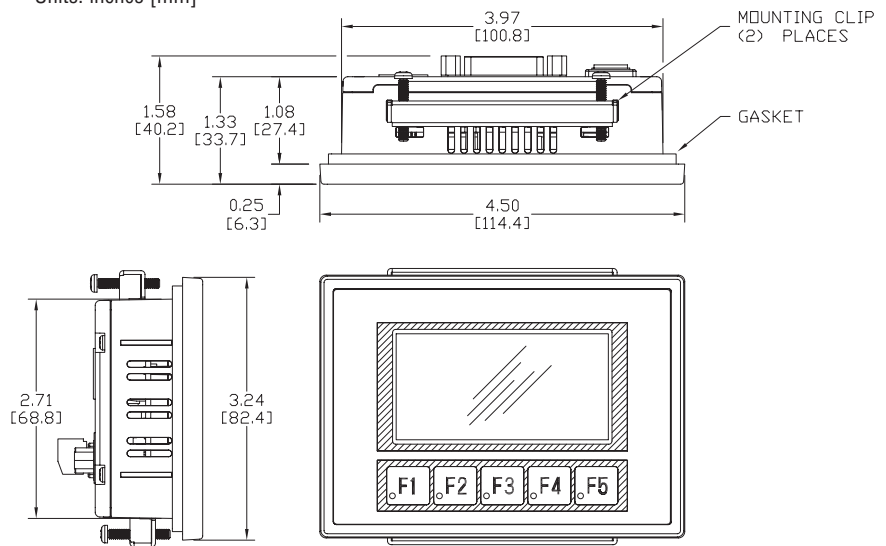
## Features

- Touch screen display
- Free downloadable programming software
- 128 x 64 pixel display with up to 10 lines by 32 characters of text and graphics
- Up to 10 lines by 21 characters of dynamic text with embedded variables and phrases mixed with graphics
- 5 programmable function keys can change with every screen. Can increment / decrement values, trigger recipes, view index of screens.
- 12-Color LED backlight for longer lifetime; Red, Green, Amber, Yellow, Lime, Pink 1, Pink 2, Pink 3, Emerald 1, Emerald 2, Emerald 3 and White
- Optional clear screen overlay
- 3MB memory
- Built-in USB type Micro-B programming port
- Built-in RJ45 Ethernet Port
- Built-in 15-pin serial communications port
- Built-in RJ12 serial communications port
- Built-in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and red LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase

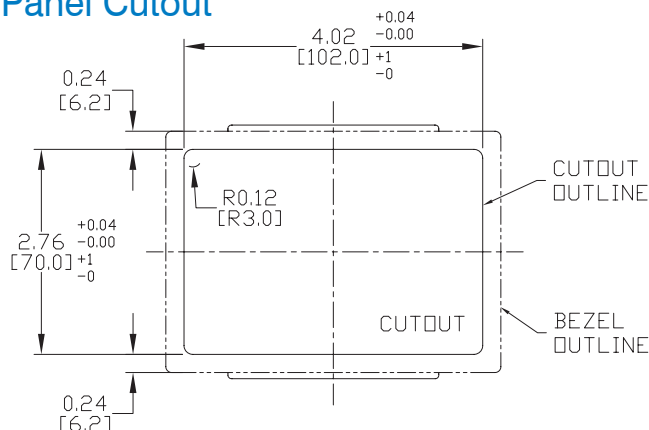
Function	Available
Ethernet	Yes (Built-in)
USB Programming Port	Yes
Serial RJ12 Port	Yes
Serial DB15 Port	Yes

## Dimensions

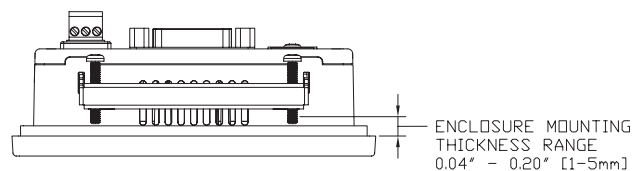
Units: inches [mm]



## Panel Cutout



## Panel Thickness



# C-more Micro 4-inch EA3 Touch Panel

Model EA3-T4CL **C-more** 4" Micro touch panel has a 4.3-inch TFT LCD 482 x 272 pixel display (WQVGA) and a palette of 32K colors for customizing objects, screen backgrounds and displaying bitmap graphics. EA3-T4CL is powered from a Class 2, 12-24 VDC power supply\*. The panel is NEMA 4/4X indoor when installed correctly.

Part No. **EA3-T4CL**



**\$269.00**

**\*NOTE: Recommended DC power supply to power the C-more Micro Panel, AutomationDirect Part No. PSC-24-010.**

## Features

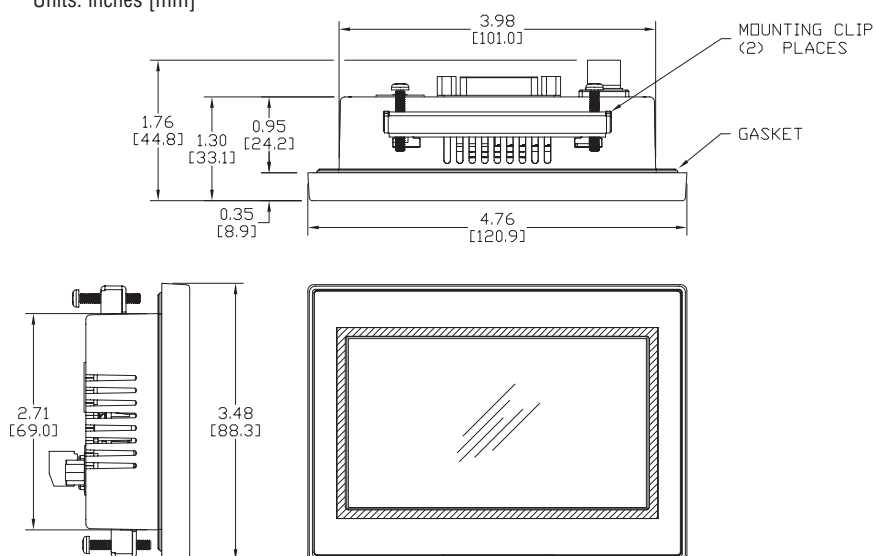
- Touch screen display
- Free downloadable programming software
- 482 x 272 pixel display (WQVGA) with up to 40 lines by 80 characters of text and graphics
- 32K colors
- Optional clear screen overlay
- 14MB memory
- Built-in USB type Micro-B programming port
- Built-in RJ45 Ethernet Port
- Built-in 15-pin serial communications port
- Built-in RJ12 serial communications port
- Built-in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and red LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase



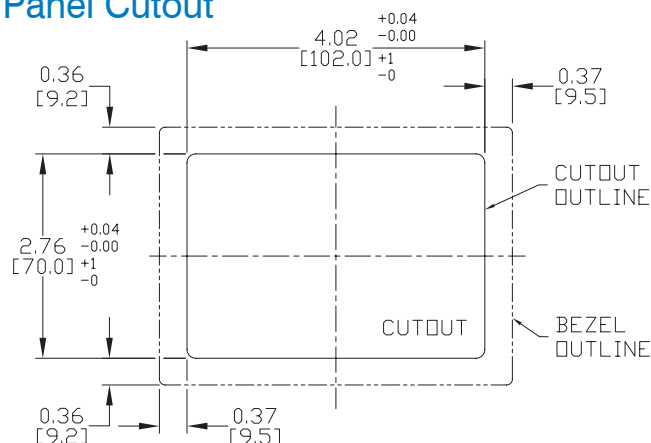
Function	Available
Ethernet	Yes (Built-in)
USB Programming Port	Yes
Serial RJ12 Port	Yes
Serial DB15 Port	Yes

## Dimensions

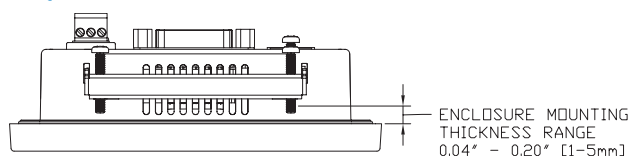
Units: inches [mm]



## Panel Cutout



## Panel Thickness



**NOTE: Model EA3-T4CL and EA1-T4CL use different panel cutouts.**




# C-more Micro EA3-S3ML and EA3-T4CL Panel Specifications

EA3-S3ML and EA3-T4CL Specifications		
Part Number:	EA3-S3ML	EA3-T4CL
Description:	128 x 64 pixel LCD display Five user defined keypad function buttons with five user defined LED indicators	480 x 272 pixel LCD display
Display:		
• Type	3.1" STN Monochrome with LED Backlight	4.3" TFT Graphical type with LED Backlight
• Resolution	128 (W) x 64 (H) pixel	480 (W) x 272 (H) pixel
• Color	2 colors (normal / inverse)	32768 colors
• Display Brightness (Reference)	W: Typ. 150 nit G: Typ. 150 nit R: Typ. 40 nit	370 nits (typ)
• Viewing Area Size	2.78" (W) x 1.53" (H) 70.7 mm x 38.8 mm	3.89" (W) x 2.26" (H) 98.70 mm x 57.50 mm
• Active Area Size	2.62" (W) x 1.31" (H) mm 66.52 mm x 33.24 mm	3.74" (W) x 2.12" (H) mm 95.04 mm x 53.86 mm
• Contrast / Brightness	Adjusted from the panel's built-in configuration setup menu	
• Viewing Angle (Landscape Mode)	3, 6, 9 o'clock axis → 45 degrees 12 o'clock axis → 30 degrees	3, 6, 9, 12 o'clock axis → 80 degrees
Backlight:		
• Type	LED	
• Color	White, Red, Green (12 colors)	White
• User Replaceable	No	
Touch Screen:		
•Type	Analog resistive, single touch*	
• Operation	100 gram force [0.8 N] maximum	82 gram force [0.98 N] maximum
• Life	Minimum of 1,000,000 cycles	
Features:		
• User Memory	3MB	14MB
• Number of Screens	Up to 999 – limited by project memory usage	
• Beep (Internal)	Yes	
• Keypad Function Buttons	Five user defined function key buttons with the ability to customize label with an overlay. Minimum of 500,000 cycles	N/A
• Keypad Function Button LEDs	Each function key button includes a red LED that can be user programmed.	N/A
• Programming Port	USB 2.0 Type Micro-B Built-in Ethernet port	
• Serial Communications	RJ12 serial communications port (RS-232) 15-pin D-sub serial communications port (RS-232, RS-485 / 422).	
• Ethernet Communications	10/100 Base-T (Automatic Negotiation MDI/MDIX)	
Screen Objects		
• Functional Devices	Pushbutton, Switch, Indicator Button, Indicator Light, Graphic Indicator Light, Numeric Display, Numeric Entry, Inc/Dec Value, Bar Graph, Bitmap Button, Static Bitmap, Dynamic Bitmap, Recipe Button, Static Text, Lookup Text, Dynamic Text, Screen Change Pushbutton, Screen Selector, Adjust Contrast, Function, Key Configuration Object, Real Time Graphics Line Graph, Analog Meter.	
• Static Shapes	Lines, Rectangles, Circles and Frames	
• Displayable Fonts	Fixed fonts: 4x6, 6x6, 6x6B, 6x8, 8x16, 8x32, 8x64, 16x16, 16x32, 16x64, 32x16, 32x32, 32x64, and Windows fonts	
*Note: The Touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.		
C-more Micro EA3-S3ML and EA3-T4CL panel specifications continued on next page.		



# C-more Micro EA3-S3ML and EA3-T4CL Panel Specifications

EA3-S3ML and EA1-T4CL Specifications (cont'd)		
Part Number:	EA3-S3ML	EA3-T4CL
Electrical:		
• Input Power	RJ12 port to any AutomationDirect PLC RJ12 port USB Micro-B port to PC 10.2 - 26.4 VDC; Class 2 or SELV (Safety Extra-Low Voltage)or Limited Energy Circuit power supply	USB Micro-B port to PC 10.2 - 26.4 VDC; Class 2 or SELV (Safety Extra-Low Voltage)or Limited Energy Circuit power supply
• Power Consumption	1.05W (RJ12) 2W (USB) 3W (External Power Supply)	2.5W (USB) 4W (External Power Supply)
• Maximum Inrush Current	20A for 240µs (DC power supply)	22A for 240µs (DC power supply)
• Acceptable External Power Drop Duration	Maximum 1ms	
Environmental:		
• Operating Temperature	0 to 50 °C (32 to 122 °F); IEC 60068-2-14 (Test Nb, Thermal Shock)	
• Storage Temperature	-20 to +60 °C (-4 to +140 °F) IEC 60068-2-1 (Test Ab, Cold) IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)	
• Humidity	5-95% RH (non-condensing)	
• Environmental Air	For use in Pollution Degree 2 environment, no corrosive gases permitted	
• Housing Material	ABS Plastic	ABS-GF20
• Gasket Material	Silicone Rubber	
• Overlay Sheet Material	PET	
• Vibration	IIEC60068-2-6 (Test Fc)	
• Shock	IEC60068-2-27 (Test Ea)	
• Altitude	Up to 2000m (6562ft)	
• Noise Immunity	(EN61131-2) 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)	
• Enclosure	(Local Test) RFI, (145MHz, 440Mhz 10W @ 10cm) Impulse 1000V @ 1µs pulse NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only IP-65 indoor use only (not tested by UL) (When mounted correctly)	
• Agency Approvals	CE (EN61131-2), UL61010, CUL Canadian C22.2, UL E157382, RoHS (2011/65/EU) To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page	
Physical		
• Enclosure Mounting Thickness Range	0.04" – 0.2" [1 – 5 mm]	
• Mounting Clip Screw Torque Range	21 – 28 oz-in [0.15 – 0.20 Nm]	
• Weight	6.7 oz. (190g)	7.76 oz. (220g)

# C-more Micro 6-inch, 8-inch & 10-inch EA3 Panels Overview






C-more Micro EA3 Series Panels			
Part Number		Description	Price
EA3-T6CL		<b>C-more</b> Micro EA3 series touch screen HMI, 6in color TFT LCD, 320 x 240, QVGA, supports (2) serial and (1) USB port.	\$299.00
EA3-T8CL		<b>C-more</b> Micro EA3 series touch screen HMI, 8in color TFT LCD, 800 x 600, SVGA, supports (2) serial and (1) USB port.	\$749.00
EA3-T10CL		<b>C-more</b> Micro EA3 series touch screen HMI, 10in color TFT LCD, 800 x 600, SVGA, supports (2) serial and (1) USB port.	\$899.00

Part Number	Panel Software / Firmware Version Required
EA3-T6CL	3.6 or later
EA3-T8CL	3.5 or later
EA3-T10CL	3.5 or later

C-more Micro Programming Software			
Part Number		Description	Price
EA-MG-PGMSW		<b>C-more</b> Micro Windows-based programming software, CD. For use with <b>C-more</b> Micro panels. Requires USB port connection from PC to <b>C-more</b> Micro panel.	\$25.00
USB-CBL-AB3		USB cable, 3ft/0.9m cable length, standard A plug to standard B plug. For use with Productivity, <b>C-more</b> and Do-more programming and most USB devices.	\$7.50
USB-CBL-AB6		USB cable, 6ft/1.8m cable length, standard A plug to standard B plug. For use with Productivity, <b>C-more</b> and Do-more programming and most USB devices.	\$9.50
USB-CBL-AB10		USB cable, 10ft/3m cable length, standard A plug to standard B plug. For use with Productivity, <b>C-more</b> and Do-more programming and most USB devices.	\$18.00
USB-CBL-AB15		USB cable, 15ft/4.5m cable length, standard A plug to standard B plug. For use with Productivity, <b>C-more</b> and Do-more programming and most USB devices.	\$22.50



# C-more Micro 6-inch, 8-inch & 10-inch EA3 Panels Overview

C-more Micro EA3 Series Panel Accessories			
Part Number		Description	Price
<b>EA-ECOM</b>		<b>C-more</b> Micro communication expansion module, (1) RJ45 10/100 Mbps Ethernet port. For use with EA3 series 6in, 8in and 10in HMIs. For programming and PLC communications.	\$50.00
<b>EA-ADPTR-4</b>		DSUB port adapter, 15-pin male to 15-pin female, right angle cable entry. For use with <b>C-more</b> Micro EA1 series 4in and 6in HMIs, <b>C-more</b> Micro EA3 series 3in, 4in, and 6in HMIs, <b>C-more</b> EA9 6in and 7in HMIs.	\$39.00
<b>EA-COMCON-3</b>		DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, right angle cable entry. For use with <b>C-more</b> Micro EA1 series 4in and 6in HMIs, <b>C-more</b> Micro EA3 series 3in, 4in, and 6in HMIs, <b>C-more</b> EA9 6in and 7in HMIs.	\$42.00
<b>EA-COMCON-3A</b>		DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, straight cable entry. For use with <b>C-more</b> Micro EA1 series 3in with EA1-MG-SP1, <b>C-more</b> Micro EA3 series 8in and 10in HMIs, <b>C-more</b> EA9 8in, 10in, 12in and 15in HMIs.	\$19.00
<b>EA-6-COV2</b>		Screen protector, non-glare, 6in. Package of 3. For use with <b>C-more</b> and <b>C-more</b> Micro 6in panels.	\$37.00
<b>EA-8-COV2</b>		Screen protector, non-glare, 8in. Package of 3. For use with <b>C-more</b> and <b>C-more</b> Micro 8in panels.	\$40.00
<b>EA-10-COV2</b>		Screen protector, non-glare, 10in. Package of 3. For use with <b>C-more</b> and <b>C-more</b> Micro 10in panels.	\$45.50

# C-more Micro 6-inch TFT EA3 Touch Panel

Model EA3-T6CL **C-more** 6-inch Micro touch panel has a 5.7-inch TFT LCD 320 x 240 pixel display and a palette of 32K colors for customizing objects, screen backgrounds and displaying bitmap graphics. It features five user-defined function keys, each key with a user-defined red LED indicator. The **C-more** 6-inch Micro TFT panels are powered from a Class 2, 12-24 VDC power supply\*. The panel is NEMA 4/4X indoor when installed correctly.

Part No. **EA3-T6CL**

Shown in Landscape (Horizontal) mode



\$299.00

**\*NOTE: Recommended DC power supply to power the C-more Micro Panel, AutomationDirect Part No. PSC-24-010.**

## Features

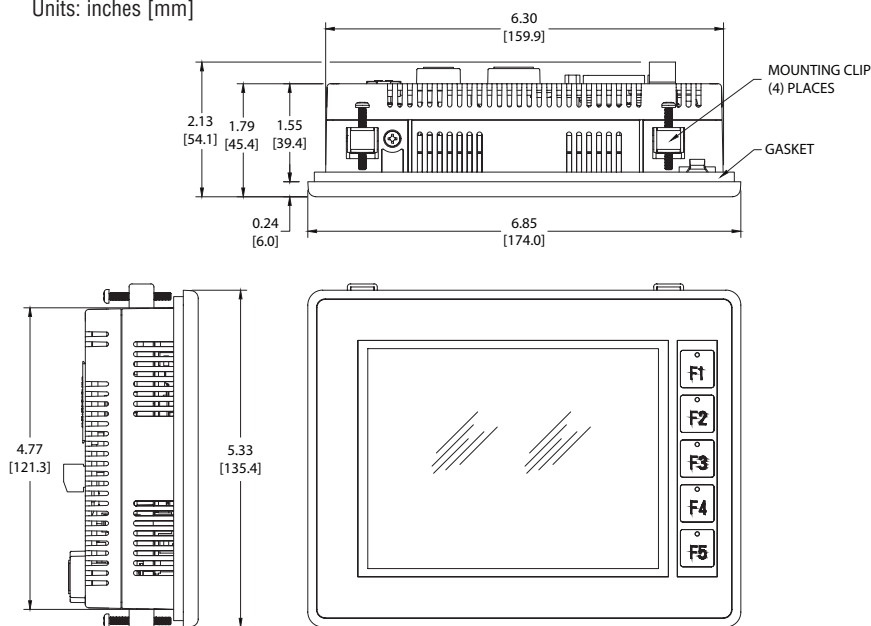
- Touch screen display
- Free downloadable programming software
- 320 x 240 pixel display with up to 40 lines by 80 characters of text and graphics in landscape mode
- Up to 40 characters of dynamic text with embedded variables and phrases mixed with graphics
- Five programmable function keys can change with every screen. Can increment/decrement values, trigger recipes, view index of screens.
- 32K colors
- Optional replaceable clear screen overlay
- 6MB memory
- Supports Ethernet expansion module (EA-ECOM)
- Built-in USB type B programming port
- Built-in 15-pin serial communications port
- Built-in RJ12 serial communications port
- Built-in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and red LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase

Function	Available
Ethernet	Optional (EA-ECOM)
USB Programming Port	Yes
Serial RJ12 Port	Yes
Serial DB15 Port	Yes

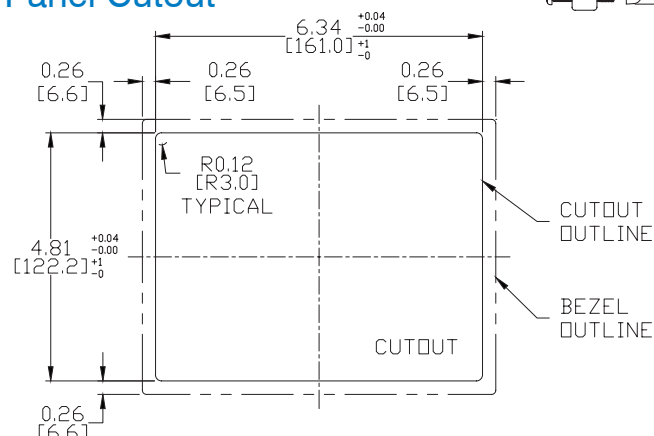
**\*NOTE: The EA3-T6CL can be powered through the USB port when connected to a PC for programming, the screen brightness is diminished because the panel is running in Low-Power Mode. For full brightness, connect an external Class 2, 12-24 VDC power source to the 6" panel's power connection. An external Class 2, 12-24 VDC power source must be used when the panel is installed in its application.**

## Dimensions

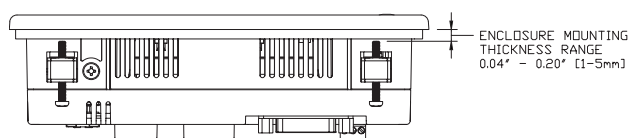
Units: inches [mm]



## Panel Cutout



## Panel Thickness



**NOTE: The C-more 6-inch Micro cutout dimensions are not equivalent to previous AutomationDirect text panels. The C-more 6-inch Micro panels will not fit in cutouts for DV-1000, EZText, Optimate panels or C-more 6-inch panels.**

# C-more Micro 8-inch TFT EA3 Touch Panel

Model EA3-T8CL **C-more** 8" Micro touch panel has a 8.4-inch TFT LCD 800 x 600 pixel display and a palette of 32K colors for customizing objects, screen backgrounds and displaying bitmap graphics. It features seven user-defined function keys, each key with a user-defined red LED indicator. **C-more** 8" Micro TFT panels are powered from a Class 2, 12-24 VDC power supply\*. The panel is NEMA 4/4X indoor when installed correctly.

Part No. **EA3-T8CL**



**\*NOTE: Recommended DC power supply to power the C-more Micro Panel, AutomationDirect Part No. PSC-24-010.**

## Features

- Touch screen display
- Free downloadable programming software
- 800 x 600 pixel display with up to 100 lines by 200 characters of text and graphics in landscape mode
- Up to 40 characters of dynamic text with embedded variables and phrases mixed with graphics
- Seven programmable function keys can change with every screen. Can increment / decrement values, trigger recipes, view index of screens.
- 32K colors
- Optional replaceable clear screen overlay
- 30MB memory
- Supports Ethernet expansion module (EA-ECOM)
- Built-in USB type B programming port
- Built-in 15-pin serial communications port
- Built-in RJ12 serial communications port
- Built-in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and red LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase

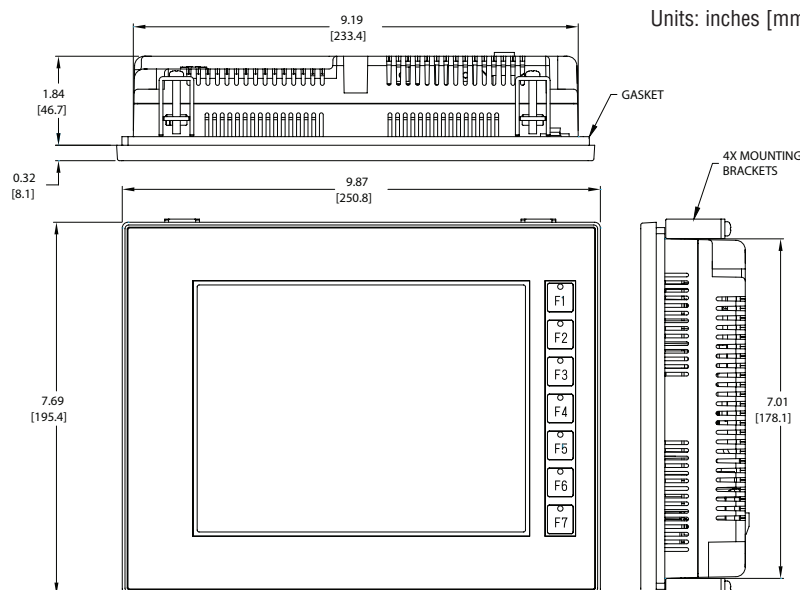
Function	Available
Ethernet	Optional (EA-ECOM)
USB Programming Port	Yes
Serial RJ12 Port	Yes
Serial DB15 Port	Yes



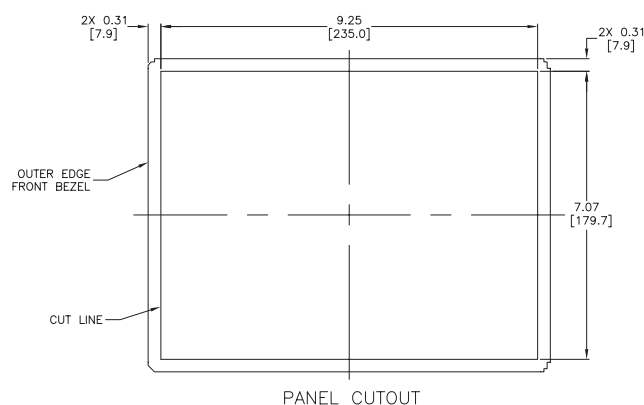
**\$749.00**

## Dimensions

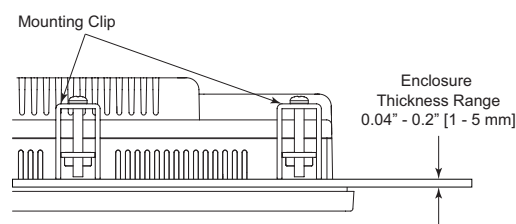
Units: inches [mm]



## Panel Cutout



## Panel Thickness



# C-more Micro 10-inch TFT EA3 Touch Panel

Model EA3-T10CL **C-more** 10-inch Micro touch panel has a 10.4-inch TFT LCD 800 x 600 pixel display and a palette of 32K colors for customizing objects, screen backgrounds and displaying bitmap graphics. It features seven user-defined function keys, each key with a user-defined red LED indicator. **C-more** 10" Micro TFT panels are powered from a Class 2, 12-24 VDC power supply\*. The panel is NEMA 4/4X indoor when installed correctly.

Part No. EA3-T10CL



**\*NOTE: Recommended DC power supply to power the C-more Micro Panel, AutomationDirect Part No. PSC-24-015.**

## Features

- Touch screen display
- Free downloadable programming software
- 800 x 600 pixel display with up to 100 lines by 200 characters of text and graphics in landscape mode
- Up to 40 characters of dynamic text with embedded variables and phrases mixed with graphics
- Seven programmable function keys can change with every screen. Can increment / decrement values, trigger recipes, view index of screens.
- 32K colors
- Optional replaceable clear screen overlay
- 30MB memory
- Supports Ethernet expansion module (EA-ECOM)
- Built-in USB type B programming port
- Built-in 15-pin serial communications port
- Built-in RJ12 serial communications port
- Built-in Alarm Control setup that activates beep, backlight flash, customized alarm banner, and red LED blinking
- 0 to 50 °C (32 to 122 °F) operating temperature range (IEC 60068-2-14)
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase

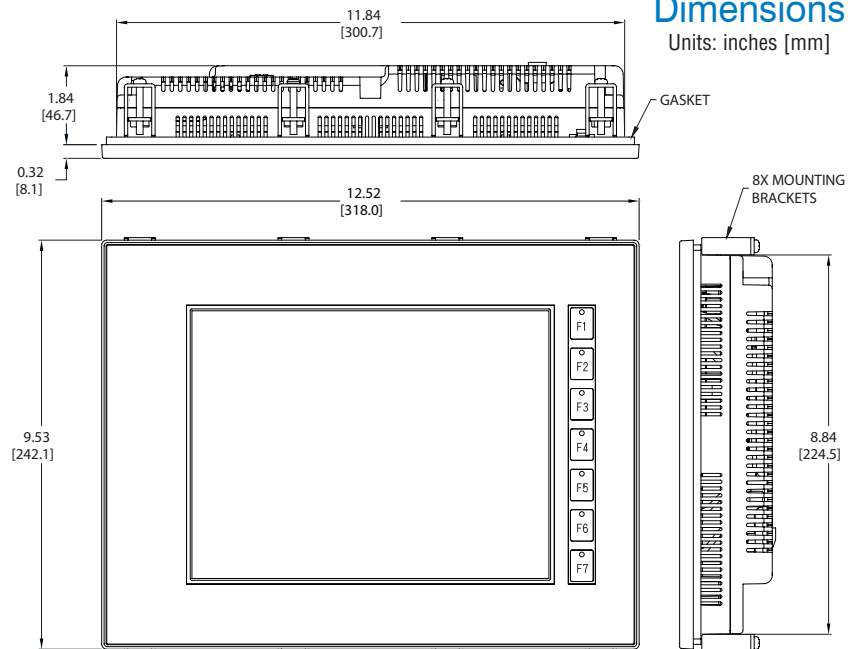
Function	Available
Ethernet	Optional (EA-ECOM)
USB Programming Port	Yes
Serial RJ12 Port	Yes
Serial DB15 Port	Yes



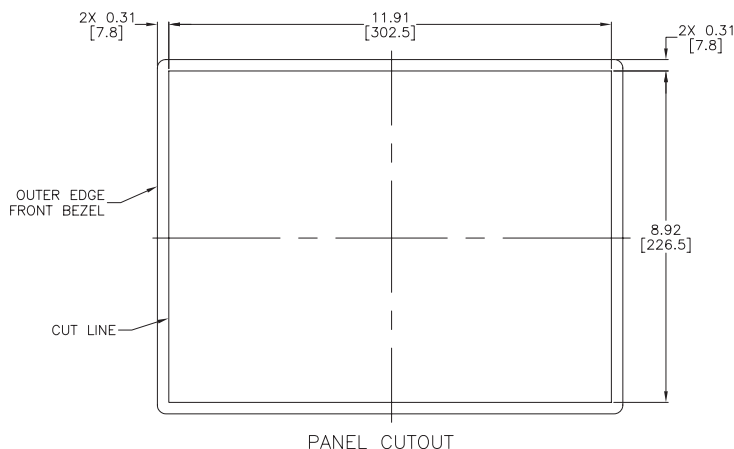
\$899.00

## Dimensions

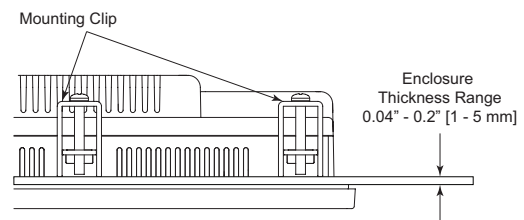
Units: inches [mm]



## Panel Cutout



## Panel Thickness



# C-more Micro 6-inch, 8-inch and 10-inch EA3 Panel Specifications

EA3-T6CL, EA3-T8CL and EA3-T10CL Specifications			
Part Number:	EA3-T6CL	EA3-T8CL	EA3-T10CL
Description:	320 x 240 pixel LCD display (Landscape mode), Five user defined keypad function buttons with five user defined LED indicators	800 x 600 pixel LCD display (Landscape mode), Seven user defined keypad function buttons with seven user defined LED indicators	
Display:			
• Type	5.7" TFT Graphical type with LED Backlight	8.4" TFT Graphical type with LED Backlight	10.4" TFT Graphical type with LED Backlight
• Resolution	320 (W) x 240 (H) pixel (Landscape Mode) 240 (W) x 320 (H) pixel (Portrait Mode)	800 (W) x 600 (H) pixel (Landscape Mode) 600 (W) x 800 (H) pixel (Portrait Mode)	
• Color	32768 colors		
• Display Brightness (Reference)	270 nits (typ)	295 nits (typ)	270 nits (typ)
• Viewing Area Size	4.57" (W) x 3.44" (H) [116.2 mm x 87.4 mm]	6.86" (W) x 5.17" (H) [174.2 mm x 131.2 mm]	8.46" (W) x 6.41" (H) [214.8 mm x 162.7 mm]
• Active Area Size	4.54" (W) x 3.40" (H) [115.2 mm x 86.4 mm]	6.71" (W) x 5.03" (H) [170.4 mm x 127.8 mm]	8.31" (W) x 6.24" (H) [211.2 mm x 158.4 mm]
• Contrast / Brightness	Adjusted from the panel's built-in configuration setup menu		
• Viewing Angle (Landscape Mode)	3, 9 o'clock axis → 80 degrees 6 o'clock axis → 65 degrees 12 o'clock axis → 80 degrees	3, 9 o'clock axis → 80 degrees 6 o'clock axis → 60 degrees 12 o'clock axis → 80 degrees	3, 9 o'clock axis → 80 degrees 6 o'clock axis → 80 degrees 12 o'clock axis → 60 degrees
Backlight:			
• Type	LED		
• Color	White		
• User Replaceable	No		
Touch Screen:			
•Type	Analog resistive, single touch*		
• Operation	82 gram force [0.8 N] maximum		
• Life	Minimum of 1,000,000 cycles		
Features:			
• User Memory	6MB	30MB	
• Number of Screens	Up to 999 – limited by project memory usage		
• Beep (Internal)	Yes		
• Keypad Function Buttons	Five user defined function key buttons with the ability to customize label with an overlay. Minimum of 500,000 cycles	Seven user defined function key buttons with the ability to customize label with an overlay. Minimum of 500,000 cycles	
• Keypad Function Button LEDs	Each function key button includes a red LED that can be user programmed.		
• Programming Port	USB 2.0 Type B		
• Serial Communications	RJ12 serial communications port (RS-232) 15-pin D-sub serial communications port (RS-232, RS-485 / 422).		
• Ethernet Communications	10/100 Base-T (Automatic Negotiation) with EA-ECOM Module		
Screen Objects			
• Functional Devices	Pushbutton, Switch, Indicator Button, Indicator Light, Graphic Indicator Light, Numeric Display, Numeric Entry, Inc/Dec Value, Bar Graph, Bitmap Button, Static Bitmap, Dynamic Bitmap, Recipe Button, Static Text, Lookup Text, Dynamic Text, Screen Change Pushbutton, Screen Selector, Adjust Contrast, Function, Key Configuration Object, Real Time Graphics Line Graph, Analog Meter.		
• Static Shapes	Lines, Rectangles, Circles and Frames		
• Displayable Fonts	Fixed fonts: 4x6, 6x6, 6x6B, 6x8, 8x16, 8x32, 8x64, 16x16, 16x32, 16x64, 32x16, 32x32, 32x64, and Windows fonts		
*Note: The Touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.			
C-more Micro EA3-T6CL, EA3-T8CL and EA3-T10CL panel specifications continued on next page.			



# C-more Micro 6-inch, 8-inch and 10-inch EA3 Panel Specifications

EA3-T6CL, EA3-T8CL and EA3-T10CL Specifications (cont'd)			
Part Number:	EA3-T6CL	EA3-T8CL	EA3-T10CL
Electrical:			
• Input Power	10.2 - 26.4 VDC; Class 2 or SELV (Safety Extra-Low Voltage) or Limited Energy Circuit power supply		
• Power Consumption	7.5 W	8W	10W
• Maximum Inrush Current	13A for 800µs	10A for 1ms	
• Acceptable External Power Drop Duration	Maximum 1ms		
Environmental:			
• Operating Temperature	0 to 50 °C (32 to 122 °F); Maximum surrounding air temperature rating: 50 °C (122 °F) IEC 60068-2-14 (Test Nb, Thermal Shock)		
• Storage Temperature	-20 to +60 °C (-4 to +140 °F) IEC 60068-2-1 (Test Ab, Cold) IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)		
• Humidity	5–95% RH (non-condensing)		
• Environmental Air	For use in Pollution Degree 2 environment, no corrosive gases permitted		
• Housing Material	ABS Plastic		
• Gasket Material	Silicone Rubber		
• Overlay Sheet Material	PET		
• Vibration	IIEC60068-2-6 (Test Fc)		
• Shock	IEC60068-2-27 (Test Ea)		
• Altitude	Up to 2000m (6562ft)		
• Noise Immunity	(EN61131-2) 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)		
• Enclosure	(Local Test) RFI, (145MHz, 440Mhz 10W @ 10cm) Impulse 1000V @ 1µs pulse NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only IP-65 indoor use only (not tested by UL) (When mounted correctly)		
• Agency Approvals	CE (EN61131-2), UL508, CUL Canadian C22.2 No. 142-M95, UL E157382, RoHS (2011/65/EU) To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page		
Physical:			
• Enclosure Mounting Thickness Range	0.04" – 0.2" [1 – 5 mm]		
• Mounting Clip Screw Torque Range	21 – 28 oz-in [0.15 – 0.20 Nm]	63 – 77 oz-in [0.45 – 0.55 Nm]	
• Weight	21.1 oz. (600g)	39.9 oz. (1130g)	57.1 oz. (1620g)

# C-more Micro EA3 Series PLC Drivers

PLC Drivers		
Serial - port1 or port2	Serial - port2 only	Ethernet*
AutomationDirect Productivity Series	Allen-Bradley DF1 Half Duplex	AutomationDirect Productivity Series Ethernet
AutomationDirect Do-more / BRX**	Allen-Bradley DF1 Full Duplex	AutomationDirect Do-more / BRX Ethernet
AutomationDirect CLICK	Allen-Bradley PLC5 DF1	AutomationDirect CLICK Ethernet
AutomationDirect K-sequence	Allen-Bradley DH485	AutomationDirect ECOM Ethernet
AutomationDirect DirectNET	GE SNPX (90/30, 90/70, Micro 90, VersaMax Micro)	Modbus TCP/IP
AutomationDirect Modbus	Mitsubishi FX	Allen-Bradley EtherNet/IP(Client) SLC5/05
Modicon Modbus RTU	Mitsubishi Q & QnA	Allen-Bradley EtherNet/IP(Client) ENI Adapter
Entivity Modbus RTU	Omron Host Link (C200 Adapter, C500)	Allen-Bradley EtherNet/IP(Client) MicroLogix 1100/1400
	Omron FINS Serial (CJ1, CS1)	
	Siemens PPI (S7-200 CPU)	
	AutomationDirect SOLO Temperature Controller	
	AutomationDirect GS Drives	

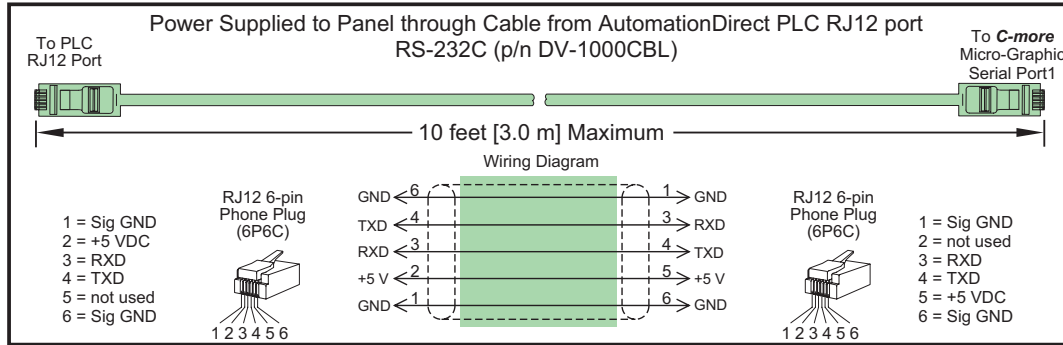
\* Ethernet port is built in to EA3-S3ML and EA3-T4CL. EA3-T6CL, EA3-T8CL and EA3-T10CL require the optional EA-ECOM module for Ethernet.

\*\* BX-P-SER2-RJ12 is required

# C-more Micro EA3 Series Power Connection Wiring

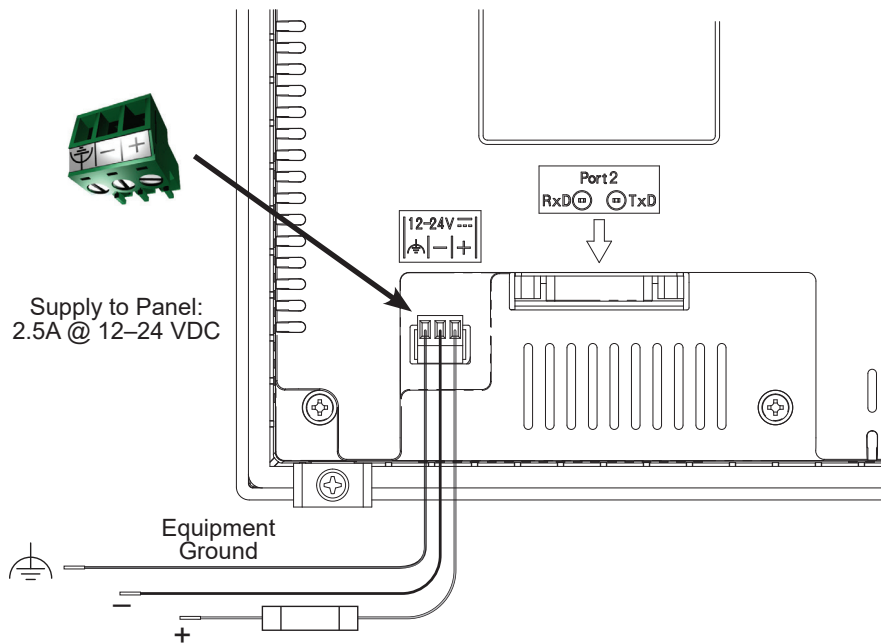
## EA3-S3ML-RN and EA3-S3ML-R

- EA3-S3ML-RN and EA3-S3ML-R **C-more** Micro panels are powered during programming from the PC through the USB to RS-232 Programming Cable Assembly, EA-MG-PGM-CBL.
- During operation, EA3-S3ML-RN and EA3-S3ML-R **C-more** Micro panels can be powered from most AutomationDirect PLC's RJ12 serial communications ports by using the DV-1000CBL communications cable.



## EA3-S3ML, EA3-T4CL, EA3-T6CL, EA3-T8CL and EA3-T10CL

EA3-S3ML, EA3-T4CL, EA3-T6CL, EA3-T8CL and EA3-T10CL **C-more** Micro EA3 series panels are powered by a Class 2, 2.5 Amp @ 12-24 VDC power source in normal operation.



# C-more Micro EA3 Series PLC Connections

## Cabling requirements

When using the built in RJ12 serial port (Port1) on EA3 models to connect with the CLICK, ProductivitySeries, DL05, DL06, DL105, DL205, D3-350 and DL405 CPUs, your cabling choices are fairly simple.

- D0-CBL — connects to Productivity Series, Do-more / BRX\*, CLICK, DL05, DL06, DL105, DL205, D3-350 and D4-450 phone jack.

**\*BX-P-SER2-RJ12 is required**

EA3-T6CL, EA3-T8CL and EA3-T10CL cannot be powered from a PLC.

The **C-more** EA3 series Micro panels (except -RN and -R models) can communicate through a built-in 15-pin serial port (Port2) via RS-232, RS-422 and RS-485 using these cables.

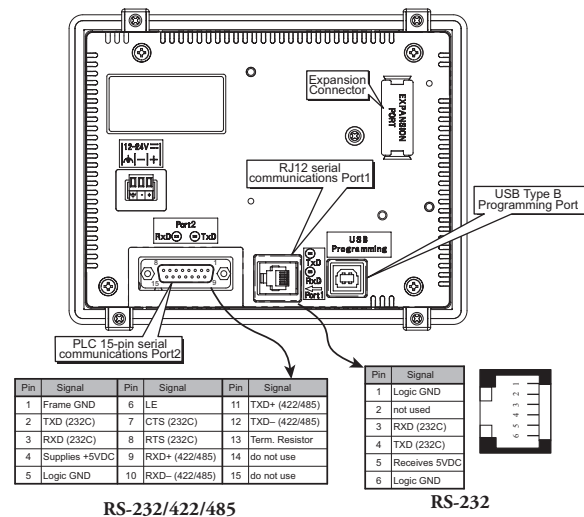
- EA-2CBL — connects to Productivity Series, Do-more / BRX\*, CLICK, DL05, DL105, DL205, D3-350 and D4-450 phone jack.
- EA-2CBL-1 — connects to D2-250, D250-1, D2-260, DL06 VGA connector.

**\*BX-P-SER2-RJ12 is required**

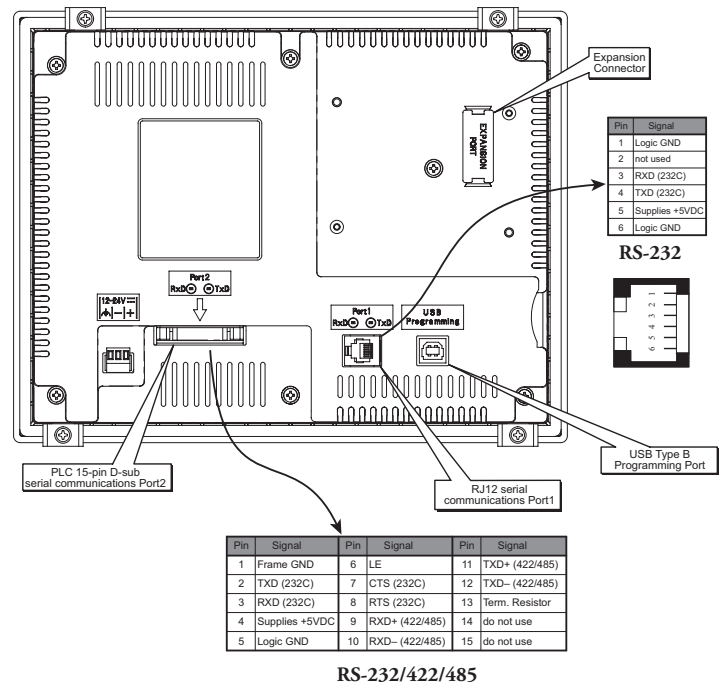
The USB programming port on these TFT models is for programming only.

## Communication Ports

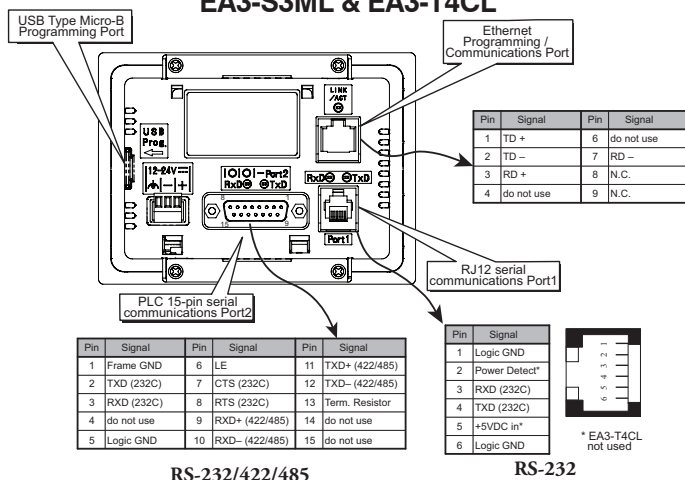
### EA3-T6CL



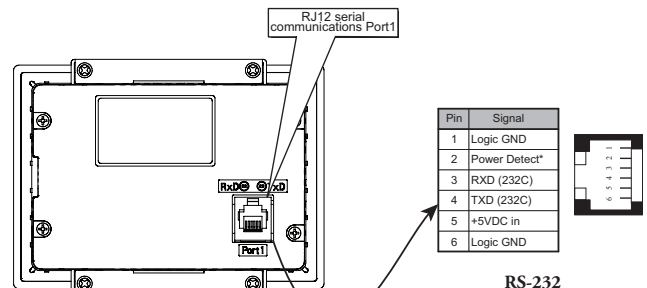
### EA3-T8CL & EA3-T10CL



### EA3-S3ML & EA3-T4CL



### EA3-S3ML-RN & EA3-S3ML-R



# C-more Micro EA3 Series Accessories

## EA3 Series Communication Expansion Module

The EA-ECOM **C-more** Micro communication module is compatible with EA3 series **C-more** Micro 6-inch, 8-inch and 10-inch panels. It adds an Ethernet (RJ45) port for programming and PLC communications at 10/100 Mbps. Software and firmware version 4.0 or later is required

**Part No.**  
**EA-ECOM**



**\$50.00**

### Ethernet Communication Interface Specifications

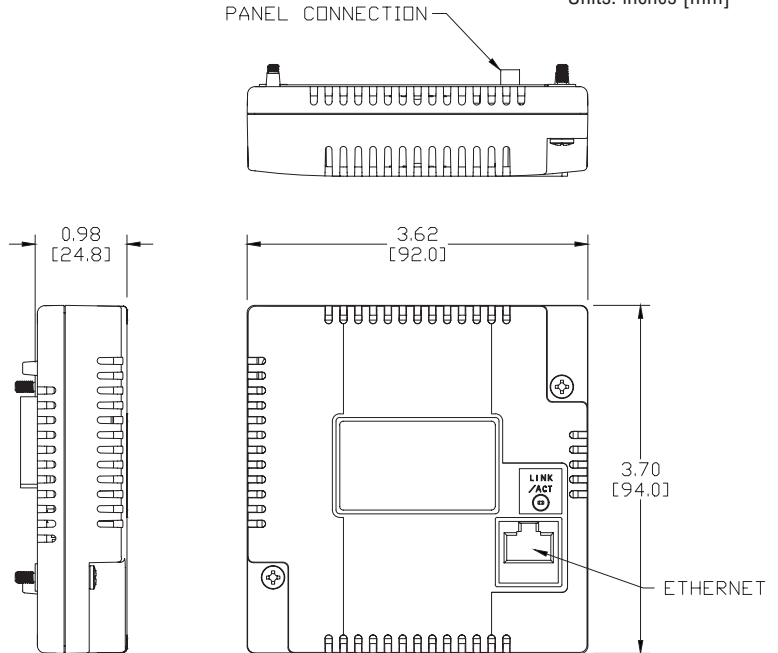
<b>Standard Specification</b>	Conforms to IEEE802.3
<b>Communication Speed</b>	10/100 Base-T (Automatic Negotiation)
<b>Cable Specification</b>	Category 5
<b>Auto MDI / MDI-X</b>	Yes
<b>Connector Type</b>	RJ45

### PLC Drivers

AutomationDirect Productivity Series Ethernet
AutomationDirect Do-more / BRX Ethernet
AutomationDirect CLICK Ethernet
AutomationDirect ECOM Ethernet
Modbus TCP/IP

### Dimensions

Units: inches [mm]



Link Status LED (Green)	
On	Ethernet Linked
Off	No Ethernet Comm.
Blinking Green	Comm. Activity



### EA-ECOM Specifications

<b>Part Number</b>	EA-ECOM
<b>Operating Temperature</b>	0 to 50 °C (32 to 122 °F) Maximum surrounding air temperature rating: 50 °C
<b>Storage Temperature</b>	-20 to +60 °C (-4 to +140 °F)
<b>Humidity</b>	5-95% RH (non-condensing)
<b>Environmental Air</b>	For use in pollution degree 2 environment
<b>Vibration</b>	IEC60068-2-6 (Test Fc), 5-9 Hz: 3.5 mm amplitude, 9-150 Hz: 1.0G, sweeping, at a rate of 1 octave/min. (±10%), 10 sweep cycles per axis on each of 3 mutually perpendicular axes
<b>Shock</b>	IEC60068-2-27 (Test Ea), 15 G peak, 11ms duration, three shocks in each direction per axis, on 3 mutually perpendicular axes (total of 18 shocks)
<b>Noise Immunity</b>	NEMA ICS3-304 RFI, (145 MHz, 440 MHz 10 W @ 10 cm) Impulse 1000 V @ 1 µs pulse
<b>Emission</b>	EN55011 Class A (Radiated RF emission)
<b>Enclosure (panel door installation)</b>	NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only IP-65 indoor use only (When mounted correctly)
<b>Agency Approvals</b>	CE (EN61131-2), UL508, CUL Canadian C22.2 To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page
<b>Mounting Torque</b>	50 oz-in [0.35 N-m]
<b>Weight</b>	0.23 lb [105g]



# C-more Micro EA3 Panel Accessories

## D-SUB 15-pin 90-degree Communication Port Adapter

The EA-ADPTR-4 adapter plugs into the 15-pin serial port on the rear of **C-more** Micro EA3 Series 3-inch\*, 4-inch and 6-inch panels to allow a controller communication cable to be plugged in at a 90 degree angle to reduce panel depth requirements. 15-pin straight through pin-out. UL Recognized.

\* EA3-S3ML-RN and EA3-S3ML-R are not equipped with a 15-pin serial port.

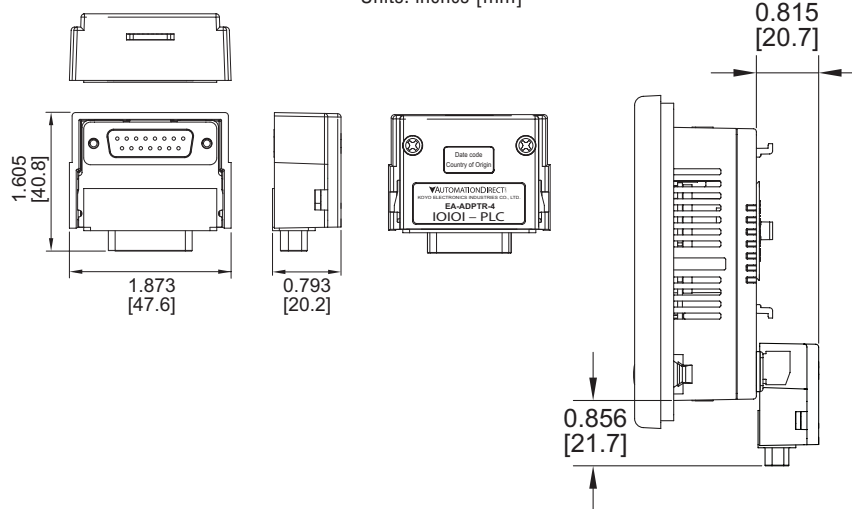
Part No.  
**EA-ADPTR-4**



**\$39.00**

Dimensions 

Units: inches [mm]



## D-SUB 15-pin to Terminal Block Adapter

The EA-COMCON-3 adapter plugs into the 15-pin serial port on the rear of C-more Micro EA3 Series 3-inch\*, 4-inch and 6-inch panels to allow wire terminal connections for an RS-422/RS-485/DH485 PLC communication cable. UL Recognized.

\* EA3-S3ML-RN and EA3-S3ML-R are not equipped with a 15-pin serial port.

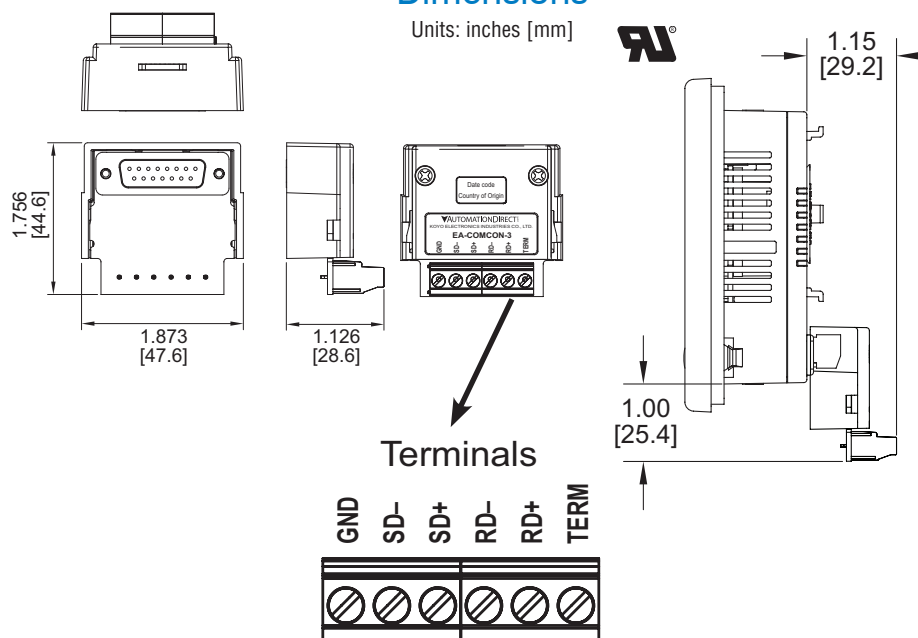
Part No.  
**EA-COMCON-3**



**\$42.00**

Dimensions 

Units: inches [mm]



# C-more Micro EA3 Panel Accessories

## D-SUB 15-pin to Terminal Block Adapter

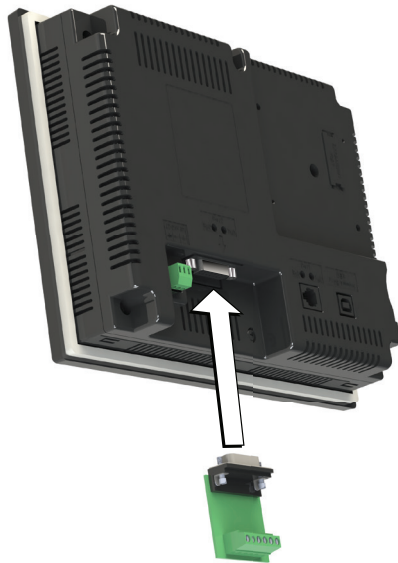
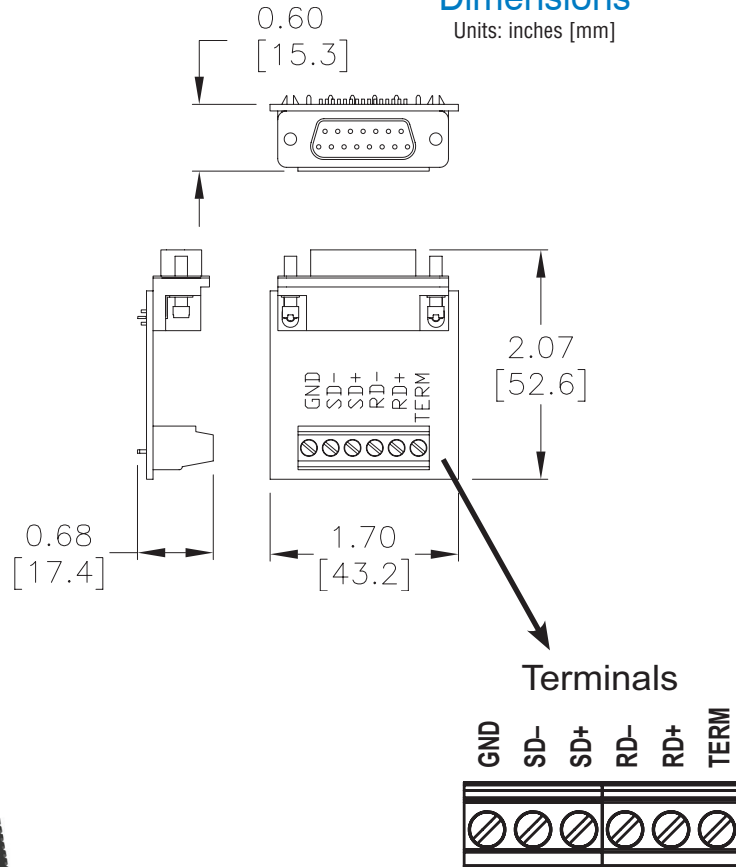
The EA-COMCON-3A adapter plugs into the 15-pin serial port on the rear of C-more Micro EA3 Series 8-inch and 10-inch panels to allow wire terminal connections for an RS-422/RS-485/DH485 PLC communication cable.

**Part No.**  
**EA-COMCON-3A**



**\$19.00**

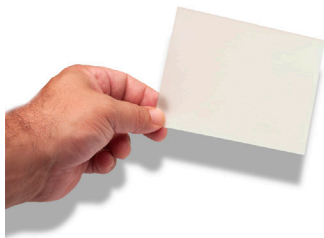
**Dimensions**  
Units: inches [mm]



# C-more Micro EA3 Panel Accessories

## Clear Screen Overlay

Optional clear screen overlay used to protect **C-more** Micro displays from minor scratches and wear. EA-MG-COV-CL contains 5 clear screen overlays. All other packages contain 3 clear screen overlays.



**Part No. EA-MG-COV-CL**  
**\$35.50**

**Part No. EA-4-COV3**  
**\$33.50**

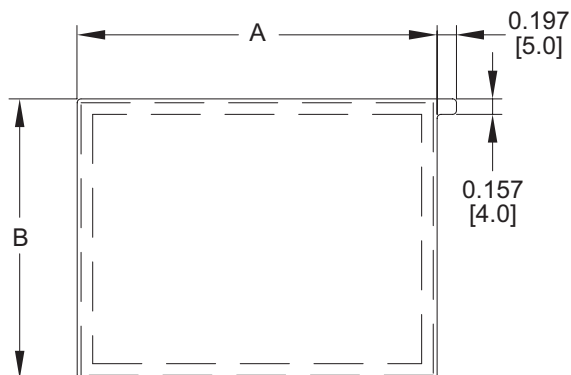
**Part No. EA-6-COV2**  
**\$37.00**

**Part No. EA-8-COV2**  
**\$40.00**

**Part No. EA-10-COV2**  
**\$45.50**

## Dimensions

Units: inches [mm]



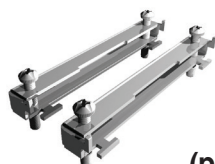
Part Number	Dimensions - inch [mm]	
	A	B
EA-MG-COV-CL	3.13 [79.4]	1.75 [44.4]
EA-4-COV3	4.15 [105.5]	2.52 [64.0]
EA-6-COV2	4.91 [124.8]	3.80 [96.4]
EA-8-COV2	7.32 [185.8]	5.44 [138.2]
EA-10-COV2	8.91 [226.2]	6.61 [168.0]

# C-more Micro 3-inch and 4-inch EA3 Panel Replacement Parts

Replacement parts at a glance:

Part Number	Description	Price
<b>EA-MG-S3ML-BRK</b>	Panel mounting brackets, replacement. Package of 2. For use with <b>C-more</b> Micro 3in and EA3-T4CL HMIs.	\$17.50
<b>EA-MG-DC-CON</b>	DC 3-terminal power connector, replacement. Package of 5. For use with all <b>C-more</b> Micro 4in, 6in, 8in and 10in panels, and power adapters EA-MG-P1 and EA-MG-SP1.	\$14.00
<b>EA-MG-S3ML-GSK</b>	Panel mounting gasket, replacement. For use with 3in <b>C-more</b> Micro panels.	\$12.00
<b>EA-4-GSK</b>	Panel Mounting Gasket: replacement, for C-more Micro EA3-T4CL 4in HMIs	\$8.50
<b>EA-MG-S3ML-FKL</b>	Function key label insert, replacement. Package of 10. For use with <b>C-more</b> Micro 3in panels. (5) blank labels (5) landscape F1-F5 label included.	\$9.75

**Panel Mounting Clips**  
Part No. EA-MG-S3ML-BRK



(pk of 2)

**3" Panel Gasket**  
Part No. EA-MG-S3ML-GSK



**EA3-T4CL Panel Gasket**  
Part No. EA-4-GSK

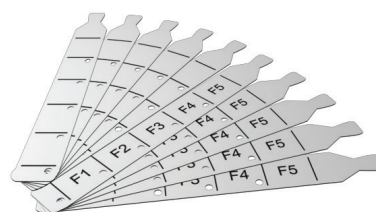


**DC Power Connector**  
Part No. EA-MG-DC-CON



(pk of 5)

**3" Panel Function Keys Label Inserts**  
Part No. EA-MG-S3ML-FKL



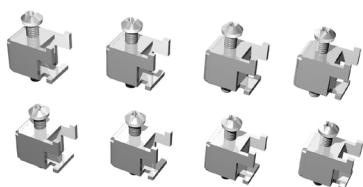
(pk of 10 - 5 blank, 5 F1-F5 )

# C-more Micro 6-inch EA3 Panel Replacement Parts

Replacement parts at a glance:

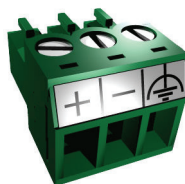
Part Number	Description	Price
<b>EA-MG-BZ2-BRK</b>	Panel mounting brackets, replacement. Package of 8. For use with C-more Micro 4in and 6in panels, all 6in bezels, and 3in bezel EA-MG-BZ2.	\$18.50
<b>EA-MG-DC-CON</b>	DC 3-terminal power connector, replacement. Package of 5. For use with all C-more Micro 4in, 6in, 8in and 10in panels, and power adapters EA-MG-P1 and EA-MG-SP1.	\$14.00
<b>EA-MG6-S6ML-GSK</b>	Replacement mounting gasket for <b>C-more</b> 6" Micro panels	\$11.00
<b>EA-MG6-S6ML-FKL</b>	Replacement function key label insert for <b>C-more</b> 6" Micro panels (pk of 5; 3 blank, 1 F1-F5 for landscape, 1 F1-F5 for portrait)	\$18.00

**Panel Mounting Clips**  
Part No. EA-MG-BZ2-BRK



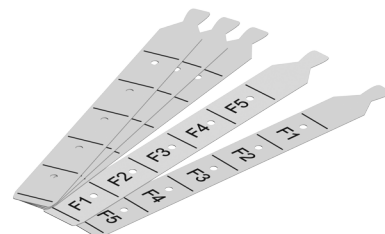
(pk of 8)

**DC Power Connector**  
Part No. EA-MG-DC-CON



(pk of 5)

**Function Keys Label Inserts**  
Part No. EA-MG6-S6ML-FKL



(pk of 5; 3 blank, 1 F1-F5 for landscape, 1 F1-F5 for portrait)

**Panel Gasket**  
Part No. EA-MG6-S6ML-GSK



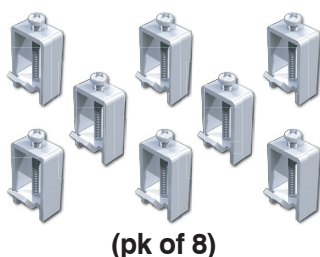


# C-more Micro 8-inch and 10-inch EA3 Panel Replacement Parts

Replacement parts at a glance:

Part Number	Description	Price
<b>EA3-BRK</b>	Replacement mounting clips for <b>C-more</b> Micro EA3 series (pack of 8)	\$27.00
<b>EA-MG-DC-CON</b>	Replacement DC power connector (pack of 5)	\$14.00
<b>EA3-8-GSK</b>	Replacement mounting gasket for <b>C-more</b> 8" Micro panels	\$17.00
<b>EA3-10-GSK</b>	Replacement mounting gasket for <b>C-more</b> 10" Micro panels	\$19.00
<b>EA3-MG-8-FKL</b>	Replacement function key label insert for <b>C-more</b> 8" Micro panels (pk of 5; 3 blank, 1 F1-F7 for landscape, 1 F1-F7 for portrait)	\$15.00
<b>EA3-MG-10-FKL</b>	Replacement function key label insert for <b>C-more</b> 10" Micro panels (pk of 5; 3 blank, 1 F1-F7 for landscape, 1 F1-F7 for portrait)	\$19.00

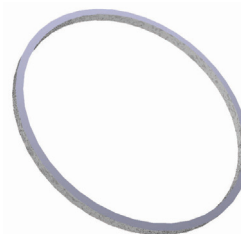
**Panel Mounting Clips**  
Part No. EA3-BRK



**DC Power Connector**  
Part No. EA-MG-DC-CON



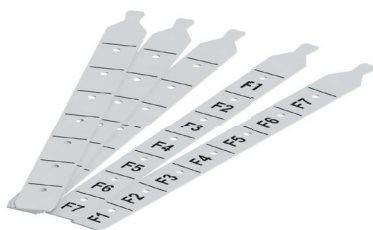
**Panel Gasket**  
Part No. EA3-8-GSK



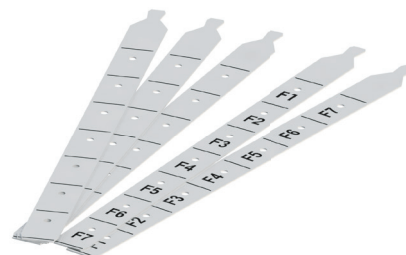
**Panel Gasket**  
Part No. EA3-10-GSK



**Function Keys Label Inserts**  
Part No. EA3-MG-8-FKL



**Function Keys Label Inserts**  
Part No. EA3-MG-8-FKL



# C-more Micro Communication Cables and Cable Kits

Cable Description	Cable Part Number	Price
<b>Cables used with RJ-12 RS-232 serial Port1</b>		
AutomationDirect Productivity Series, Do-more / BRX*, CLICK, DirectLOGIC PLC RJ-12 port, DL05, DL06, DL105, DL205, D3-350, D4-450 & H2-WinPLC (RS-232C) 3.66m (12ft) cable length	<b>D0-CBL</b>	\$19.00
DirectLOGIC (VGA Style) 15-pin port, DL06, D2-250 (250-1), D2-260 (RS-232C) Use with D0-CBL cable.	<b>FA-15HD</b>	\$8.00
DirectLOGIC PLC 15-pin D-sub port, DL405 (RS-232C) Use with D0-CBL cable.	<b>FA-CABKIT</b>	\$40.00
DirectLOGIC PLC RJ-11 port, D3-340 (RS-232C) 2m (6.56 ft) cable length	<b>OP-3CBL-1</b>	\$6.00
<b>Cables used with 15-pin RS-232/422/485 serial Port2</b>		
AutomationDirect Productivity Series, Do-more / BRX*, CLICK, DirectLOGIC PLC RJ-12 port, DL05, DL06, DL105, DL205, D3-350, D4-450 & H2-WinPLC (RS-232C) 3m (9.8 ft) cable length	<b>EA-2CBL</b>	\$20.00
DirectLOGIC (VGA Style) 15-pin port, DL06, D2-250 (250-1), D2-260 (RS-232C) 3m (9.8 ft) cable length	<b>EA-2CBL-1</b>	\$20.00
DirectLOGIC PLC RJ-11 port, D3-340 (RS-232C). 3m (9.8 ft) cable length	<b>EA-3CBL</b>	\$20.00
DirectLOGIC DL405 PLC 15-pin D-sub port, DL405 (RS-232C). 3m (9.8 ft) cable length	<b>EA-4CBL-1</b>	\$20.00
DirectLOGIC PLC 25-pin D-sub port, DL405, D3-350, DL305 DCU and all DCM's (RS-232C). 3m (9.8 ft) cable length	<b>EA-4CBL-2</b>	\$20.00
Allen-Bradley MicroLogix 1000, 1100, 1200, 1400 & 1500 (RS-232C) 3m (9.8 ft) cable length	<b>EA-MLOGIX-CBL</b>	\$30.00
Allen-Bradley SLC 5-03/04/05, ControlLogix, CompactLogix, FlexLogix DF1 port (RS-232C) 3m (9.8 ft) cable length	<b>EA-SLC-232-CBL</b>	\$20.00
Allen-Bradley PLC-5 DF1 port (RS-232C) 3m (9.8 ft) cable length	<b>EA-PLC5-232-CBL</b>	\$20.00
Allen-Bradley MicroLogix, SLC-5-01/02/03, PLC5 DH485 port (RS-232C) 3m (9.8 ft) cable length	<b>EA-DH485-CBL</b>	\$20.00
GE 90/30 and 90/70, Micro 90, VersaMax Micro (Port 2) 15-pin D-sub port (RS-422A) 3m (9.8 ft) cable length	<b>EA-90-30-CBL</b>	\$20.00
MITSUBISHI FX Series 25-pin port (RS-422A) 3m (9.8 ft) cable length	<b>EA-MITSU-CBL</b>	\$20.00
MITSUBISHI FX Series 8-pin mini-DIN (RS-422A) 3m (9.8 ft) cable length	<b>EA-MITSU-CBL-1</b>	\$20.00
OMRON Host Link C200 Adapter, C500 (RS-232C) 3m (9.8 ft) cable length	<b>EA-OMRON-CBL</b>	\$20.00
<b>* BX-P-SER2-RJ12 is required</b>		
<b>EA3-T8CL and EA3-T10CL cannot be powered by a PLC and cannot communicate with a PLC through the USB Programming Port.</b>		
<b>Note: Adding the optional EA-ECOM module allows communication via an Ethernet connection (EA3 series only).</b>		



D0-CBL



OP-3CBL-1



FA-15HD



FA-CABKIT



EA-2CBL-1



EA-2CBL



EA-4CBL-1



EA-3CBL



EA-MLOGIX-CBL



EA-4CBL-2



EA-PLC5-232-CBL



EA-SLC-232-CBL



EA-DH485-CBL



EA-90-30-CBL



EA-MITSU-CBL



EA-MITSU-CBL-1



EA-OMRON-CBL

# C-more Micro Programming Software

## FREE software!

**C-more** Micro Programming Software can be downloaded at no charge or a CD version may be purchased by ordering EA-MG-PGMSW. The software requires a USB port or Ethernet connection\* on your PC to connect to the **C-more** Micro panel. Software Help Files are included in the download. This software programs all the **C-more** Micro panels (does not program the **C-more** 6-inch through 15-inch touch panels).



Copyright © AutomationDirect.com. All rights reserved.



**Note: This software is used to program C-more Micro panels only.**



**Note: The Ethernet port is built in to EA3-S3ML and EA3-T4CL. EA3-T6CL, EA3-T8CL and EA3-T10CL require the optional EA-ECOM module for Ethernet.**

Part Number	Panel Software / Firmware Version Required
EA1-S3ML	1.0 or later
EA1-S3ML-N	
EA1-S3MLW	
EA1-S3MLW-N	1.5 or later
EA1-T4CL	
EA1-T6CL	
EA3-S3ML-RN	4.30 or later
EA3-S3ML-R	
EA3-S3ML	
EA3-T4CL	4.20 or later
EA3-T6CL	
EA3-T8CL	
EA3-T10CL	3.5 or later

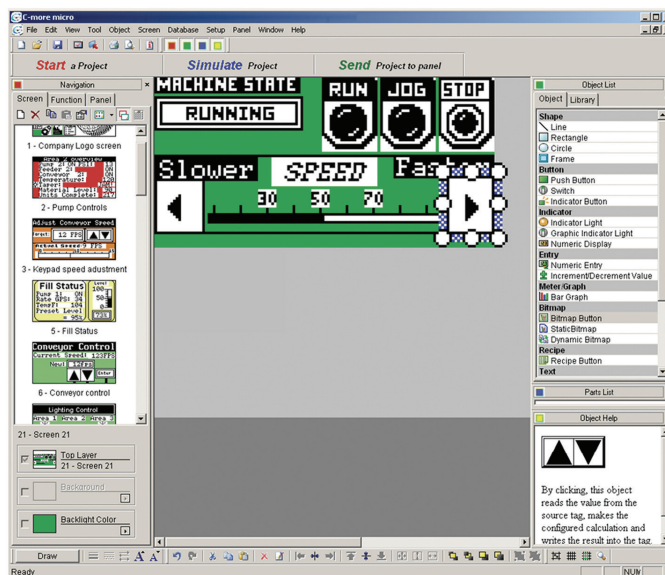
**C-more** Micro Programming Software is a spin-off of its powerful sibling **C-more** Touch Panel. It offers very high end features designed to reduce your configuration time. Simply drag and drop the objects from the object list (right side of screen) onto the screen construction area. Then configure your PLC tags and click on the objects you wish to use. Use the built-in simulator to review your work on your PC before ever downloading your project! The time saving benefits of the **C-more** Micro configuration software could easily pay for the panel. Check out [www.CmoreMicro.com](http://www.CmoreMicro.com) to download a free version.

## Built-in project simulator

- Runs your project on your PC
- Test all of your screens before downloading
- Time savings pays for the panel
- Simulate function keys and keypad bezel

## Built-in user object/ screen libraries

Save time by re-using your custom objects and screens.



## Thumbnail project preview pane

Helps keep track of multi-screen projects.

## Scrolling object selection window

Lets you find the object you want fast. Just drag and drop it on the screen.

## PC requirements

Following are the minimum system requirements for running **C-more** Micro Programming Software, EA-MG-PGMSW, on a PC:

- Operating System - Windows® XP Professional Edition Service Pack 2, Windows® 7 (32 or 64 bit), Windows 8 (32 or 64 bit) or Windows 10
- 150 MB free hard-disk space
- CD-ROM or DVD drive for installing software from the CD, or internet access to download free programming software
- USB port to use with the correct Programming Cable Assembly for project transfer from the programming software to the panel

## Scrolling help window

Gives you helpful information on each object

# USB Programming Cables

## USB Cables

AutomationDirect's high quality USB cables are used to connect USB devices to a USB port on a PC. Each cable has Standard-A plug to Standard-B plug end connectors, both gold plated, and meet the USB 2.0 requirements. These cables can be used for programming Productivity Series CPUs, C-more panels, certain C-more Micro panels and PC to touchscreen connections for Atlas Industrial Monitors that include touchscreen capability.



## Standard A to standard B



Part Number	Description	Price
<b>USB-CBL-AB3</b>	3-ft (0.9 meter) Standard USB 2.0 cable with Standard-A plug to Standard-B plug. Suitable for all USB devices.	\$7.50
<b>USB-CBL-AB6</b>	6-ft (1.8 meter) Standard USB 2.0 cable with Standard-A plug to Standard-B plug. Suitable for all USB devices.	\$9.50
<b>USB-CBL-AB10</b>	10-ft (3 meter) Standard USB 2.0 cable with Standard-A plug to Standard-B plug. Suitable for all USB devices.	\$18.00
<b>USB-CBL-AB15</b>	15-ft (4.6 meter) Standard USB 2.0 cable with Standard-A plug to Standard-B plug. Suitable for all USB devices.	\$22.50

## Standard A to micro B



Part Number	Description	Price
<b>USB-CBL-AMICB6</b>	Programming cable, USB A to micro-B USB, 6ft cable length.	\$5.00
<b>USB-CBL-AMICB15</b>	Programming cable, USB A to micro-B USB, 15ft cable length.	\$8.50



- Productivity Series CPUs
- **C-more** panels
- **C-more** Micro panels
- Atlas Industrial Monitors with touchscreen capability.