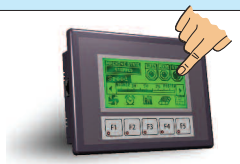
C-more Micro Panels Selection Guide

C-more Micro Panels			
Part Number		**Description**	**Price**
EA1-S3ML		***C-more*** Micro touch screen interface panel, 3.1-inch, monochrome STN LCD, 128 x 64 pixel. Supports 5 selectable background colors: red, green, amber, lime, and yellow; 5 user-defined function keys with LED indicators. Includes (1) serial port. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only). Power is supplied to the panel through the serial communication port connection when used with AutomationDirect PLCs having an RJ12 communication port. EA-MG-SP1 (power supply with serial port option module) required when connecting to third party PLCs.	$205.00
EA1-S3ML-N	**Non-Touch**	***C-more*** Micro non-touch screen interface panel, 3.1-inch, monochrome STN LCD, 128 x 64 pixel. Supports 5 selectable background colors: red, green, amber, lime, and yellow; 5 user-defined function keys with LED indicators. Includes (1) serial port. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only). Power is supplied to the panel through the serial communication port connection when used with AutomationDirect PLCs having an RJ12 communication port. EA-MG-SP1 (power supply with serial port option module) required when connecting to third party PLCs.	$161.00
EA1-S3MLW		***C-more*** Micro touch screen interface panel, 3.1-inch, monochrome STN LCD, 128 x 64 pixel, high-contrast white. Supports 5 selectable background colors: white, pink1, pink2, pink3, and red; 5 user-defined function keys with LED indicators. Includes (1) serial port. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only). Power is supplied to the panel through the serial communication port connection when used with AutomationDirect PLCs having an RJ12 communication port. EA-MG-SP1 (power supply with serial port option module) required when connecting to third party PLCs.	$205.00
EA1-S3MLW-N	**Non-Touch**	***C-more*** Micro non-touch screen interface panel, 3.1-inch, monochrome STN LCD, 128 x 64 pixel, high-contrast white. Supports 5 selectable background colors: white, pink1, pink2, pink3, and red; 5 user-defined function keys with LED indicators. Includes (1) serial port. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only). Power is supplied to the panel through the serial communication port connection when used with AutomationDirect PLCs having an RJ12 communication port. EA-MG-SP1 (power supply with serial port option module) required when connecting to third party PLCs.	$161.00
EA1-T4CL		***C-more*** Micro touch screen interface panel, 4-inch, TFT color LCD, 320 x 240 pixel, 32k colors, LED backlight, 5 user-defined function keys with LED indicators. Includes (1) USB Type B port and (1) serial port. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only). Display supports Portrait and Landscape modes. Panel mount conforms to standard 1/4 DIN cutout.	$356.00
EA1-S6ML		***C-more*** Micro touch screen interface panel, 6-inch, monochrome STN LCD, 320 x 240 pixel. Supports 5 selectable background colors: red, green, amber, lime, and yellow; 5 user-defined function keys with LED indicators. Includes (2) serial ports. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only). Display supports Portrait and Landscape modes.	$324.00
EA1-S6MLW		***C-more*** Micro touch screen interface panel, 6-inch, monochrome STN LCD, 320 x 240 pixel, high-contrast white. Supports 5 selectable background colors: white, pink1, pink2, pink3, and red; 5 user-defined function keys with LED indicators. Includes (2) serial ports. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only). Display supports Portrait and Landscape modes.	$324.00
EA1-T6CL		***C-more*** Micro touch screen interface panel, 6-inch, color TFT, 320 x 240 pixel, 32k colors, LED backlight, 5 user-defined function keys with LED indicators. Includes (1) USB Type B port and (1) 15-pin D-sub RS-232/422/485 serial port. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only). Display supports Portrait and Landscape modes.	$432.00
EA3-T8CL		***C-more*** Micro touch screen interface panel, 8-inch, color TFT, 800 x 600 pixel, 32k colors, LED backlight, seven user-defined function keys with LED indicators. Includes (2) serial ports and (1) USB Type B programming port. Display supports Portrait and Landscape modes. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only). Compatible with EA-MG-PGMSW programming software version 3.5 or later.	$749.00
EA3-T10CL		***C-more*** Micro touch screen interface panel, 10-inch, color TFT, 800 x 600 pixel, 32k colors, LED backlight, seven user-defined function keys with LED indicators. Includes (2) serial ports and (1) USB Type B programming port. Display supports Portrait and Landscape modes. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only). Compatible with EA-MG-PGMSW programming software version 3.5 or later.	$899.00

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DirectLOGIC DL405
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Productivity 3000
Universal Field I/O
Software
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C-More Micro HMI
ViewMarq Industrial Marquees
Other HMI
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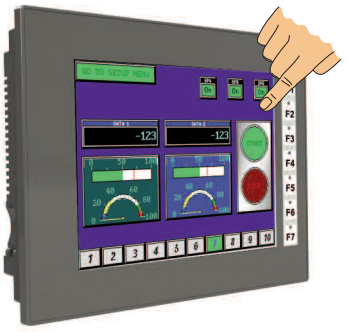
C-more Micro Panel Accessories			
Part Number		**Description**	**Price**
EA-MG-BZ1		8-button keypad bezel for *C-more* 3" Micro panels, with four arrow adjust keys, and ESCAPE, MENU, CLEAR and ENTER buttons. Helps to reduce screen wear in heavy-duty applications where operators can use the keypad. Designed for easy drop-in of the Micro panels.	$64.00
EA-MG-BZ2		20-button keypad bezel with numeric keypad for *C-more* 3" Micro panels, with four arrow adjust keys, and ESCAPE, MENU, CLEAR and ENTER buttons. Helps to reduce screen wear in heavy-duty applications where operators can use the keypad to enter numeric data. Designed for easy drop-in of the Micro panels.	$87.00
EA-MG-P1		Optional DC Power Adapter for *C-more* 3" Micro panels. Required when using third party PLCs, or when using 24VDC power instead of the 5VDC supplied from the RJ12 connector of a Productivity Series, CLICK or *Direct*LOGIC PLC.	$31.50
EA-MG-SP1		Optional Serial Port with DC Power Adapter for *C-more* 3" Micro panels. Serial port is a D-Sub 15-pin RS-232/RS-422/485 connector. Required when using RS422, RS485 or third party PLCs.	$54.00
EA-MG6-BZ2		20-button keypad bezel with numeric keypad for 6-inch *C-more* Micro panels being used in landscape (horizontal) mounted mode, with 2 arrow adjust keys, and ESCAPE, MENU, CLEAR and ENTER buttons. Helps to reduce screen wear in heavy-duty applications where operators can use the keypad to enter numeric data. Designed for easy drop-in of the 6-inch Micro panels.	$107.00
EA-MG6-BZ2P		21-button keypad bezel with numeric keypad for 6-inch *C-more* Micro panels being used in Portrait (vertical) mounted mode, with 2 arrow adjust keys, and ESCAPE, MENU, CLEAR and ENTER buttons. Helps to reduce screen wear in heavy-duty applications where operators can use the keypad to enter numeric data. Designed for easy drop-in of the 6-inch Micro panels.	$79.00
EA-MG-COV-CL		Optional clear screen overlay used to protect *C-more* 3" Micro displays from minor scratches and wear. Package contains five (5) clear screen overlays.	$35.50
EA-4-COV2		Optional clear screen overlay used to protect *C-more* 4" Micro displays from minor scratches and wear. Package contains three (3) clear screen overlays.	$33.50
EA-6-COV2		Optional clear screen overlay used to protect *C-more* 6" Micro displays from minor scratches and wear. Package contains three (3) clear screen overlays.	$37.00
EA-8-COV2		Optional clear screen overlay used to protect *C-more* 8" Micro displays from minor scratches and wear. Package contains three (3) clear screen overlays.	$40.00
EA-10-COV2		Optional clear screen overlay used to protect *C-more* 10" Micro displays from minor scratches and wear. Package contains three (3) clear screen overlays.	$45.50

C-more 8" Micro TFT 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. In landscape mode, the panel can display 100 lines of static text, maximum 200 characters wide. In portrait mode the screens can display 133 lines of static text, maximum 150 characters wide. The panels also support 40 characters of dynamic text with embedded variables. It is rated UL for use on a flat surface of Type 1, 4X enclosure (for indoor use only). *C-more* 8" Micro TFT panels are powered from a Class 2, 12-24 VDC power supply.

Part No. EA3-T8CL



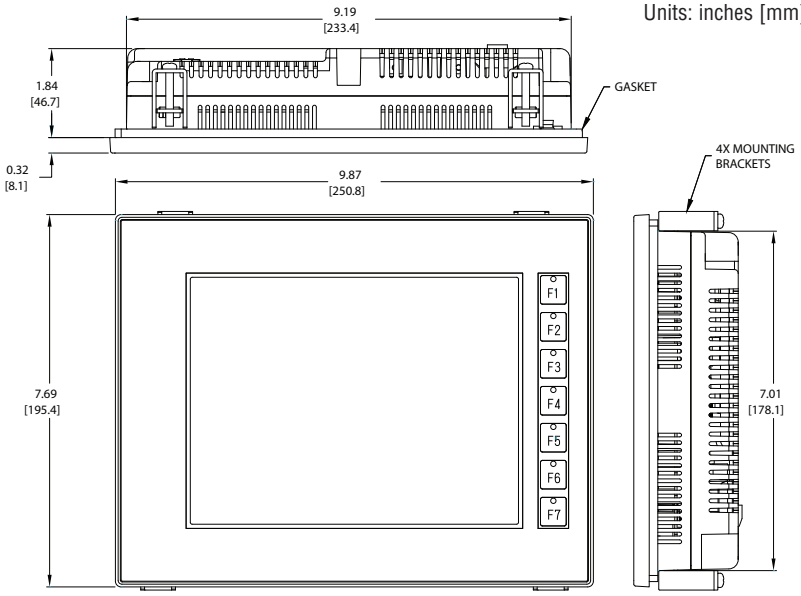
$749.00

Features

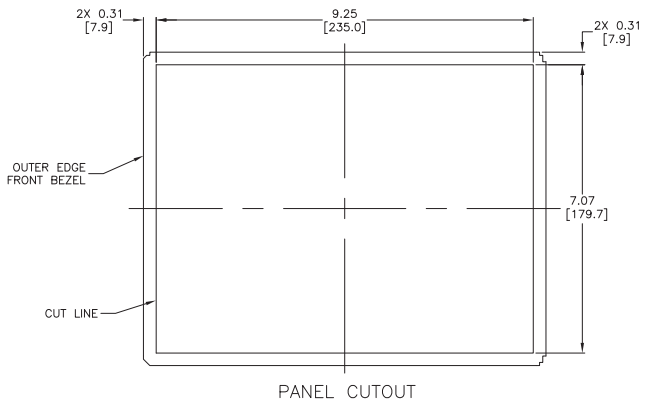
- Touch screen display
- Free downloadable programming software
- 800 x 600 Dot display with up to 100 lines by 200 characters of text and graphics in landscape mode
- Up to 40 characters of dynamic text with embedded variables and phrases mixed with graphics
- Seven programmable function keys can change with every screen. Can increment / decrement values, trigger recipes, view index of screens.
- 32K colors
- Optional replaceable clear screen overlay
- 30MB memory
- 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

Dimensions

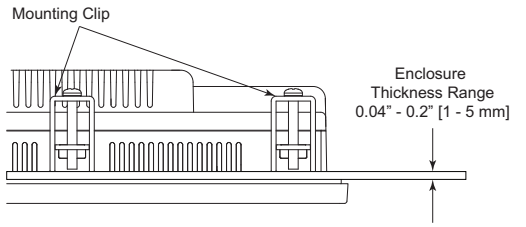
Units: inches [mm]



Panel Cutout



Panel Thickness



C-more 8" and 10" Micro Specifications

Specifications		
Part Number:	***EA3-T8CL***	***EA3-T10CL***
Description:	800 x 600 pixels LCD display (Landscape mode), Seven user defined keypad function buttons with seven user defined LED indicators	
Display:		
• Type	8.4" TFT Graphical type with LED Backlight	10.4" TFT Graphical type with LED Backlight
• Resolution	800 (W) x 600 (H) pixels (Landscape Mode) 600 (W) x 800 (H) pixels (Portrait Mode)	
• Color	32768 colors	
• Display Brightness (Reference)	295 nits (typ)	270 nits (typ)
• Viewing Area Size	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	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]
• 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 –> 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 touch panel	
• Operation	82 gram force [0.8 N] maximum	
• Life	Minimum of 1,000,000 cycles	
Features:		
• User Memory	30MB	
• Number of Screens	Up to 999 – limited by project memory usage	
• Beep (Internal)	Yes	
• Keypad Function Buttons	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)	
Screen Objects:		
• Functional Devices	Push Button, 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, Text Entry, Screen Change Push Button, Screen Selector, Adjust Contrast, Function Key Configuration Object, Real Time 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	

***C-more* 8" and 10" Micro panel specifications continued on next page.**

C-more 8" and 10" Micro Specifications

Specifications (cont'd)		
Part Number:	**EA3-T8CL**	**EA3-T10CL**
Electrical:		
• Input Power	10.2 - 26.4 VDC, Class 2 power supply	
• Power Consumption	8W	10W
• Maximum Inrush Current	10A for 1ms	
• Acceptable External Power Drop Duration	Maximum 1 ms	
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	No corrosive gasses permitted (EN61131-2 pollution degree 1)	
• Housing Material	ABS plastic	
• Gasket Material	Silicone rubber	
• Overlay Sheet Material	PET	
• 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, 11 ms duration, three shocks in each direction per axis, on 3 mutually perpendicular axes (total of 18 shocks)	
• Noise Immunity	NEMA ICS3-304 RFI, (145 MHz, 440 MHz 10 W @ 10 cm) Impulse 1000 V @ 1 µs pulse	
• Enclosure	NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only IP-65 indoor use only (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:		
• Dimensions	9.87" (W) x 7.69" (H) x 2.16" (D) [250.7 mm x 195.3 mm x 54.9 mm]	12.52" (W) x 9.53" (H) x 2.16" (D) [318.0 mm x 242.1 mm x 54.9 mm]
• Enclosure Mounting Thickness Range	0.04" – 0.2" [1 – 5 mm]	
• Mounting Clip Screw Torque Range	63 – 77 oz-in [0.45 – 0.55 Nm]	
• Weight	39.9 oz. (1130g)	57.1 oz. (1620g)

NOTE: EA3-T8CL and EA3-T10CL cannot be powered by a PLC and cannot communicate with a PLC through the USB prpgramming port

For a list of supported protocols and cabling options refer to the 8" & 10" *C-more* Micro Protocols and cabling chart starting on page CK-77.

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C-more 8" and 10" Micro Panels Overview

Overview

C-more 8" and 10" Micro panels are full color, TFT models that offer touch screen capability and customizable graphics.

In addition to the simple panel configuration software, a very helpful feature is the built-in project simulator. The project simulator allows you to view your project on the PC screen as it would appear on the panel and to test all your screens before downloading the project to the panel. You can simulate your entire project at any stage of development and even simulate the function keys.

Getting started

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

- ***C-more*** Micro panel
- ***C-more*** Micro Programming Software EA-MG-PGMSW (Downloadable version available from the ***AutomationDirect*** web site at no charge.)
- ***C-more*** Micro USB Programming Cable such as USB-CBL-AB6, used to connect between a PC and the Micro panel's built-in programming port.
- Power source – An external Class 2, 12-24 VDC power source is required. Recommended power supply is AutomationDirect part number PSC-24-030.
- Personal computer – to run the ***C-more*** Micro programming software
- Communications Cable (serial) – to connect the ***C-more*** Micro panel to your PLC or other controller with which the panel will communicate.

Drivers for your Controller

C-more 8" and 10" Micro panels have the following drivers available for connection to AutomationDirect PLCs and many other devices:

- AutomationDirect Productivity series
- AutomationDirect Do-more
- AutomationDirect CLICK (Modbus)
- ***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

EA3-T8CL
$749.00

EA3-T10CL
$899.00

NOTE: EA3-T8CL and EA3-T10CL require Software and Firmware Version 3.5 or later. Available for free download at *www.automationdirect.com.*

Features

Seven Programmable Function Keys

- Increment / decrement values
- Trigger recipes
- Change screens

Communication Ports

- RJ12 RS-232 serial communication port
- 15-pin D-sub RS-232/422/485 serial communication port

Bitmaps

- 800 X 600 pixel graphical display supports bitmaps
- Use bitmap images of pushbuttons, switches, indicators, your company logo
- Use provided library of bitmaps
- Create your own library of bitmaps

Text - 40 lines

- 100 lines by 200 characters of static text in landscape orientation
- 133 lines by 150 characters of static text in portrait orientation
- Look up text, scroll up to 128 characters
- Dynamic text, embedded variables, on/off phrases, scroll up to 40 characters
- Scroll text object with up to 128 characters

Beep

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

Bar graphs

- Line, vertical, horizontal, skinny, fat, multiple

Data entry

- Pop-up numeric key pad on the screen
- Increment/decrement a value by touching arrows
- Pop-up text entry keypad on the screen

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.

32K Colors

The TFT panel has a palette of 32K colors available to make full use of color for objects and bitmaps as well as backgrounds.

Up to 999 Screens

C-more Micro supports up to 999 screens. Screen quantity is limited by memory usage which is determined by the total bitmaps, objects, etc. that are used.

C-more 8" and 10" Micro Panels Overview

C-more 8" and 10" TFT Micro Panels			
Part Number		**Description**	**Price**
EA3-T8CL		*C-more* Micro touch screen interface panel, 8-inch, color TFT, 800 x 600 pixel, 32k colors, LED backlight, seven user-defined function keys with LED indicators. Includes (2) serial ports and (1) USB Type B programming port. Display supports Portrait and Landscape modes. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only). Compatible with EA-MG-PGMSW programming software version 3.5 or later.	$749.00
EA3-T10CL		*C-more* Micro touch screen interface panel, 10-inch, color TFT, 800 x 600 pixel, 32k colors, LED backlight, seven user-defined function keys with LED indicators. Includes (2) serial ports and (1) USB Type B programming port. Display supports Portrait and Landscape modes. NEMA 4/4X, IP65 (when mounted correctly; for indoor use only). Compatible with EA-MG-PGMSW programming software version 3.5 or later.	$899.00

Note: Software and Firmware Version 3.5 or later is required with models EA3-T8CL and EA3-T10CL. Available for free download at *www.automationdirect.com.*

C-more Micro Programming Software			
Part Number		**Description**	**Price**
EA-MG-PGMSW		*C-more* Micro panel Windows-based configuration software. Requires XP Professional 32-bit with Service Pack 2, Vista, Windows 7 32-bit or 64-bit or Windows 8 32-bit or 64 bit. Requires USB port connection from PC to touch panel. Includes CD-ROM. Programming cable sold separately. Downloadable version available from the Web site at no charge. Software Help Files included in download. Programs all C-more Micro Panels	$25.00
USB-CBL-AB3		The *C-more* Micro TFT panel requires a USB A-to-B type cable to connect a personal computer to the panel for programming. (Note: The TFT panel includes a built-in USB to serial converter and the USB driver will appear as a COM port to the PC when properly installed.)	$7.50
USB-CBL-AB6			$9.50
USB-CBL-AB10			$18.00
USB-CBL-AB15			$22.50

C-more 8" and 10" Micro Panel Accessories			
Part Number		**Description**	**Price**
EA-8-COV2		Optional clear screen overlay used to protect *C-more* 8" Micro displays from minor scratches and wear. Package contains 3 clear screen overlays.	$40.00
EA-10-COV2		Optional clear screen overlay used to protect *C-more* 10" Micro displays from minor scratches and wear. Package contains 3 clear screen overlays.	$45.50

For a list of supported protocols and cabling options refer to the 8" & 10" *C-more* Micro Protocols and cabling chart starting on page CK-77.

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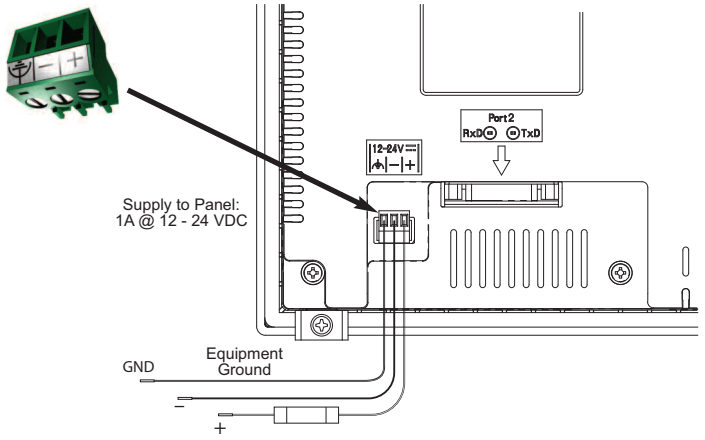
C-more 8” and 10” Micro Power Connection Wiring

Providing power to the touch panel

The panel is powered by a Class 2, 1 Amp @ 12-24 VDC power source in normal operation. Recommended power supply is AutomationDirect part number PSC-24-030.

8” and 10” Panels wiring diagram



NOTE: Recommended DC power supply to power the *C-more* Micro Panel, *AutomationDirect* Part No. PSC-24-030.

C-more 8” and 10” Micro Panel Accessories

D-SUB 15-pin to Terminal Block Adapter

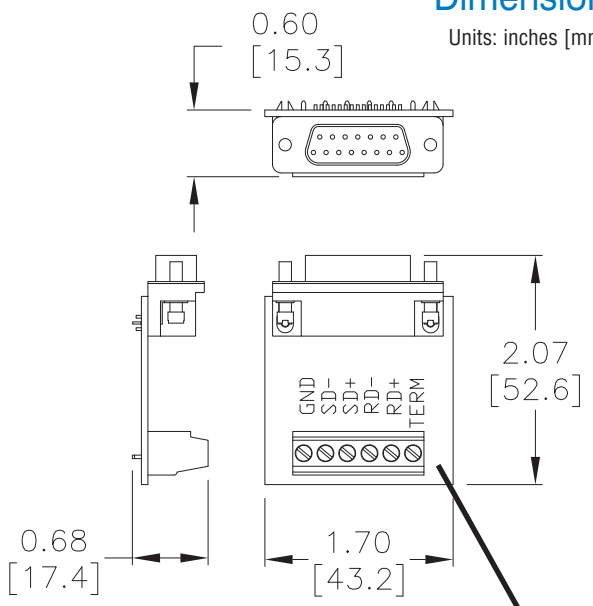
The EA-COMCON-3A adapter plugs into the 15-pin serial port on the rear of a *C-more* Micro panel to allow wire terminal connections for an RS-422/RS-485/DH-485 PLC communication cable.

Part No.
EA-COMCON-3A

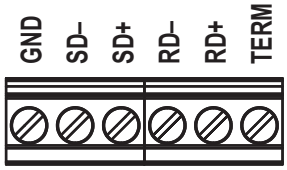
$19.00

Dimensions

Units: inches [mm]



Terminals



C-more 8” and 10” Micro Panel Accessories

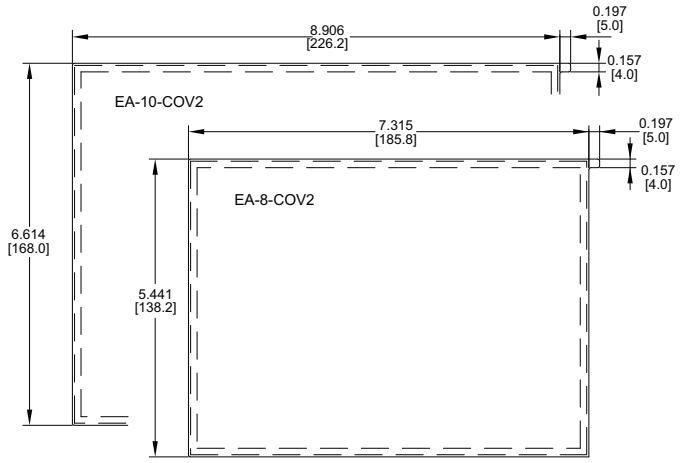
Clear Screen Overlay

Optional clear screen overlay used to protect *C-more* 8″ and 10″ Micro displays from minor scratches and wear. Package contains three clear screen overlays.

Part No. EA-8-COV2
EA-10-COV2

Dimensions

Units: inches [mm]



Clear Screen Overlay Installation

Step 1

Remove the overlay from the package

Step 2

Remove the paper backing from the overlay

Step 3

Align the overlay with the screen and press the adhesive firmly into place

Step 4

Remove the protective film*

***Note: The overlay cover ships with a thin protective film on the face that should be carefully removed after installation.**

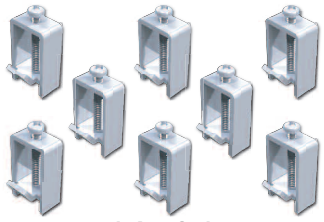
C-more 8" and 10" Micro Replacement Parts

The optional replacement parts can be used to replace damaged, worn or lost *C-more* 8" and 10" Micro panel components.

Replacement parts at a glance:

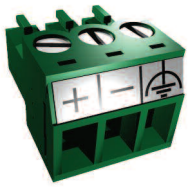
Part Number	Description	Price
EA3-BRK	Replacement mounting clips for C-more Micro EA3 series (pack of 8)	$27.00
EA-MG-DC-CON	Replacement DC power connector (pack of 5)	$14.00
EA3-8-GSK	Replacement mounting gasket for ***C-more*** 8" Micro panels	$17.00
EA3-10-GSK	Replacement mounting gasket for ***C-more***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



(pk of 8)

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

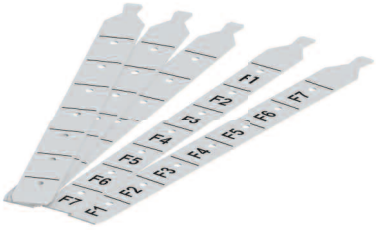


(pk of 5)

Panel Gasket
Part No. EA3-8-GSK

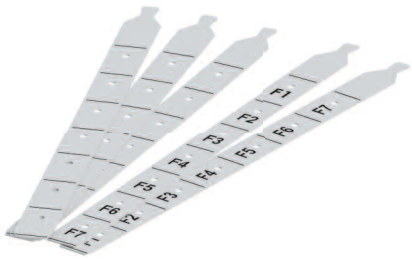
Panel Gasket
Part No. EA3-10-GSK

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



(pk of 5; 3 blank, 1 F1-F7 for landscape, 1 F1-F7 for portrait)

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



(pk of 5; 3 blank, 1 F1-F7 for landscape, 1 F1-F7 for portrait)

C-more 8" & 10" Micro PLC Connections

Cabling requirements

When using the built in RJ12 serial port (Port1) on models EA3-T8CL or EA3-T10CL to connect with the CLICK, ProductivitySeries, DL05, DL06, DL105, DL205, D3-350 and D4-450 CPUs, your cabling choices are fairly simple.

- **D0-CBL — connects to P3-530, P3-550, Do-more, CLICK, DL05, DL06, DL105, DL205, D3-350 and D4-450 phone jack.**
- **D4-1000CBL — connects to all DL405 CPU 15-pin ports.**

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

The *C-more* 8" and 10" Micro panels 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 P3-530, P3-550, Do-more, 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.**

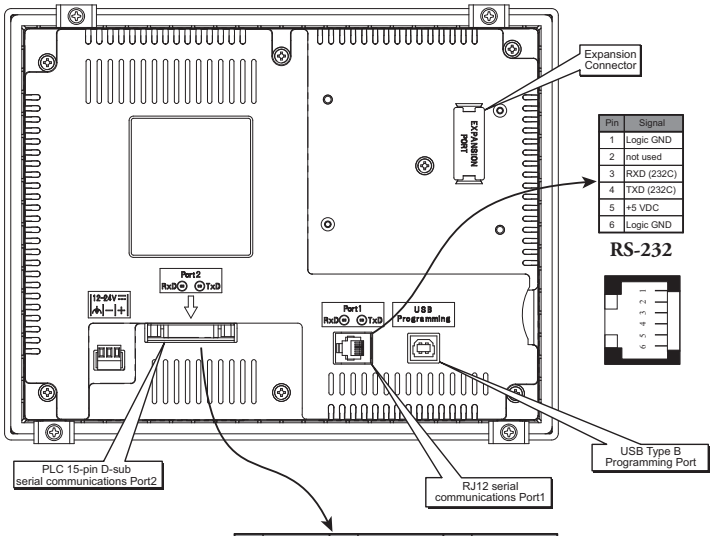
The USB programming port on these TFT models is for programming only.

Drivers for your Controller

- AutomationDirect Productivity series
- AutomationDirect Do-more
- AutomationDirect CLICK (Modbus)
- ***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

Communication Ports

EA3-T8CL & EA3-T10CL



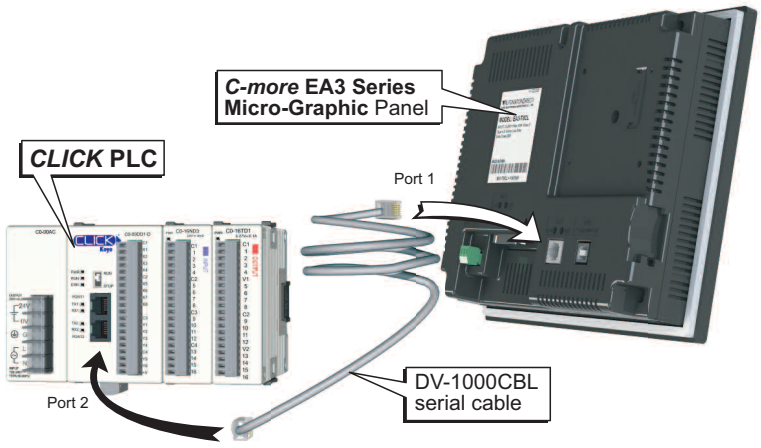
Pin	Signal
1	Logic GND
2	not used
3	RXD (232C)
4	TXD (232C)
5	+5 VDC
6	Logic GND

RS-232

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	do not use	9	RXD+ (422/485)	14	do not use
5	Logic GND	10	RXD– (422/485)	15	do not use

RS-232/422/485

C-more EA3 Micro Port 1 to CLICK PLC Port 2



C-more 8" & 10" Micro Communication Protocols & Cabling Chart

Controller Compatibility & Connection Chart

PLC			*C-more* 8" and 10" Micro Panel			
			Panel to PLC Cabling Components Required for Specific Port and Protocol being used.			
			Using panel's RJ12 Port1		Using panel's Port2 DB 15-pin - female	
Family	*CPU*	*PLC Port & Type*	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type
CLICK	all versions	Port 1 RJ12 - 6 pin	Modbus (CLICK)	**DO-CBL** RS-232	Modbus (CLICK)	**EA-2CBL** RS-232
		Port 2 RJ12 - 6 pin				
	Analog CPU's	Port3 Term block 3-pin		N/A		*** See Note** RS-485
Productivity Series	all versions	RS-232 RJ12 - 6 pin	Productivity3000 Serial (P3-550)	**DO-CBL** RS-232	Productivity3000 Serial (P3-550)	**EA-2CBL** RS-232
		RS-485 Port Term block 3-pin		N/A		*** See Note** RS-485
Do-more	all versions	RS-232 RJ12 - 6 pin	Do-more Serial, K-sequence, Modbus RTU	**DO-CBL** RS-232	Do-more Serial, K-sequence, Modbus RTU	**EA-2CBL** RS-232
	H2-SERIO	RS-232 RJ12 - 6 pin				
	H2-SERIO-4	RS-232 RJ12 - 6 pin				
Entivity	H2-WinPLC	RS-232 RJ12 - 6 pin	Entivity Modbus RTU Modbus RTU	**DO-CBL** RS-232	Entivity Modbus RTU Modbus RTU	**EA-2CBL** RS-232
	H2-SERIO	RS-232 RJ12 - 6 pin				
	H2-SERIO-4	RS-232 RJ12 - 6 pin				
***Direct*LOGIC DL05**	all versions	Port 1 RJ12 - 6 pin	K-sequence, ***Direct*NET**, Modbus RTU	**DO-CBL** RS-232	K-sequence, ***Direct*NET**, Modbus RTU	**EA-2CBL** RS-232
		Port 2 RJ12 - 6 pin				
	D0-DCM	Port 1 RJ12 - 6 pin	K-sequence, ***Direct*NET**, Modbus RTU	**DO-CBL** RS-232	K-sequence, ***Direct*NET**, Modbus RTU	**EA-2CBL** RS-232
		Port 2 DB15HD (female)		**DO-CBL + FA-15HD** RS-232		**EA-2CBL-1** RS-232
						*** See Note** RS-422
					Modbus RTU	*** See Note** RS-485 Modbus only
***Direct*LOGIC DL06**	all versions	Port 1 RJ12 - 6 pin	K-sequence, ***Direct*NET**, Modbus RTU	**DO-CBL** RS-232	K-sequence, ***Direct*NET**, Modbus RTU	**EA-2CBL** RS-232
		Port 2 DB15HD (female)		**DO-CBL + FA-15HD** RS-232		**EA-2CBL-1** RS-232
						*** See Note** RS-422
					Modbus RTU	*** See Note** RS-485 Modbus only
	D0-DCM	Port 1 RJ12 - 6 pin	K-sequence, ***Direct*NET**, Modbus RTU	**DO-CBL** RS-232	K-sequence, ***Direct*NET**, Modbus RTU	**EA-2CBL** RS-232
		Port 2 DB15HD (female)		**DO-CBL + FA-15HD** RS-232		**EA-2CBL-1** RS-232
						*** See Note** RS-422
					Modbus RTU	*** See Note** RS-485 Modbus only
***Direct*LOGIC DL105**	all versions	Port 1 RJ12 - 6 pin	K-sequence	**DO-CBL** RS-232	K-sequence	**EA-2CBL** RS-232

*** Note: See the *C-more* EA3 Micro Hardware User Manual (P/N: EA3-USER-M), Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. The manual is available for download at www.automationdirect.com.**

EA3-T8CL and EA3-T10CL require an external power supply.

PLC Compatibility & Connection Chart continued on next page.

C-more 8" & 10" Micro Communication Protocols & Cabling Chart (cont'd)

Controller Compatibility & Connection Chart

PLC			C-more 8" and 10" Micro Panel			
			Panel to PLC Cabling Components Required for Specific Port and Protocol being used.			
			Using panel's RJ12 port 1		Using panel's Port2 DB 15-pin - female	
Family	CPU	Port & Type	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type
*Direct*LOGIC DL205	D2-230	Port 1 RJ12 - 6 pin	K-sequence	D0-CBL RS-232	K-sequence	EA-2CBL RS-232
	D2-240	Port 1 RJ12 - 6 pin	K-sequence	D0-CBL RS-232	K-sequence	EA-2CBL RS-232
		Port 2 RJ12 - 6 pin	K-sequence, Direct NET,		K-sequence, Direct NET,	
	D2-250-1	D2-250-1	K-sequence, Direct NET, Modbus RTU	D0-CBL RS-232	K-sequence, *Direct*NET, Modbus RTU	EA-2CBL RS-232
		Port 2 DB15HD (female)		D0-CBL + FA-15HD RS-232		EA-2CBL-1 RS-232
						* See Note RS-422
	D2-260	Port 1 RJ12 - 6 pin	K-sequence, *Direct*NET, Modbus RTU	D0-CBL RS-232	K-sequence, *Direct*NET, Modbus RTU	EA-2CBL RS-232
		Port 2 DB15HD (female)		D0-CBL + FA-15HD RS-232		EA-2CBL-1 RS-232
						* See Note RS-422
					Modbus RTU	* See Note RS-485 Modbus only
	D2-DCM	Port 1 DB 25 pin (female)	K-sequence, *Direct*NET, Modbus RTU	*See Note RS-232	*Direct*NET	EA-4CBL-2 RS-232
						* See Note RS-422
	WINPLC	Port 1 RJ12 - 6 pin	Modbus RTU	D0-CBL RS-232	Modbus RTU	EA-2CBL RS-232
*Direct*LOGIC DL305	D3-330 or D3-340	D3-232-DCU DB 25 pin (female)	*Direct*NET	D0-CBL +FA-CABKIT RS-232	*Direct*NET	EA-4CBL-2 RS-232
		D3-422-DCU DB 25 pin (female)	N/A		*Direct*NET	*See Note RS-422
	D3-340	Port 1 RJ11 - 4 pin	*Direct*NET	OP-3CBL-1 RS-232	*Direct*NET	EA-3CBL RS-232
		Port 2 RJ11 - 4 pin	*Direct*NET, Modbus RTU		*Direct*NET, Modbus RTU	
	D3-350	Port 1 RJ12 - 6 pin	K-sequence, *Direct*NET	D0-CBL RS-232	K-sequence, *Direct*NET	EA-2CBL RS-232
		Port 2 DB 25 pin (female)	K-sequence, *Direct*NET, Modbus RTU	*See Note RS-232	K-sequence, *Direct*NET, Modbus RTU	EA-4CBL-2 RS-232
						*See Note RS-422
	D3-DCM D3-350 only	Port 1 DB 25 pin (female)	K-sequence, *Direct*NET, Modbus RTU	*See Note RS-232	*Direct*NET	EA-4CBL-2 RS-232
						*See Note RS-422

*** Note: See the *C-more* EA3 Micro Hardware User Manual (P/N: EA3-USER-M), Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. The manual is available for download at www.automationdirect.com.**

EA3-T8CL and EA3-T10CL require an external power supply.

PLC Compatibility & Connection Chart continued on next page.

C-more 8" & 10" Micro Communication Protocols & Cabling Chart (cont'd)

Controller Compatibility & Connection Chart

PLC			*C-more 8" and 10" Micro Panel*			
			Panel to PLC Cabling Components Required for Specific Port and Protocol being used.			
			Using panel's RJ12 port 1		Using panel's Port2 DB 15-pin - female	
Family	*CPU*	*Port & Type*	Protocol(s) Supported	Components & Network Type	Protocol(s) Supported	Components & Network Type
*Direct*LOGIC DL405	D4-430	Port 0 DB 15 pin (female)	K-sequence	D4-1000CBL or D0-CBL & FA-CABKIT RS-232	K-sequence	EA-4CBL-1 RS-232
		Port 1 DB 25 pin (female)	K-sequence, *Direct*NET	D0-CBL & FA-CABKIT RS-232	K-sequence, *Direct*NET	EA-4CBL-2 RS-232 *See Note RS-422
	D4-440	Port 0 DB 15 pin (female)	K-sequence	D4-1000CBL or D0-CBL & FA-CABKIT RS-232	K-sequence	EA-4CBL-1 RS-232
		Port 1 DB 25 pin (female)	K-sequence, *Direct*NET	D0-CBL & FA-CABKIT RS-232	K-sequence, *Direct*NET	EA-4CBL-2 RS-232 *See Note RS-422
	D4-450	Port 0 DB 15 pin (female)	K-sequence	D4-1000CBL or D0-CBL & FA-CABKIT RS-232	K-sequence	EA-4CBL-1 RS-232
		Port 1 DB 25 pin (female)	K-sequence, *Direct*NET, Modbus RTU	D0-CBL & FA-CABKIT RS-232	K-sequence, *Direct*NET, Modbus RTU	EA-4CBL-2 RS-232 *See Note RS-422
		Port 3 DB 25 pin (female)	N/A		K-sequence, *Direct*NET, Modbus RTU	*See Note RS-422
		Port 2 RJ12 - 6 pin	K-sequence, *Direct*NET	D0-CBL RS-232	K-sequence, *Direct*NET	EA-2CBL RS-232
	D4-DCM	Port 1 DB 25 pin (female)	K-sequence, *Direct*NET, Modbus RTU	*See Note RS-232	*Direct*NET	EA-4CBL-2 RS-232 *See Note RS-422

*** Note: See the *C-more* EA3 Micro Hardware User Manual (P/N: EA3-USER-M), Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. The manual is available for download at www.automationdirect.com.**

EA3-T8CL and EA3-T10CL require an external power supply.

PLC Compatibility & Connection Chart continued on next page.

C-more 8" & 10" Micro Communication Protocols & Cabling Chart (cont'd)

Controller Compatibility & Connection Chart

PLC			C-more 8" and 10" Micro Panel			
			Panel to PLC Cabling Components Required for Specific Port and Protocol being used.			
			Using panel's RJ12 port 1		Using panel's Port2 DB 15-pin - female	
Family	CPU	Port & 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			DF1 Full Duplex DF1 Half Duplex	EA-MLOGIX-CBL RS-232
		RJ45 8-pin phone plug			DH485/AIC/AIC+	EA-DH485-CBL RS-232
Allen-Bradley SLC500	5/03, 5/04, 5/05	9-pin D-sub port			DF1 Full Duplex DF1 Half Duplex	EA-SLC-232-CBL RS-232
	5/01, 5/02, 5/03	RJ45 8-pin phone plug			DH485/AIC/AIC+	EA-DH485-CBL RS-232
Allen-Bradley ControlLogix	all	9-pin D-sub port			DF1 Full Duplex DF1 Half Duplex	EA-SLC-232-CBL RS-232
Allen-Bradley CompactLogix	all	9-pin D-sub port			DF1 Full Duplex DF1 Half Duplex	EA-SLC-232-CBL RS-232
Allen-Bradley FlexLogix	all	9-pin D-sub port			DF1 Full Duplex DF1 Half Duplex	EA-SLC-232-CBL RS-232
Allen-Bradley PLC5	all	25-pin D-sub port			DF1 Full Duplex	EA-PLC5–232-CBL RS-232
		RJ45 8-pin phone plug			DH485/AIC/AIC+	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

N/A

*** Note: See the *C-more* EA3 Micro Hardware User Manual (P/N: EA3-USER-M), Chapter 6: PLC Communications, for wiring diagrams that the user can use to construct their own cables. The manual is available for download at www.automationdirect.com.**

EA3-T8CL and EA3-T10CL require an external power supply.

PLC Compatibility & Connection Chart continued on next page.