

C-more Operator Panels Overview

Getting started

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

- **C-more** HMI - 6in, 7in wide, 8in, 10in, 10in wide, 12in, 15in or EA9-RHMI
- **C-more** Programming Software, p/n EA9-PGMSW
- **C-more** programming cable, USB or Ethernet
- 12-24 VDC switching power supply or the optional **C-more** AC Power Adapter, p/n EA-AC
- Personal Computer - to run **C-more** programming software
- PLC communications cable (serial or Ethernet) to connect the **C-more** HMI to your controller

Part Number	Description	Price
EA9-T6CL-R	<i>C-more</i> EA9 series touch screen HMI, 6in color TFT LCD, 320 x 240 pixel, QVGA, LED backlight, supports (1) serial and (2) USB ports and (1) memory card slot.	\$534.00
EA9-T6CL	<i>C-more</i> EA9 series touch screen HMI, 6in color TFT LCD, 320 x 240 pixel, QVGA, LED backlight, supports (3) serial, (1) Ethernet and (2) USB ports, (1) memory card slot and (1) audio line out.	\$748.00
EA9-T7CL-R	<i>C-more</i> EA9 series touch screen HMI, 7in color TFT LCD, widescreen, 800 x 480 pixel, WVGA, LED backlight, supports (1) serial, (1) Ethernet and (2) USB ports and (1) memory card slot.	\$499.00
EA9-T7CL	<i>C-more</i> EA9 series touch screen HMI, 7in color TFT LCD, widescreen, 800 x 480 pixel, WVGA, LED backlight, supports (3) serial, (1) Ethernet and (2) USB ports, (1) memory card slot and (1) audio line out.	\$578.00
EA9-T8CL	<i>C-more</i> EA9 series touch screen HMI, 8in color TFT LCD, 800 x 600 pixel, SVGA, LED backlight, supports (3) serial, (1) Ethernet and (2) USB ports, (1) memory card slot and (1) audio line out.	\$1,069.00
EA9-T10CL	<i>C-more</i> EA9 series touch screen HMI, 10in color TFT LCD, 800 x 600 pixel, SVGA, LED backlight, supports (3) serial, (1) Ethernet and (2) USB ports, (1) memory card slot and (1) audio line out.	\$1,380.00
EA9-T10WCL	<i>C-more</i> EA9 series touch screen HMI, 10in color TFT LCD, widescreen, 1024 x 600 pixel, WSVGA, LED backlight, supports (3) serial, (1) Ethernet and (2) USB ports, (1) memory card slot and (1) audio line out.	\$733.00
EA9-T12CL	<i>C-more</i> EA9 series touch screen HMI, 12in color TFT LCD, 800 x 600 pixel, SVGA, LED backlight, supports (3) serial, (1) Ethernet and (2) USB ports, (2) memory card slots, (1) HDMI video out and (1) audio line out.	\$1,917.00
EA9-T15CL-R	<i>C-more</i> EA9 series touch screen HMI, 15in color TFT LCD, 1024 x 768 pixel, XGA, LED backlight, supports (1) serial, (1) Ethernet and (2) USB ports and (2) memory card slots.	\$1,391.00
EA9-T15CL	<i>C-more</i> EA9 series touch screen HMI, 15in color TFT LCD, 1024 x 768 pixel, XGA, LED backlight, supports (3) serial, (1) Ethernet and (2) USB ports, (2) memory card slots, (1) HDMI video out and (1) audio line out.	\$2,140.00
EA9-RHMI	<i>C-more</i> EA9 series headless HMI, supports (2) serial, (1) Ethernet, (2) USB ports and (1) HDMI audio/video out and (1) memory card slot.	\$409.00
EA9-PGMSW	<i>C-more</i> Windows programming software, CD or free download. For use with <i>C-more</i> EA9 series touch panels. Requires USB or Ethernet connection to touch panel.	\$11.00 on CD, or FREE download
USB-CBL-AB3	Programming cable, USB A to USB B, 3ft cable length. For use with <i>C-more</i> HMIs, Do-more and Productivity series CPUs and most USB devices.	\$8.50
USB-CBL-AB6	Programming cable, USB A to USB B, 6ft cable length. For use with <i>C-more</i> HMIs, Do-more and Productivity series CPUs and most USB devices.	\$11.00
USB-CBL-AB10	Programming cable, USB A to USB B, 10ft cable length. For use with <i>C-more</i> HMIs, Do-more and Productivity series CPUs and most USB devices.	\$25.50
USB-CBL-AB15	Programming cable, USB A to USB B, 15ft cable length. For use with <i>C-more</i> HMIs, Do-more and Productivity series CPUs and most USB devices.	\$29.00

C-more Selection Guide & Specifications

Specification	Model	6" TFT color w/ base features	6" TFT color w/ full features	7" TFT color w/ base features	7" TFT color w/ full features
Part Number		EA9-T6CL-R	EA9-T6CL	EA9-T7CL-R	EA9-T7CL
Price		\$534.00	\$748.00	\$499.00	\$578.00
Display Actual Size and Type		5.7" TFT color		7.0" TFT color	
Display Viewing Area		4.54" x 3.40" [115.2 mm x 86.4 mm]		6.00" x 3.60" [152.4 mm x 91.4 mm]	
Weight		1.56 lb [710g]	1.59 lb [720g]	1.46 lb [660g]	1.48 lb [670g]
Screen Pixel		320 x 240 (QVGA)		800 x 480 (WVGA)	
Display Brightness		280 nits (typ)		350 nits (typ)	
LCD Panel Dot Pitch		0.18 mm x 0.18 mm		0.190 mm x 0.190 mm	
Color Scale		65,536 colors			
Backlight Average Lifetime*		50,000 hours @ 25°C			
Touch Panel Type**		Four-wire analog resistive, single touch			
Project Memory		26MB			
Number of Screens		Up to 999 screens – limited by project memory			
Realtime Clock		Realtime clock built into panel, backed up for 30 days at 25°C			
Calendar – Month / Day / Year		Yes - monthly deviation 60sec (Reference)			
Serial Port 1		15-pin D-sub female – RS232C, RS-422/485			
Serial Port 2		N/A	3-wire terminal block – RS-485	N/A	3-wire terminal block – RS-485
Serial Port 3		N/A	RJ-12 modular jack – RS-232C	N/A	RJ-12 modular jack – RS-232C
USB Port – Type B		USB 2.0 High speed (480 Mbps) Type B – Download/Program – Max. cable length 15-feet			
USB Port – Type A		USB 2.0 High speed (480 Mbps) Type A – for USB device options – Max. cable length 15-feet – Bus Power – Less than 200mA at 5VDC			
Ethernet Port		N/A	10/100 Base-T, auto MDI/MDI-X		
Ethernet Port - Expansion Module		N/A	EA-ECOM	N/A	EA-ECOM
Audio Line Out		N/A	3.5 mm mini jack – requires amplifier and speaker(s)	N/A	3.5 mm mini jack – requires amplifier and speaker(s)
Mic In (Future)		N/A	3.5 mm mini jack	N/A	3.5 mm mini jack
SD Card Slot		1 slot supports max 2GB (SD,) max 32GB (SDHC)			
HDMI Video Out		N/A			
HDMI Supported Resolution		N/A			
Supply Power		10.2-26.4 VDC Class 2 or SELV (Safety Extra-Low Voltage) Circuit or Limited Energy Circuit (LEC), or use the AC/DC Power Adapter, EA-AC, to power the touch panel from a 100-240 VAC, 50/60 Hz power source. Reverse Polarity Protected			
Power Consumption		16.0 W 1.30 A @ 12VDC 0.66 A @ 24VDC			
Internal Fuse (non-replaceable)		4.0 A			
Altitude		Up to 2000m (6562ft)			
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)			
Environment		For use in Pollution Degree 2 environment, no corrosive gases permitted			
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			
Withstand Voltage		1000VAC, 1min. (FG to Power supply)			
Insulation Resistance		> 10M ohm @ 500VDC (FG to Power supply)			
Vibration		IEC60068-2-6 (Test Fc)			
Shock		IEC60068-2-27 (Test Ea)			
Emission		EN55011 Class A (Radiated RF emission)			
Enclosure		NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only IP-65 indoor use only (When mounted correctly)		NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only IP-65 (not tested by UL) (When mounted correctly)	
Agency Approvals		UL508, E157382, Class 1, Div 2, Groups A, B, C CE (EN61131-2), RoHS (2011/65/EU) CUL Canadian C22.2		UL61010, E157382 CE (EN61131-2), RoHS (2011/65/EU) CUL Canadian C22.2	

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

**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 7" TFT Color Touch Panel - Full Model

EA9-T7CL

C-more EA9 series touch screen interface panel, 7-inch color TFT (7.0 inch viewable screen), 64K colors, 800 x 480 pixel WVGA screen resolution, 800MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only)(not tested by UL), non-replaceable LED backlight. Includes (3) serial ports, USB 2.0 Type A and B ports and Ethernet port; supports SD memory card. Compatible with EA9-PGMSW programming software version 6.3 or later.



\$578.00

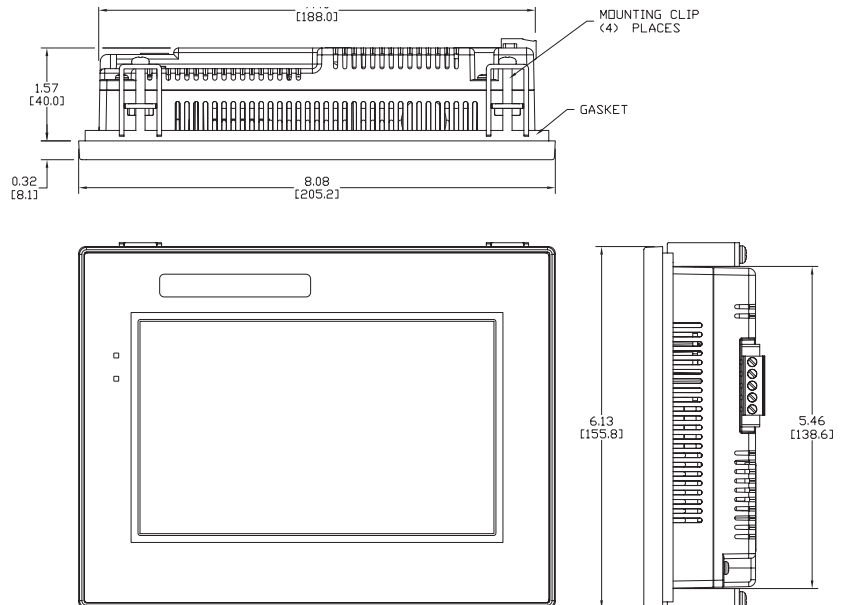
Features

- 7.0" diagonal color TFT (Thin Film Transistor) LCD display with 64K colors
- 800 x 480 pixel resolution
- 350 NITS display brightness
- 50,000 hour average backlight half-life
- Analog resistive (1024 X 1024) touch screen allowing unlimited touch areas
- USB port B (program/download) and USB port A (USB device options)
- Ethernet 10/100 Base-T port (program/download & PLC communication)
- Expansion Module Support
- Use EA-ECOM for second Ethernet Port
- Remote Internet access
- Serial PLC interface (RS-232/422/485)
- One built-in SD memory card slot
- 12-24 VDC powered, 110VAC power adapter (optional)
- Audio Line Out, stereo - requires amplifier and speaker(s)
- 26MB project memory
- Data logging
- 0 to 50°C [32 to 122°F] operating temperature range
- NEMA 4/4X, IP65(not tested by UL) when mounted correctly, indoor use only
- Slim design saves panel space
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase



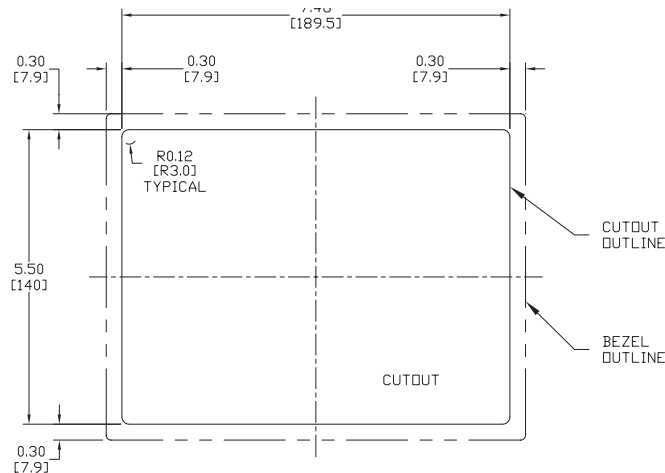
Function	Available
Ethernet	Yes
USB	Yes
SD Card	Yes
Audio Out	Yes
HDMI Video Out	No
Expansion Module	Yes

Dimensions inches [mm]

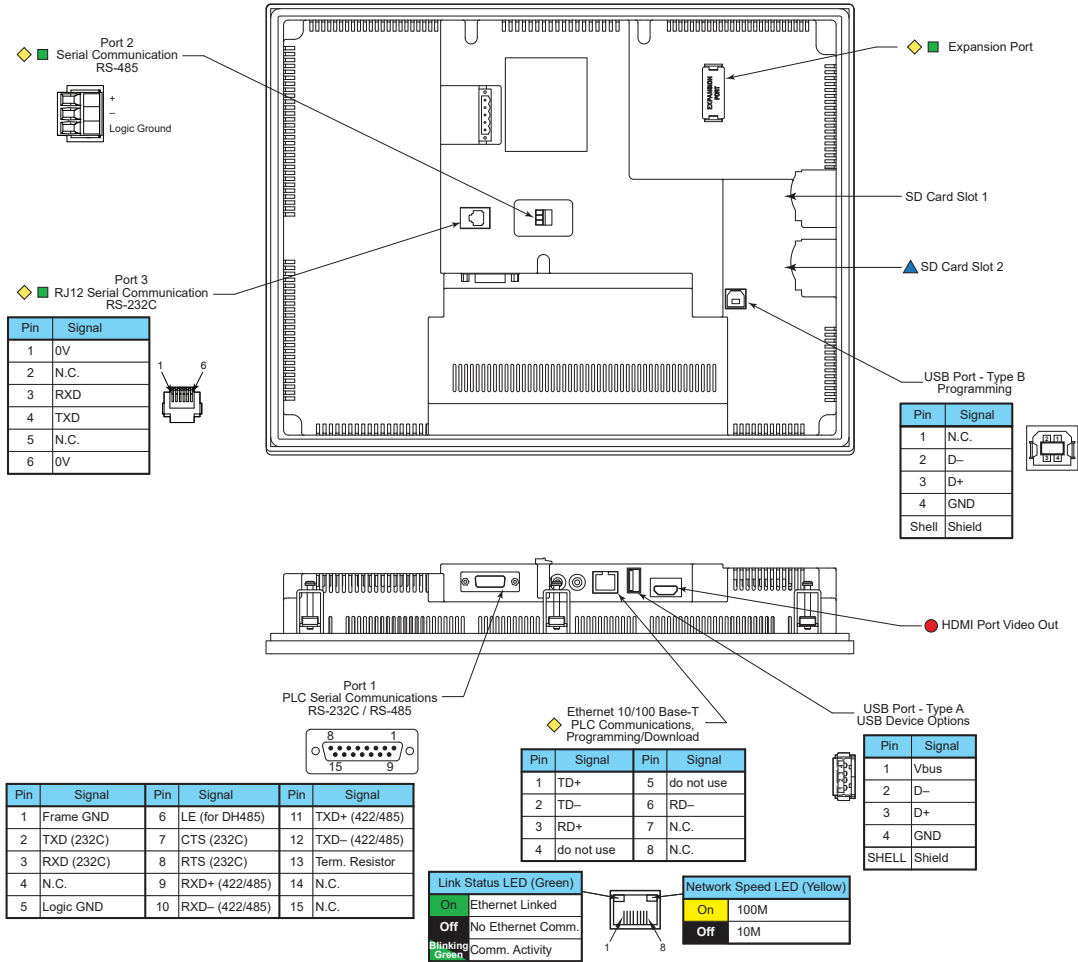


See our website www.AutomationDirect.com for complete engineering drawings.

Mounting Cutout



C-more Communication Ports



- ◆ Note: Device is not available on Base Feature touch panel EA9-T6CL-R
- Note: Device is not available on Base Feature touch panels EA9-T7CL-R and EA9-T15CL-R
- Note: Device is only available on touch panels EA9-T12CL and EA9-T15CL.
- ▲ Note: Device is only available on touch panels EA9-T12CL, EA9-T15CL and EA9-T15CL-R.

Ethernet Port

The Ethernet port has several uses:

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

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

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

Note: EA6-T6CL-R does not include an Ethernet port, and does not have these capabilities.

Expansion Port

The expansion port supports the EA-ECOM module to provide a second Ethernet Port for all full featured models.

USB Port B

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

USB Port A

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

- USB flash drives (USB-FLASH)
- USB keyboards
- USB barcode scanners
- USB card scanners

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

Sound Interface (Audio Line Out)

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

Serial Port

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

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

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

HDMI Video Out

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

C-more Communication Protocols & Cables

Compatibility Table			
PLC Family	Model	Protocols	
Allen-Bradley	MicroLogix 1000, 1100, 1200, 1400, 1500, SLC 5-01/02/03	DH485/AIC/AIC+	
	MicroLogix 1000, 1100, 1200, 1400 and 1500 SLC 5-03/04/05	DF1 Half Duplex; DF1 Full Duplex	
	ControlLogix™, CompactLogix™, FlexLogix™	DF1 Full Duplex	
	PLC-5	DF1 Full Duplex	
	ControlLogix, CompactLogix, FlexLogix - Tag Based	DF1 Half Duplex; DF1 Full Duplex	
	ControlLogix, CompactLogix, FlexLogix - Generic I/O Messaging	EtherNet/IP Server	
	ControlLogix, CompactLogix, FlexLogix - Tag Based	EtherNet/IP Client	
	Micrologix 1100, 1400 & SLC5/05, all via native Ethernet port	EtherNet/IP Client	
	MicroLogix 1000, 1100, 1200, 1400, 1500 & SLC 5-03/04/05, all via ENI Adapter	Modbus RTU	
	Micro 800 series	Modbus TCP	
Modbus RTU	Modbus RTU devices	Modbus RTU	
	Modbus TCP/IP devices	Modbus TCP/IP	
Modbus TCP/IP	90/30, 90/70, Micro 90, VersaMax Micro	SNPX	
	90/30, Rx3i	SRTP Ethernet	
GE	FX Series	FX Direct	
	Q02, Q02H, Q06H, Q12H, Q25H	Q CPU	
	Q, QnA Serial	QnA Serial	
Mitsubishi	Q, QnA Ethernet	QnA Ethernet	
	C200 Adapter, C500	Host Link	
Omron	CJ1/CS1 Serial, CJ1/CS1 Ethernet	FINS	
	984 CPU, Quantum 113 CPU, AEG Modicon Micro Series 110 CPU: 311-xx, 411-xx, 512-xx, 612-xx	Modbus RTU	
Modicon	S7-200 CPU, RS-485 Serial	PPI	
Siemens	S7-200 CPU, S7-300 CPU, S7-400, S7-1200 CPU, S7-1500; Ethernet	Ethernet ISO over TCP	
	all	AutomationDirect P3000 Serial	
Productivity Series	all	AutomationDirect P3000 Ethernet	
Do-more	all	Do-more Serial	
CLICK	all	Do-more Ethernet	
	all	AutomationDirect Modbus (CLICK)	
DirectLOGIC	DL05/DL06	all	K-Sequence
		H0-ECOM/H0-ECOM100	Direct NET
	DL105	all	Modbus (Koyo addressing)
			DirectLOGIC Ethernet
	DL205	D2-230	K-Sequence
		D2-240	K-Sequence
			Direct NET
		D2-250/D2-250-1/D2-260/D2-262	K-Sequence
			Direct NET
			Modbus (Koyo addressing)
	DL305	D2-240/D2-250-1/D2-260 using D2-DCM	Direct NET
		H2-ECOM/H2-ECOM100	Modbus (Koyo addressing)
			DirectLOGIC Ethernet
		D3-330/330P (Requires the use of a Data Communications Unit)	Direct NET
	DL405	D3-340	Direct NET
		D3-350	K-Sequence
			Direct NET
			Modbus (Koyo addressing)
	DL405	D3-350 using D3-DCM	Direct NET
			Modbus (Koyo addressing)
D4-430		K-Sequence	
D4-440		K-Sequence	
		Direct NET	
D4-450/D4-454		K-Sequence	
DL405		Direct NET	
		Modbus (Koyo addressing)	
	All with D4-DCM	Direct NET	
	H4-ECOM/H4-ECOM100	Modbus (Koyo addressing)	
H2-WinPLC (Think & Do) Live V5.2 or later and Studio any version	DirectLOGIC Ethernet		
H2-WinPLC (Think & Do) Live V5.5.1 or later and Studio V7.2.1 or later	Think & Do Modbus RTU (serial port)		
	Think & Do Modbus TCP/IP (Ethernet port)		

Cable Description	Cable Part Number	Price
Communication cable, 15-pin male D-sub to 6-pin RJ12, shielded, 9.8ft/3m cable length. For use with C-more or C-more Micro panel and AutomationDirect PLCs with RJ12 ports.	EA-2CBL	\$21.50
Communication cable, 15-pin male D-sub to 15-pin D-sub HD15 male, shielded, 3m/9.8ft cable length. For use with C-more or C-more Micro panel and a DL06, D2-250(-1), D2-260 or D2-262 (bottom port) CPU.	EA-2CBL-1	\$22.00
Communication cable, 15-pin male D-sub to 4-pin RJ11, shielded, 3m/9.8ft cable length. For use with C-more or C-more Micro panel and a D3-340 CPU top or bottom port.	EA-3CBL	\$21.50
Communication cable, 15-pin male D-sub to 15-pin male D-sub, shielded, 3m/9.8ft cable length. For use with C-more or C-more Micro panel and a DL405 (top port) CPU.	EA-4CBL-1	\$21.50
Communication cable, 15-pin male D-sub to 25-pin male D-sub, shielded, 3m/9.8ft cable length. For use with C-more or C-more Micro panel and a D2-DCM, D3-232-DCU, D3-350 (bottom port) or DL405 (bottom port) CPU.	EA-4CBL-2	\$22.50
Communication cable, 15-pin male D-sub to 8-pin male mini DIN, shielded, 3m/9.8ft cable length. For use with C-more or C-more Micro panel and an Allen-Bradley Micrologix CPU.	EA-MLOGIX-CBL	\$33.00
Communication cable, 15-pin male D-sub to 9-pin female D-sub, shielded, 3m/9.8ft cable length. For use with C-more or C-more Micro panel and an Allen-Bradley SLC 5/03, 5/04 or 5/05 CPU with DF-1 port.	EA-SLC-232-CBL	\$21.50
Communication cable, 15-pin male D-sub to 25-pin male D-sub, 3m/9.8ft cable length. For use with C-more or C-more Micro panel and an Allen-Bradley PLC-5 CPU with a DF-1 port.	EA-PLC5-232-CBL	\$21.50
Communication cable, 15-pin male D-sub to 6-pin RJ45, shielded, 3m/9.8ft cable length. For use with C-more or C-more Micro panel and an Allen-Bradley SLC 5/01, 5/02 or 5/03 CPU with a DH485 port cable.	EA-DH485-CBL	\$21.00
Communication cable, 15-pin male D-sub to 15-pin male D-sub, shielded, 3m/9.8ft cable length. For use with C-more or C-more Micro and GE Fanuc Series 90/30 or 90/70 serial port.	EA-90-30-CBL	\$21.50
Communication cable, 15-pin male D-sub to 25-pin male D-sub, 3m/9.8ft cable length. For use with C-more or C-more Micro panel and a Mitsubishi FX Series CPU.	EA-MITSU-CBL	\$21.50
Communication cable, 15-pin male D-sub to 8-pin male mini DIN, shielded, 3m/9.8ft cable length. For use with C-more or C-more Micro panel and a Mitsubishi FX Series CPU.	EA-MITSU-CBL-1	\$21.50
Communication cable, 15-pin male D-sub to 25-pin male D-sub, shielded, 3m/9.8ft cable length. For use with C-more or C-more Micro panel and an Omron C200 or C500 CPU.	EA-OMRON-CBL	\$21.50

Example Cables:

EA-2CBL



EA-2CBL-1



C-more Computer Programming Connections

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

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

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

- USB or Ethernet connection to HMI (cables sold separately).
- Windows operating system - see automationdirect.com for specific operating system requirements.

USB Programming Cable



Part No. USB-CBL-ABxx

USB Programming Cables		
Part Number	Length	Price
USB-CBL-AB3	3 feet	\$8.50
USB-CBL-AB6	6 feet	\$11.00
USB-CBL-AB10	10 feet	\$25.50
USB-CBL-AB15	15 feet	\$29.00

Stride® Ethernet Switch



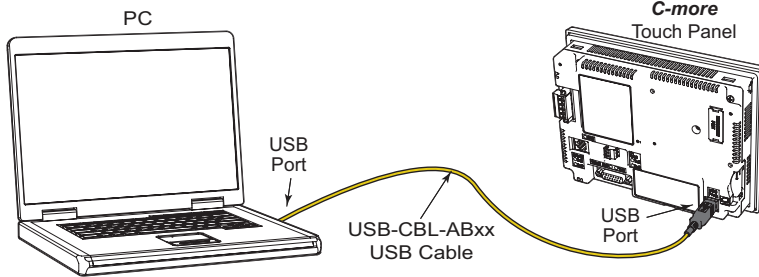
Message in from a device

Message is sent out only from the port connected to destination device

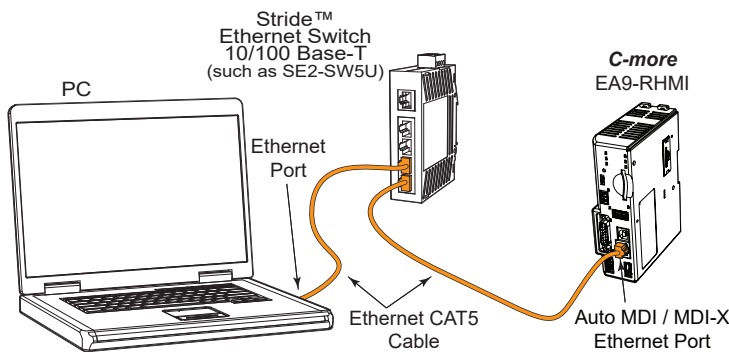
Part No. SE2-SW5U

\$78.00

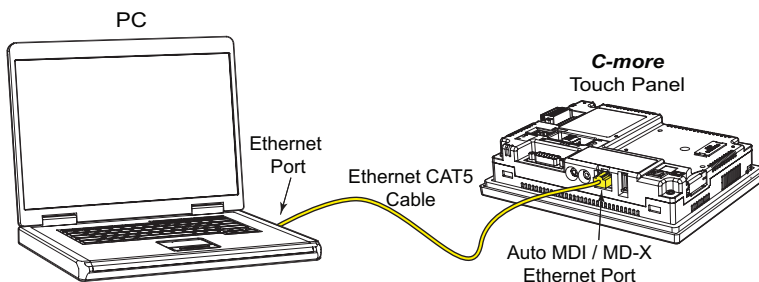
USB Connectivity



Ethernet Connectivity via a Hub or Switch



Ethernet Direct Connection



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

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

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

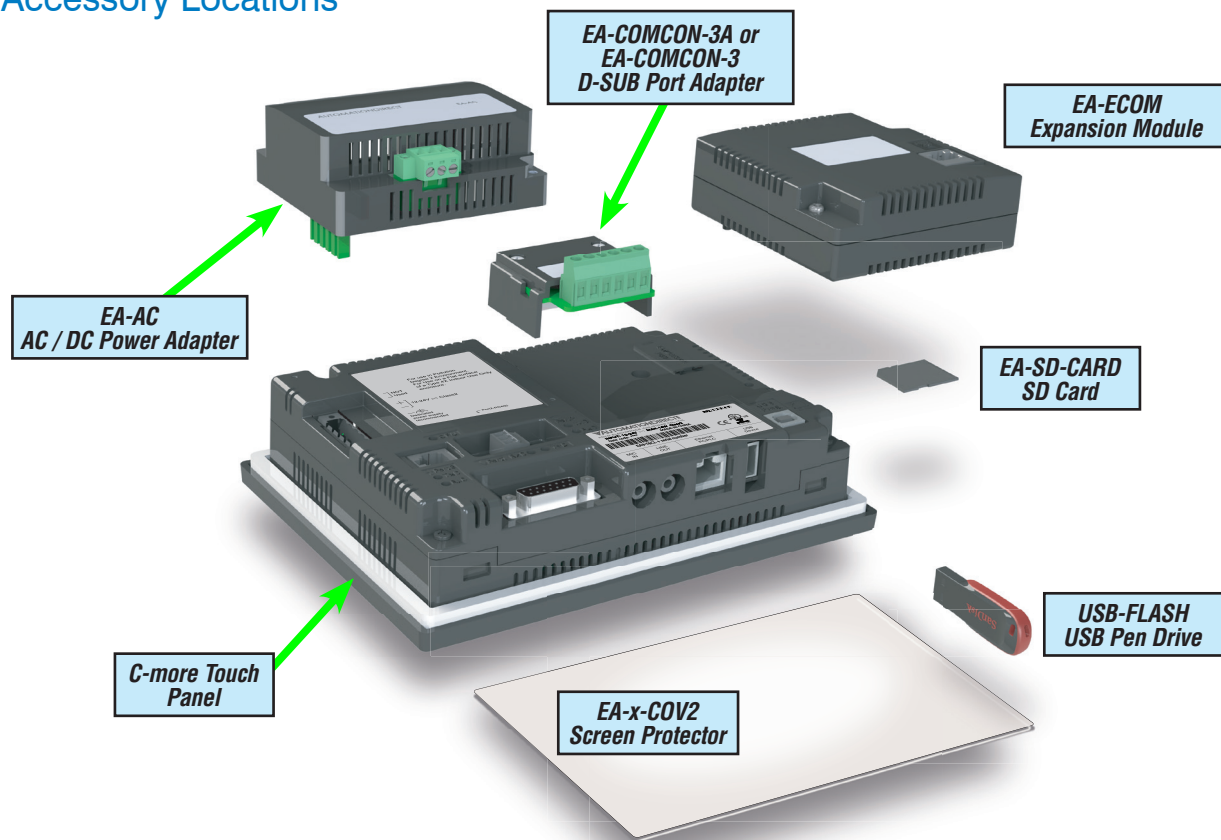
C-more Accessories

Accessories

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

Part Number	Description	Price
EA-AC	AC/DC power adapter, 24 VDC. For use with <i>C-more</i> EA7 and EA9 series touch panels.	\$80.00
EA-6-COV2	Screen protector, non-glare, 6in. Package of 3. For use with <i>C-more</i> and <i>C-more</i> Micro 6in panels.	\$40.50
EA-7-COV2	Screen protector, non-glare, 7in. Package of 3. For use with <i>C-more</i> 7in panels.	\$42.00
EA-8-COV2	Screen protector, non-glare, 8in. Package of 3. For use with <i>C-more</i> and <i>C-more</i> Micro 8in panels.	\$43.50
EA-10-COV2	Screen protector, non-glare, 10in. Package of 3. For use with <i>C-more</i> EA9-T10CL and <i>C-more</i> Micro EA3-T10CL HMIs.	\$49.00
EA-10W-COV2	Screen protector, non-glare, 10in. Package of 3. For use with <i>C-more</i> EA9-T10WCL widescreen HMI.	\$49.00
EA-12-COV2	Screen protector, non-glare, 12in. Package of 3. For use with <i>C-more</i> 12in panels.	\$50.00
EA-15-COV2	Screen protector, non-glare, 15in. Package of 3. For use with <i>C-more</i> 15in panels.	\$59.00
EA-ECOM	Communication expansion module, (1) RJ45 10/100 Mbps Ethernet port. For use with <i>C-more</i> Micro EA3 series 6in, 8in and 10in panels and all <i>C-more</i> HMIs except -R models.	\$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 <i>C-more</i> Micro EA1 series 4in and 6in HMIs, <i>C-more</i> Micro EA3 series 3in, 4in, and 6in HMIs, <i>C-more</i> EA9 6in and 7in HMIs.	\$45.50
EA-COMCON-3A	DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, straight cable entry. For use with <i>C-more</i> Micro EA1 series 3in with EA1-MG-SP1, <i>C-more</i> Micro EA3 series 8in and 10in HMIs, <i>C-more</i> EA9 8in, 10in, 12in and 15in HMIs.	\$21.00
EA-SD-CARD	SD memory card, 2GB, industrial.	\$106.00
USB-FLASH	SanDisk USB Flash drive, 32GB.	\$21.50

Accessory Locations



C-more Accessories

AC/DC Power Adapter

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

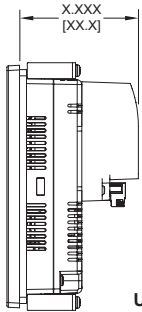
The adapter provides a power loss signal to the touch panel that causes the touch panel to stop writing data to SD memory devices providing a controlled shutdown for increased data logging reliability. EA-AC is not compatible with EA9-RHMI.

Part No. EA-AC \$80.00

Dimensions inches [mm]

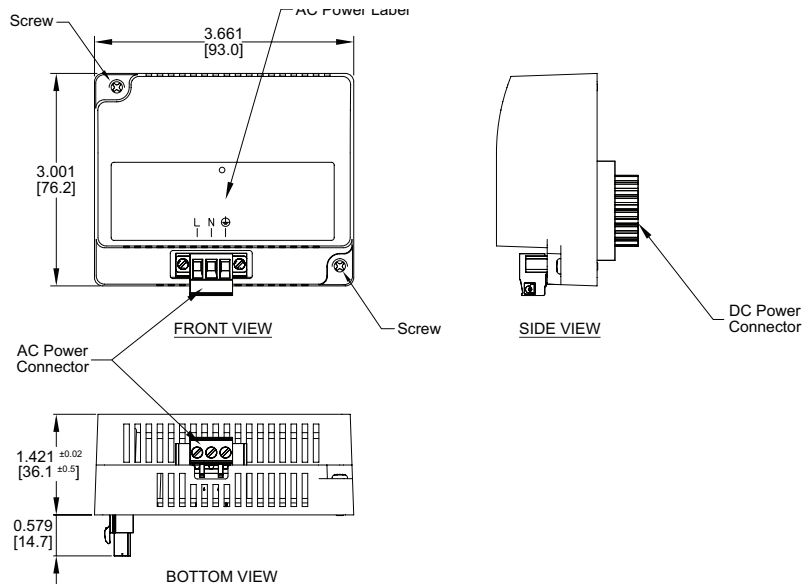


Overall Panel Depth w/ EA-AC Installed



- EA9-T6CL-R = 2.99 [75.9]
- EA9-T6CL = 2.99 [75.9]
- EA9-T7CL-R = 2.99 [75.9]
- EA9-T7CL = 2.99 [75.9]
- EA9-T8CL = 3.51 [89.2]
- EA9-T10CL = 3.51 [89.2]
- EA9-T10WCL = 3.51 [89.2]
- EA9-T12CL = 3.35 [85.1]
- EA9-T15CL-R = 3.35 [85.1]
- EA9-T15CL = 3.35 [85.1]

Units: inches[mm]

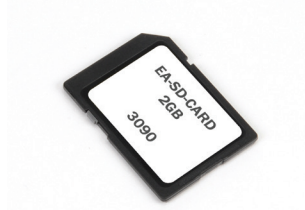


AC/DC Power Adapter Specifications			
Part Number	EA-AC	Short Circuit Protection	85VAC: 2.6 A, 100VAC: 2.8 A, 264VAC: 3.9 A
Input Voltage & Frequency	100-240 VAC +10% -15%; 50/60 Hertz	Static Electricity Discharge Resistance	Compliant with IEC61000-4-2, Contact: 4 kV, Air: 8 kV
Wire	24-14 AWG, 60 / 75°C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

C-more Accessories

SD Card

EA-SD-CARD



\$106.00

SD memory card for non-volatile storage, 2GB industrial grade. 85° C maximum operating temperature makes it suitable for data logging in industrial applications. Recommended for *C-more* EA9 series. The EA-SD-CARD utilizes SLC technology so it is the fastest option for writing and storing data. If logged data is saved to external memory, AutomationDirect recommends using an EA-SD-CARD.

SLC Flash memory utilized by EA-SD-CARD has the advantage of being the most accurate flash memory type when reading and writing data. SLC Flash has the longest lifespan of flash types and can operate in a broader temperature range than other types.

EA-SD-CARD with SLC Flash memory is recommended for industrial workloads that require heavy read / write cycles.

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

USB Flash Drive

USB-FLASH



\$21.50

USB flash drive for non-volatile storage, 32GB. Recommended for the *C-more* EA9 series touch panels.

C-more Accessories

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

The EA-COMCON-3 adapter plugs into the 15-pin serial port on the rear of a panel to allow wire terminal connections for an RS-422/RS-485 communication cable. Compatible with all *C-more* EA7 series panels, EA9-T6CL(-R) panels, EA9-T7CL(-R) panels and *C-more* Micro 4" and 6" panels. UL Recognized

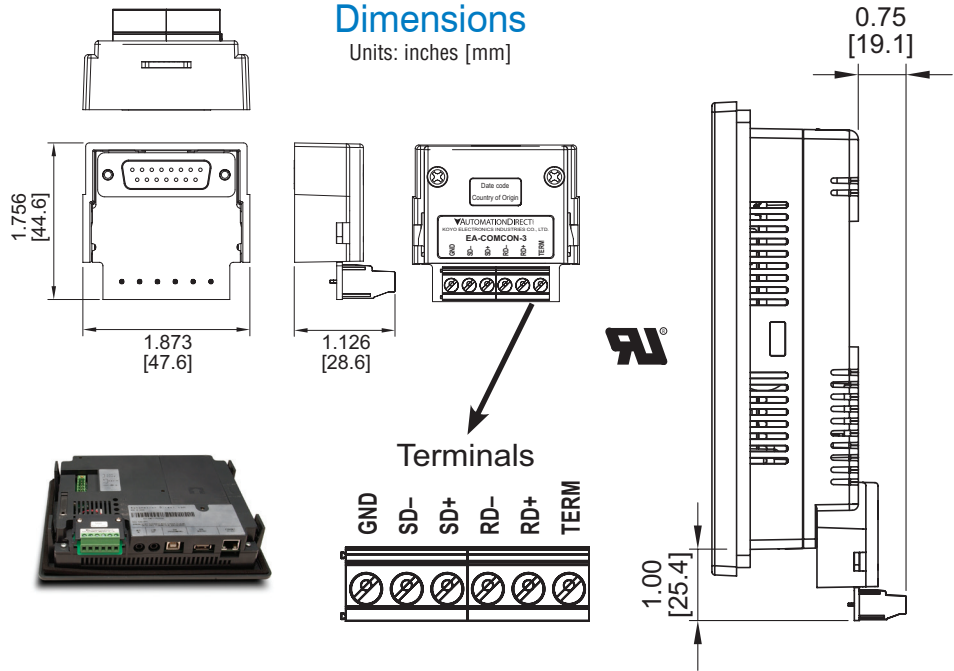
Part No.
EA-COMCON-3



\$45.50

Dimensions

Units: inches [mm]



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

The EA-COMCON-3A adapter plugs into the 15-pin serial port on the rear of a panel to allow wire terminal connections for an RS-422/RS-485 communication cable. Compatible with *C-more* EA9 series panels, EA9-RHMI, *C-more* Micro EA3-T8CL and EA3-T10CL panels and EA1-S3x with EA1-MG-SP1. Not compatible with EA9-T6CL(-R) and EA9-T7CL(-R) panels.

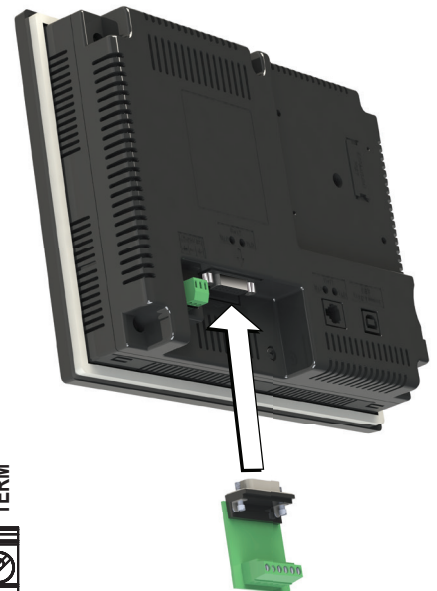
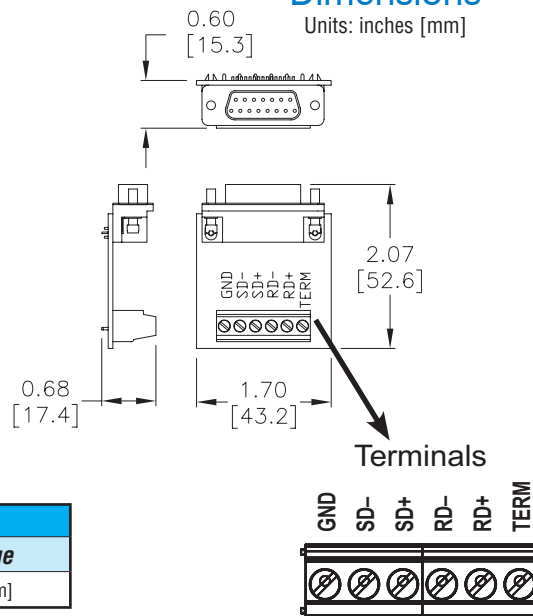
Part No.
EA-COMCON-3A



\$21.00

Dimensions

Units: inches [mm]



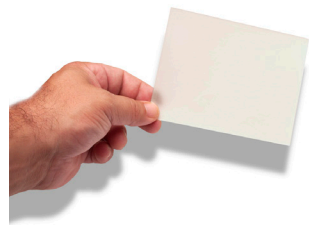
EA-COMCON-3(A) Wiring Specs	
Wire Size	Screw Torque
14-24 AWG	4.4 lb-in [0.5 Nm]

C-more Accessories

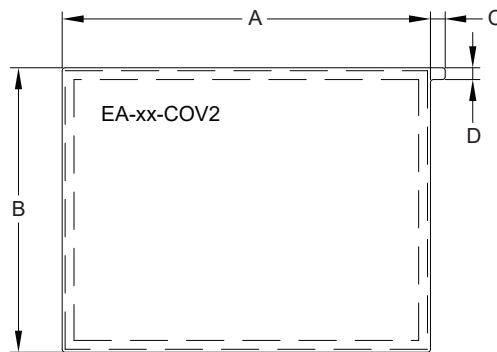
Non-glare Screen Covers (in packages of 3)

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

Part Numbers: EA-6-COV2, EA-7-COV2, EA-8-COV2, EA-10-COV2, EA-10W-COV2, EA-12-COV2 and EA-15-COV2



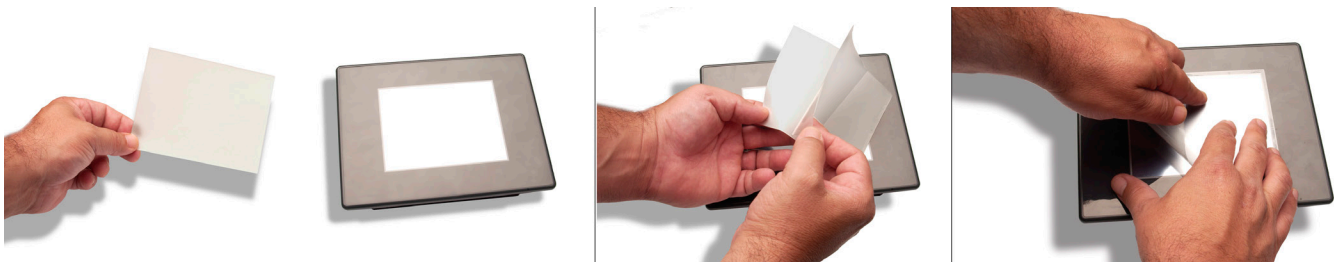
Dimensions inches [mm]



EA-6-COV2	\$40.50
EA-7-COV2	\$42.00
EA-8-COV2	\$43.50
EA-10-COV2	\$49.00
EA-10W-COV2	\$49.00
EA-12-COV2	\$50.00
EA-15-COV2	\$59.00

Non-glare Screen Covers Dimensions - inches [mm]				
Part Number	A	B	C	D
EA-6-COV2	4.91 [124.8]	3.80 [96.4]	0.197 [5.0]	0.157 [4.0]
EA-7-COV2	6.40 [162.6]	4.00 [101.5]		
EA-8-COV2	7.32 [185.8]	5.44 [138.2]		
EA-10-COV2	8.91 [226.2]	6.61 [168.0]		
EA-10W-COV2	9.23 [234.5]	5.38 [136.7]		
EA-12-COV2	10.26 [260.6]	7.64 [194.1]		
EA-15-COV2	12.56 [319.1]	9.37 [238.1]		

Installation



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

Communication Expansion Module

EA-ECOM Ethernet Communication Module

The EA-ECOM communication module is compatible with EA3 series **C-more** Micro 6-inch, 8-inch and 10-inch panels and most **C-more** panels. It adds an Ethernet (RJ45) port for programming and PLC communications at 10/100 Mbps. **C-more** Micro Software and firmware version 4.0 or later is required. **C-more** Software and firmware version 6.50 or later is required.

Part No. EA-ECOM

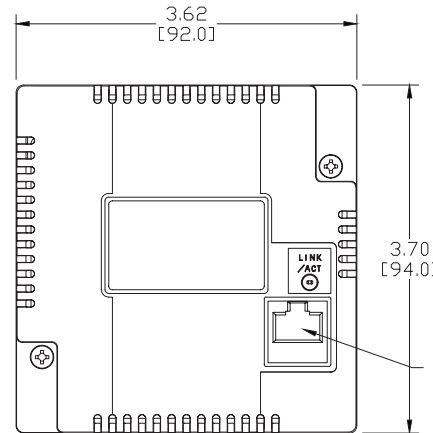
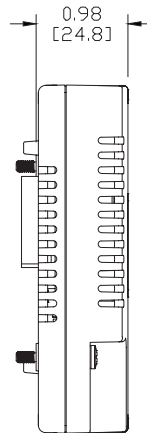
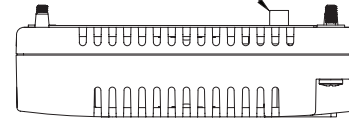


\$54.00

Dimensions

Units: inches [mm]

PANEL CONNECTION



ETHERNET

Ethernet Communication Interface Specifications

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

Communication Drivers

C-more	C-more Micro
Supports all C-more Ethernet drivers	AutomationDirect Productivity Series Ethernet
	AutomationDirect Do-more / BRX Ethernet
	AutomationDirect CLICK Ethernet
	AutomationDirect ECOM Ethernet
	Modbus TCP/IP
	Allen-Bradley EtherNet/IP (Client) SLC5/05
	Allen-Bradley EtherNet/IP (Client) ENI Adapter
	Allen-Bradley EtherNet/IP (Client) MicroLogix 1100/1400
	Allen-Bradley EtherNet/IP (Client) control/CompactLogix (SLC Mapping only)



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




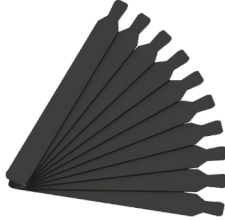




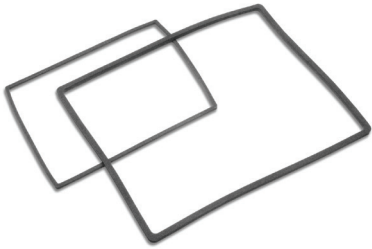
EA-ECOM Specifications

Part Number	EA-ECOM
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 RFI, (145 MHz, 440 MHz 10 W @ 10 cm) Impulse 1000 V @ 1 µs pulse
Emission	EN55011 Class A (Radiated RF emission)
Enclosure (panel door installation)	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 To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page
Mounting Torque	50 oz-in [0.35 N-m]
Weight	0.23 lb [105g]

C-more Replacement Parts

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

Replacement parts at a glance:

Part Number	Price		Description
EA9-BRK	\$28.50		Panel mounting brackets, replacement. Package of 8. For use with <i>C-more</i> EA9 series touch panels.
EA9-LBL	\$25.50		Blank label insert, replacement. Package of 10. For use with <i>C-more</i> EA9 series touch screen front bezel.
EA9-3TB	\$9.75		Pluggable terminal block, replacement, 3-pole. Package of 2. For use with 3-wire RS485 communications port on <i>C-more</i> EA9 series panels.
CO-4TB	\$7.75		CLICK terminal blocks, replacement, 4-pole. Package of 2. For use with CLICK PLCs. and <i>C-more</i> EA9-RHMI.
EA-DC-CON	\$15.50		DC 5-terminal power connector, replacement. For use with <i>C-more</i> EA7 and EA9 series touch panels.
EA-AC-CON	\$8.25		AC 3-terminal power connector, replacement. For use with <i>C-more</i> AC adapter (p/n EA-AC).
EA9-15-GSK	\$26.50		Panel mounting gasket, replacement. For use with <i>C-more</i> EA9 series 15in HMIs.
EA9-12-GSK	\$21.50		Panel mounting gasket, replacement. For use with <i>C-more</i> EA9-T12CL 12in touch panel.
EA9-10W-GSK	\$20.50		Panel mounting gasket, replacement. For use with <i>C-more</i> EA9-T10WCL 10in HMI.
EA9-10-GSK	\$20.50		Panel mounting gasket, replacement. For use with <i>C-more</i> EA9-T10CL 10in HMI.
EA9-8-GSK	\$18.50		Panel mounting gasket, replacement. For use with <i>C-more</i> EA9-T8CL 8in touch panel.
EA9-6-GSK	\$16.50		Panel mounting gasket, replacement. For use with <i>C-more</i> EA9 series 6in and 7in touch panels.