

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	C-more EA9 series touch screen HMI, 6in color TFT LCD, analog resistive, 320 x 240 pixel, QVGA, LED backlight, (1) serial, (2) USB ports and (1) memory card slot.	\$799.00
EA9-T6CL	C-more EA9 series touch screen HMI, 6in color TFT LCD, analog resistive, 320 x 240 pixel, QVGA, LED backlight, (3) serial, (1) Ethernet, (2) USB ports, (1) memory card slot and (1) audio line out.	\$1,003.00
EA9-T7CL-R	C-more EA9 series touch screen HMI, 7in color TFT LCD, analog resistive, widescreen, 800 x 480 pixel, WVGA, LED backlight, (1) serial, (1) Ethernet, (2) USB ports and (1) memory card slot.	\$688.00
EA9-T7CL	C-more EA9 series touch screen HMI, 7in color TFT LCD, analog resistive, widescreen, 800 x 480 pixel, WVGA, LED backlight, (3) serial, (1) Ethernet, (2) USB ports, (1) memory card slot and (1) audio line out.	Retired
EA9-T8CL	C-more EA9 series touch screen HMI, 8in color TFT LCD, analog resistive, 800 x 600 pixel, SVGA, LED backlight, (3) serial, (1) Ethernet, (2) USB ports, (1) memory card slot and (1) audio line out.	\$1,524.00
EA9-T10CL	C-more EA9 series touch screen HMI, 10in color TFT LCD, analog resistive, 800 x 600 pixel, SVGA, LED backlight, (3) serial, (1) Ethernet, (2) USB ports, (1) memory card slot and (1) audio line out.	\$1,718.00
EA9-T10WCL	C-more EA9 series touch screen HMI, 10in color TFT LCD, analog resistive, widescreen, 1024 x 600 pixel, WSVGA, LED backlight, (3) serial, (1) Ethernet, (2) USB ports, (1) memory card slot and (1) audio line out.	\$1,096.00
EA9-T12CL	C-more EA9 series touch screen HMI, 12in color TFT LCD, analog resistive, 800 x 600 pixel, SVGA, LED backlight, (3) serial, (1) Ethernet, (2) USB ports, (2) memory card slots, (1) HDMI video out and (1) audio line out.	\$1,479.00
EA9-T15CL-R	C-more EA9 series touch screen HMI, 15in color TFT LCD, analog resistive, 1024 x 768 pixel, XGA, LED backlight, (1) serial, (1) Ethernet, (2) USB ports and (2) memory card slots.	\$1,959.00
EA9-T15CL	C-more EA9 series touch screen HMI, 15in color TFT LCD, analog resistive, 1024 x 768 pixel, XGA, LED backlight, (3) serial, (1) Ethernet, (2) USB ports, (2) memory card slots, (1) HDMI video out and (1) audio line out.	\$2,684.00
EA9-RHMI	C-more EA9 series headless HMI, (2) serial, (1) Ethernet and (2) USB ports, (1) HDMI audio/video out and (1) memory card slot.	\$632.00
EA9-PGMSW	C-more Windows programming software, USB or free download. For use with C-more EA9 series touch panels. Requires USB or Ethernet connection to touch panel.	\$13.00 on USB, or FREE download
USB-CBL-AB3	AutomationDirect programming cable, USB A to USB B, 3ft cable length. For use with C-more HMIs, Do-more and Productivity series CPUs and most USB devices.	\$12.00
USB-CBL-AB6	AutomationDirect programming cable, USB A to USB B, 6ft cable length. For use with C-more HMIs, Do-more and Productivity series CPUs and most USB devices.	\$16.00
USB-CBL-AB10	AutomationDirect programming cable, USB A to USB B, 10ft cable length. For use with C-more HMIs, Do-more and Productivity series CPUs and most USB devices.	\$36.50
USB-CBL-AB15	AutomationDirect programming cable, USB A to USB B, 15ft cable length. For use with C-more HMIs, Do-more and Productivity series CPUs and most USB devices.	\$42.50

C-more Selection Guide & Specifications

Model	Specification	8" TFT color w/ full features	10" TFT color w/ full features	10" TFT color Widescreen w/ full features
	Part Number	EA9-T8CL	EA9-T10CL	EA9-T10WCL
	Price	\$1,524.00	\$1,718.00	\$1,096.00
	Display Actual Size and Type	8.4" TFT color	10.4" TFT color	10.1" TFT color
	Display Viewing Area	6.71" x 5.03" [170.4 mm x127.8mm]	8.31" x 6.24" [211.2 mm x 158.4 mm]	8.77" x 4.93" [222.7 mm x 125.3 mm]
	Weight	2.93 lb [1330g]	4.19 lb [1900g]	2.43 lb [1100g]
	Screen Pixel	800 x 600 (SVGA)		1024 x 600 (WSVGA)
	Display Brightness	310 nits (typ)	280 nits (typ)	240 nits (typ)
	LCD Panel Dot Pitch	0.213 mm x 0.213 mm	0.264 mm x 0.264 mm	0.218 mm x 0.209 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	43MB		
	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	3-wire terminal block – RS-485		
	Serial Port 3	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	10/100 Base-T, auto MDI/MDI-X		
	Ethernet Port - Expansion Module	EA-ECOM		
	Audio Line Out	3.5 mm mini jack – requires amplifier and speaker(s)		
	Mic In (Future)	3.5 mm mini jack		
	SD Card Slot	1 slot supports max 2GB (SD,) max 32GB (SDHC)		
	HDMI Video Out	N/A		
	Supply Power	10.2-26.4 VDC Class 2, Use Class2 and SELV (Safety Extra-Low Voltage) Circuit and 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	18.0 W 1.50 A @ 12VDC 0.75 A @ 24VDC	17.0W 1.42A @ 12 VDC 0.71A @ 24 VDC	
	Internal Fuse (non-replaceable)	6.3 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)		
	Agency Approvals	UL508, 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 10" TFT Color Touch Panel - Full Model

EA9-T10CL

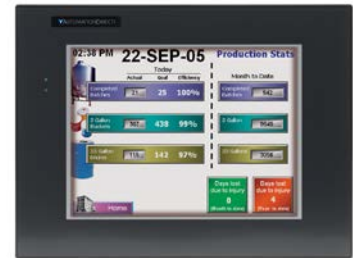
C-more EA9 series touch screen interface panel, 10-inch color TFT (10.4 inch viewable screen), 64K colors, 800 x 600 pixel SVGA screen resolution, 800MHz CPU, 12-24 VDC powered, NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), non-replaceable LED backlight. Includes (3) serial ports, USB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

Features

- 10.4" diagonal color TFT (Thin Film Transistor) LCD display with 64K colors
- 800 x 600 pixel resolution
- 280 NITS display brightness
- 50,000 hour average backlight half-life
- Analog resistive (1024 X 1024) touch screen allowing unlimited touch areas
- USB port B (program/download) and USB port A (USB device options)
- Ethernet 10/100 Base-T port (program/download & PLC communication)
- 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)
- 43MB project memory
- Data logging
- 0 to 50°C [32 to 122°F] operating temperature range
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- Slim design save panel space
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase



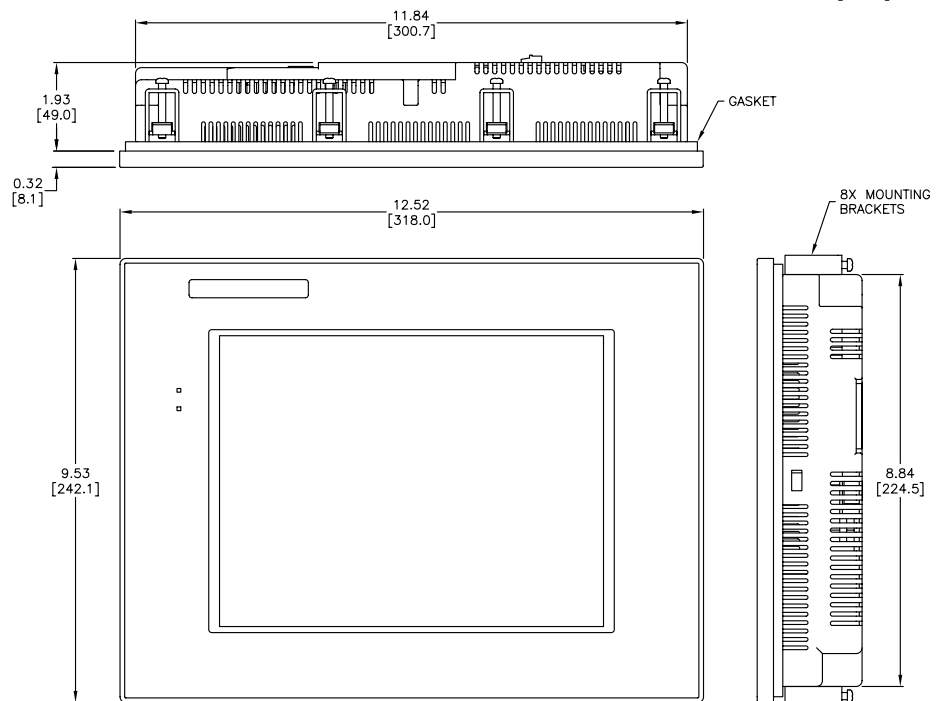
Function	Available
Ethernet	Yes
USB	Yes
SD Card	Yes
Audio Out	Yes
HDMI Video Out	No
Expansion Module	Yes



\$1,718.00

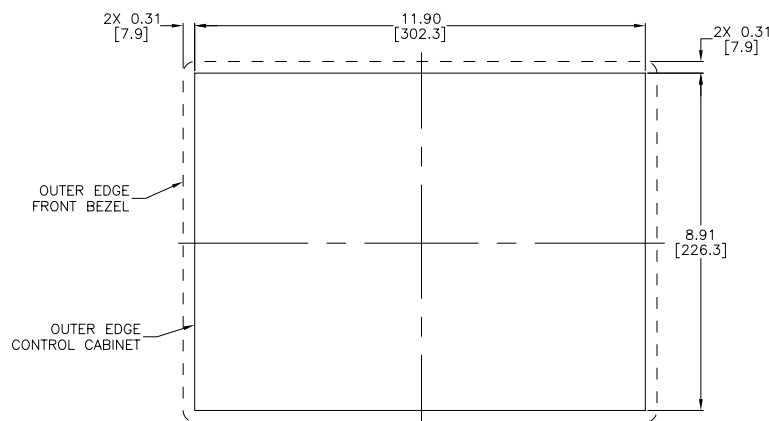
Dimensions

Units: inches [mm]



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

Mounting Cutout



C-more Communication Ports



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

Cable Description	Cable Part Number	Price
AutomationDirect 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.	<u>EA-2CBL</u>	\$37.00
AutomationDirect 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.	<u>EA-2CBL-1</u>	\$38.00
AutomationDirect 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.	<u>EA-3CBL</u>	Retired
AutomationDirect 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.	<u>EA-4CBL-1</u>	\$37.00
AutomationDirect 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.	<u>EA-4CBL-2</u>	\$38.50
AutomationDirect 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.	<u>EA-MLOGIX-CBL</u>	\$57.00
AutomationDirect 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.	<u>EA-SLC-232-CBL</u>	\$37.00
AutomationDirect 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 Allen-Bradley PLC-5 CPU with a DF1 port.	<u>EA-PLC5-232-CBL</u>	Retired
AutomationDirect 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.	<u>EA-DH485-CBL</u>	\$36.50
AutomationDirect 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.	<u>EA-90-30-CBL</u>	\$37.00
AutomationDirect 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.	<u>EA-MITSU-CBL</u>	\$31.00
AutomationDirect 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.	<u>EA-MITSU-CBL-1</u>	\$37.00
AutomationDirect 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.	<u>EA-OMRON-CBL</u>	\$37.00

Example Cables:



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.



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 Webserver (Secure HTTPs), 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.

USB Programming Cable



Part No. USB-CBL-ABxx

USB Programming Cables		
Part Number	Length	Price
USB-CBL-AB3	3 feet	\$12.00
USB-CBL-AB6	6 feet	\$16.00
USB-CBL-AB10	10 feet	\$36.50
USB-CBL-AB15	15 feet	\$42.50

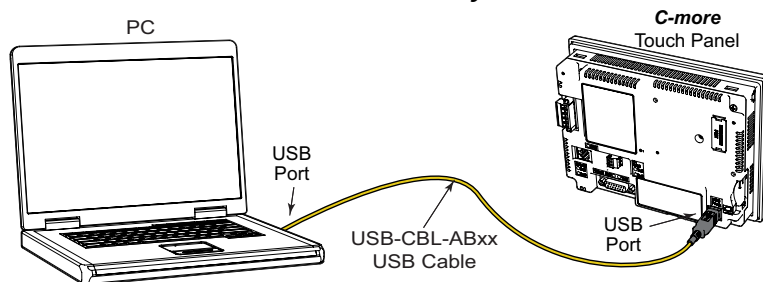
Stride® Ethernet Switch



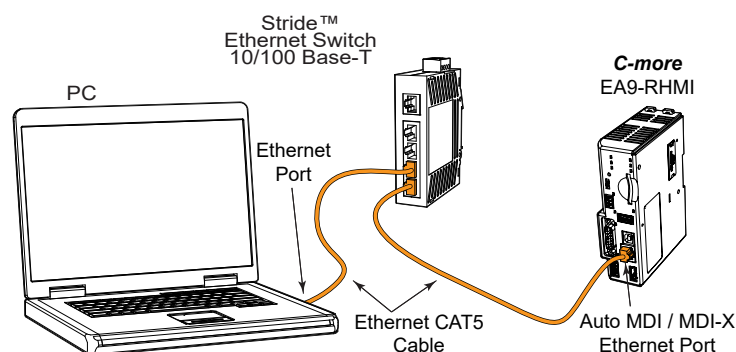
Message is sent out only from the port connected to destination device

Message in from a device

USB Connectivity



Ethernet Connectivity via a Hub or Switch



Ethernet Direct Connection



C-more Accessories

Accessories

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

Part Number	Description	Price
<u>EA-AC</u>	C-more AC/DC power adapter, 24 VDC, 1.5A. For use with C-more EA7 and EA9 series touch panels.	\$118.00
<u>EA-6-COV2</u>	C-more screen protector, non-glare, 6in. Package of 3. For use with C-more and C-more Micro 6in HMIs.	\$53.50
<u>EA-7-COV2</u>	C-more screen protector, non-glare, 7in. Package of 3. For use with C-more 7in HMIs.	\$55.00
<u>EA-8-COV2</u>	C-more screen protector, non-glare, 8in. Package of 3. For use with C-more and C-more Micro 8in HMIs.	\$57.00
<u>EA-10-COV2</u>	C-more Micro screen protector, non-glare, 10in. Package of 3. For use with C-more EA9-T10CL and C-more Micro EA3-T10CL HMIs.	\$63.50
<u>EA-10W-COV2</u>	C-more screen protector, non-glare, 10in. Package of 3. For use with C-more EA9-T10WCL widescreen HMI.	\$63.50
<u>EA-12-COV2</u>	C-more screen protector, non-glare, 12in. Package of 3. For use with C-more 12in HMIs.	\$66.00
<u>EA-15-COV2</u>	C-more screen protector, non-glare, 15in. Package of 3. For use with C-more 15in HMIs.	\$77.50
<u>EA-ECOM</u>	C-more communication expansion module, (1) RJ45 10/100 Mbps Ethernet port. For use with C-more Micro EA3 series 6in, 8in and 10in panels and all C-more HMIs except CM5 series and -R models.	\$105.00
<u>EA-COMCON-3</u>	C-more DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, right angle cable entry. For use with C-more Micro EA1 series 4in and 6in HMIs, C-more Micro EA3 series 3in, 4in, and 6in HMIs, C-more EA9 6in and 7in HMIs and C-more CM5 series 4in HMI.	\$59.50
<u>EA-COMCON-3A</u>	C-more Micro DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, straight cable entry. For use with C-more Micro EA1 3in with EA1-MG-SP1, EA3 8in and 10in HMIs, C-more EA9 8in, 10in, 12in and 15in and CM5 7in, 10in, 12in, 15in and 22in HMIs.	\$30.50
<u>EA-SD-CARD</u>	C-more industrial memory card, 2 GB SD. For use with all products with SD memory card slot.	\$140.00
<u>USB-FLASH</u>	SanDisk USB Flash drive, 32 GB.	\$30.50

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** \$118.00

Dimensions

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

C-more Accessories

SD Card

EA-SD-CARD



\$140.00

SD memory card for non-volatile storage, 2GB industrial grade, 70° 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. EA-SD-CARD may be used with all products with an SD card slot.

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



\$30.50

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) and EA9-T7CL(-R) panels, CM5-T4W and **C-more** Micro 4" and 6" panels. EA-COMCON-3 is UL Recognized

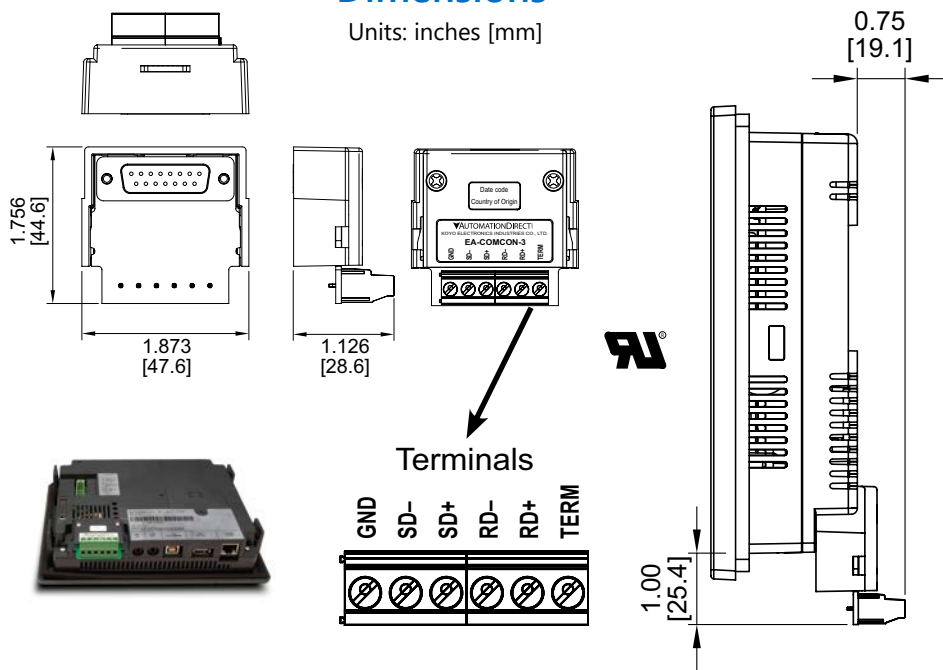
Part No. EA-COMCON-3



\$59.50

Dimensions

Units: inches [mm]



Terminals



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, CM5-T7W, CM5-T10W, CM5-T12W, CM5-T15W, CM5-T22W, **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. The EA-COMCON-3A is not UL recognized or listed.

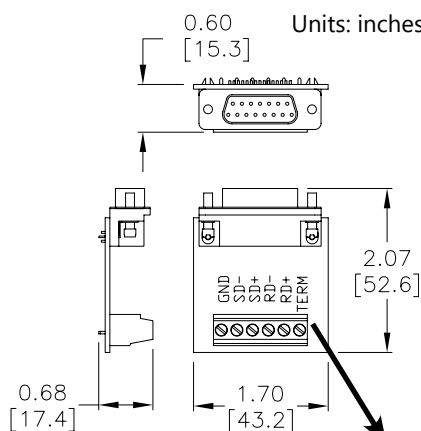
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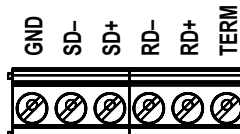
\$30.50

Dimensions

Units: inches [mm]



Terminals



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

Units: inches [mm]



EA-6-COV2	\$53.50
EA-7-COV2	\$55.00
EA-8-COV2	\$57.00
EA-10-COV2	\$63.50
EA-10W-COV2	\$63.50
EA-12-COV2	\$66.00
EA-15-COV2	\$77.50

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	10.10 [256.5]	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** \$105.00



Dimensions

Units: inches [mm]



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)







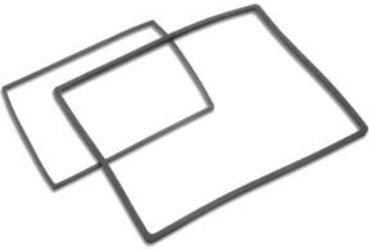
EA-ECOM Specifications

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
<u>EA9-BRK</u>	\$41.50		C-more panel mounting brackets, replacement. Package of 8. For use with C-more EA9 series touch panels.
<u>EA9-LBL</u>	\$47.50		C-more blank label insert, replacement. Package of 10. For use with C-more EA9 series HMI front bezel.
<u>EA9-3TB</u>	\$16.00		C-more pluggable terminal block, replacement, 3-pole. Package of 2. For use with 3-wire RS485 communications port on C-more EA9 series panels.
<u>C0-4TB</u>	\$11.00		CLICK terminal blocks, replacement, 4-pole. Package of 2. For use with CLICK PLCs, C-more CM5 series HMIs and C-more EA9-RHMI.
<u>EA-DC-CON</u>	\$20.50		C-more DC 5-terminal power connector, replacement. For use with C-more EA7 and EA9 series touch panels.
<u>EA-AC-CON</u>	\$11.00		C-more AC 3-terminal power connector, replacement. For use with C-more AC adapter (p/n EA-AC).
<u>EA9-15-GSK</u>	\$45.00		C-more panel mounting gasket, replacement. For use with C-more EA9 series 15in HMIs.
<u>EA9-12-GSK</u>	\$31.50		C-more panel mounting gasket, replacement. For use with C-more EA9-T12CL 12in touch panel.
<u>EA9-10W-GSK</u>	\$31.50		C-more panel mounting gasket, replacement. For use with C-more EA9-T10WCL 10in HMI.
<u>EA9-10-GSK</u>	\$35.00		C-more panel mounting gasket, replacement. For use with C-more EA9-T10CL 10in HMI.
<u>EA9-8-GSK</u>	\$31.00		C-more panel mounting gasket, replacement. For use with C-more EA9-T8CL 8in touch panel.
<u>EA9-6-GSK</u>	\$27.00		C-more panel mounting gasket, replacement. For use with C-more EA9 series 6in and 7in touch panels.