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.	
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.	
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.	
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.	
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.	9.00
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.	0.00
EA9-T10WCL	<i>C-more</i> EA9 series touch screen HMI, 10in color TFT LCD, wides- creen, 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.	
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.	7.00
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.	1.00
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.	0.00
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.	
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.	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.	
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.	
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.	
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.	

C-more Selection Guide & Specifications

Model Specification	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				
Display Actual Size and Type	5.7" TF	T color		T color
Display Viewing Area	4.54" > [115.2 mm	(3.40" 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 24) (QVGA)	800 x 480 (WVGA)	
Display Brightness	280 nit	ts (typ)	350 ni	ts (typ)
LCD Panel Dot Pitch	0.18 mm >	< 0.18 mm	0.190 mm	x 0.190 mm
Color Scale		65,536	colors	
Backlight Average Lifetime*		50,000 hou	ırs @ 25°C	
Touch Panel Type**		Four-wire analog re	sistive, single touch	
Project Memory		261	MB	
Number of Screens		Up to 999 screens – lin	nited by project memory	
Realtime Clock		Realtime clock built into panel,	backed up for 30 days at 25°C	
Calendar – Month / Day / Year		Yes - monthly deviati	on 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	USE	3 2.0 High speed (480 Mbps) Type B – Do	ownload/Program – Max. cable length 15	feet
USB Port – Type A	USB 2.0 High speed (480 N	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			it (LEC), e. 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 2000)m (6562ft)	
Operating Temperature	0 to 50°C (32 to 122°	F) Maximum surrounding air temperature		st Nb. Thermal Shock)
Storage Temperature		, , , , , , , , , , , , , , , , , , , ,	IEC 60068-2-1 (Test Ab, Cold) 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 UL50 type			
Agency Approvals	UL508, E157382, Class 1, Div 2, Groups A, B, C CE (EN61131-2), RoHS (2011/65/EU) CUL Canadian C22.2 UL Canadian C22.2			
backlight depends on the a	time is defined as the average usag ambient temperature. The lifetime v	e time it takes before the brightness vill decrease under low or high temp is touched at multiple points at the	erature usage.	

C-more 7" TFT Color Touch Panel - Full Model

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.

EA9-T7CL

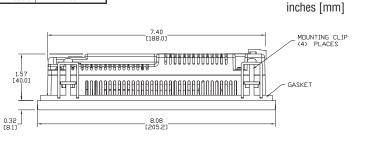


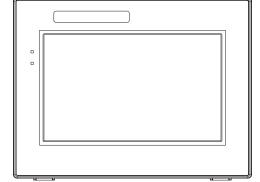
Dimensions

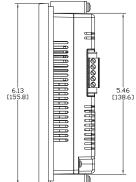
Features

- 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

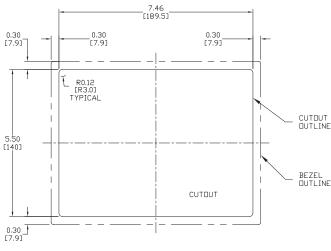




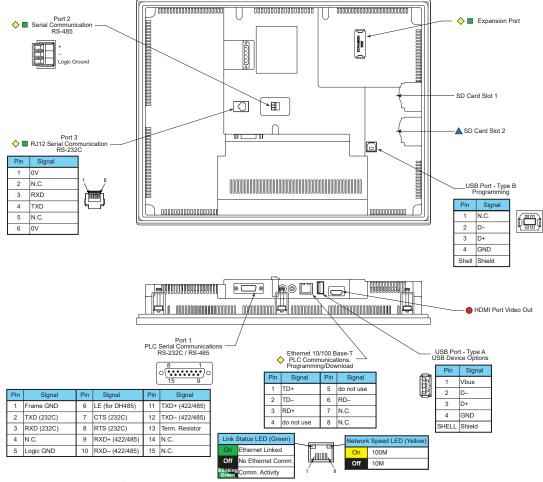


See our websfite for complete engineering drawings.

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.

Operator Interface tCME-16

C-more Communication Protocols & Cables

DI 0 5 1		Compatibility Table		Cable	Cable	Price
PLC Family	Model		Protocols	Description	Part Number	11166
	MicroLogix 1000, 1	100, 1200, 1400, 1500,	DH485/AIC/AIC+			
	MicroLogix 1000. 1	100, 1200, 1400 and 1500		Communication cable, 15-pin male D-sub to 6-pin RJ12, shielded, 9.8tt/3m cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and AutomationDirect PLCs with RJ12 ports.		
	SLC 5-/03/04/05		DF1 Half Duplex; DF1 Full Duplex	use with <i>C-more</i> or <i>C-more</i> Micro panel and	EA-2CBL	
		mpactLogix™, FlexLogix™		AutomationDirect PLCs with RJ12 ports.		
	PLC-5		DF1 Full Duplex			
		pactLogix, FlexLogix - Tag Based	DF1 Half Duplex; DF1 Full Duplex	Communication cable, 15-pin male D-sub to 15-pin D-sub HD15 male, shielded, 3m/9.8tt cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and a DL06, D2-250(-1), D2-260 or D2-262 (bottom port) CPU.		
	ControlLogix, Com	pactLogix, FlexLogix - jing	EtherNet/IP Server	length. For use with <i>C-more</i> or <i>C-more</i> Micro	EA-2CBL-1	
Allen-Bradley		pactLogix, FlexLogix - Tag Based		- panel and a DL06, D2-250(-1), D2-260 or D2-262 (bottom port) CPU		
	Micrologix 1100, 1	400 & SLC5/05, all via native				
	Ethernet port	1100 1000 1400 1500 8	EtherNet/IP Client	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	EA-3CBL	
	SLC 5-03/04/05, al	100, 1200, 1400,1500 & Il via ENI Adapter		CPU top or bottom port.		
	Micro 800 series	ł	Modbus RTU			
	WICLO 800 Series		Modbus TCP	Communication cable, 15-pin male D-sub to 15-pin male D-sub, shielded, 3m/9.8t cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and a DL405 (top port) CPU.	EA-4CBL-1	
	Micro 800 series -	Tag Rasod	DF1 Full Duplex	length. For use with <i>C-more</i> or <i>C-more</i> Micro		
		0	EtherNet/IP Client	Communication cable 15 pin male D sub to		
Modbus RTU	Modbus RTU devic		Modbus RTU	25-pin male D-sub, shielded, 3m/9.8ft cable		
Modbus TCP/IP	Modbus TCP/IP de		Modbus TCP/IP	length. For use with <i>C-more</i> or <i>C-more</i> Micro	EA-4CBL-2	
GE		o 90, VersaMax Micro	SNPX	Communication cable, 15-pin male D-sub to 25-pin male D-sub, shielded, 3m/9 8th cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and a D2-DCM, D3-232-DCU, D3-350 (bot- tom port) or DL405 (bottom port) CPU.		
~L	90/30, Rx3i		SRTP Ethernet	Communication cable, 15-pin male D-sub to 8-pin		
	FX Series	0.0011 0.0511	FX Direct	male mini DIN, shielded, 3m/9.8ft cable length.	EA-MLOGIX-CBL	
Mitsubishi	Q02, Q02H, Q06H,	Q12H, Q25H	Q CPU	Communication cable, 15-pin male D-sub to 8-pin male mini DIN, shielded, 3m/9.8ft cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and an Allen-Bradley Micrologix CPU.		
	Q, QnA Serial		QnA Serial	Communication cable 15-pin male D-sub to 9-pin		
	Q, QnA Ethernet		QnA Ethernet	Communication cable, 15-pin male D-sub to 9-pin female D-sub, shielded, 3m/9.8ft cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and an Allen-Bradley SLC 5/03, 5/04 or 5/05 CPU with DF-1 port.	EA-SLC-232-CBL	
Omron	C200 Adapter, C50		Host Link	Allen-Bradley SLC 5/03, 5/04 or 5/05 CPU with	EA-5L6-232-6BL	
	CJ1/CS1 Serial, CJ		FINS	DF-1 port.		
Modicon	Series 110 CPU; 31	113 CPU, AEG Modicon Micro 11-xx, 411-xx, 512-xx, 612-xx	Modbus RTU	Communication cable, 15-pin male D-sub to		
	S7-200 CPU, RS-4		PPI	Communication cable, 15-pin male D-sub to 25-pin male D-sub, 3m/9.8ft cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and an Allen-Bradley PLC-5 CPU with a DF1 port.	EA-PLC5-232-CBL	
Siemens	S7-200 CPU, S7-3	00 CPU, S7-400, S7-1200 CPU,	Ethernet ISO over TCP	Allen-Bradley PLC-5 CPU with a DF1 port.		
	S7-1500; Ethernet			Communication cable, 15-pin male D-sub to 6-pin RJ45, shielded, 3m/9.8ft cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and an Allen-Bradley SLC 5/01, 5/02 or 5/03 CPU with a DH485 port cable.		
Productivity	all		AutomationDirect P3000 Serial	6-pin RJ45, shielded, 3m/9.8ft cable length. For	EA-DH485-CBL	
Series			AutomationDirect P3000 Ethernet	Allen-Bradley SLC 5/01, 5/02 or 5/03 CPU with a	LA-DII403-CDL	
Do-more	all		Do-more Serial Do-more Ethernet	DH485 port cable.		
CLICK	all			Communication cable, 15-pin male D-sub to 15-pin male D-sub, shielded, 3m/9.8t cable length. For use with <i>C-more</i> or <i>C-more</i> Micro and GE Fanuc Series 90/30 or 90/70 serial port.		
GLIGN	all		AutomationDirect Modbus (CLICK) K-Sequence	length. For use with <i>C-more</i> or <i>C-more</i> Micro	EA-90-30-CBL	
		all	Direct NET	and GE Fanuc Series 90/30 or 90/70 serial port.		
	DL05/DL06	an	Modbus (Koyo addressing)	Communication cable, 15-pin male D-sub to 25-pin male D-sub, 3m/9.8tt cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and a Mitsubishi FX Series CPU.		
		H0-ECOM/H0-ECOM100	Direct LOGIC Ethernet	use with <i>C-more</i> or <i>C-more</i> Micro panel and a	EA-MITSU-CBL	
	DL105	all	K-Sequence			
	DEIto	D2-230	K-Sequence	Communication cable, 15-pin male D-sub to 8-pin male mini DIN, shielded, 3m/9.8ft cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and a Mitsubishi FX Series CPU.		
			K-Sequence	For use with <i>C-more</i> or <i>C-more</i> Micro panel and	EA-MITSU-CBL-1	
		D2-240	Direct NET			
			K-Sequence	Communication cable, 15-pin male D-sub to 25-pin male D-sub, shielded, 3m/9.8t cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and an Omron C200 or C500 CPU.		
	DL205	D2-250/D2-250-1/D2-260/ D2-262	Direct NET	length. For use with <i>C-more</i> or <i>C-more</i> Micro	EA-OMRON-CBL	
		DZ-202	Modbus (Koyo addressing)	panel and an Omron C200 or C500 CPU.		
		D2-240/D2-250-1/D2-260	Direct NET			
		D2-240/D2-250-1/D2-260 using D2-DCM	Modbus (Koyo addressing)			
		H2-ECOM/H2-ECOM100	DirectLOGIC Ethernet]		
		D3-330/330P (Requires the use of a Data Communications Unit)	DivertNET			
		Communications Unit)	Direct NET	Example Cables:		
		D3-340	Direct NET	EA-2CE	BL	
DirectLOGIC	DL305		K-Sequence			
	DL303	D3-350	Direct NET			
			Modbus (Koyo addressing)			
		D2 250 uning D2 DCM	Direct NET			
		D3-350 using D3-DCM	Modbus (Koyo addressing)			
		D4-430	K-Sequence			
		D4-430	Direct NET	O TERMINE O	and a second sec	
		D4-440	K-Sequence			
		D-1-110	Direct NET	EA-2CB	L-1	
	DL405		K-Sequence			
	DLTOJ	L405 D4-450/D4-454 Direct NET Modbus (Koyo addressing)				
		All with D4-DCM	Direct NET			
			Modbus (Koyo addressing)			
		H4-ECOM/H4-ECOM100	DirectLOGIC Ethernet			
	H2-WinPLC (Think Studio any version	& Do) Live V5.2 or later and	Think & Do Modbus RTU (serial port)			
	H2-WinPLC (Think	& Do) Live V5.5.1 or later and	Think & Do Modbus TCP/IP (Ethernet port)			

C-more Computer Programming Connections

Using the C-more Programming Software EA9-PGMSW for project development, the HMI USB Programming Cable 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:

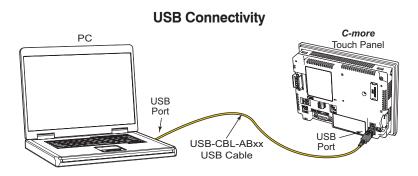
- USB or Ethernet connection to HMI (cables sold separately).
- Windows operating system see automationdirect.com for specific operating system requirements.



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 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.





Part No. USB-CBL-ABxx

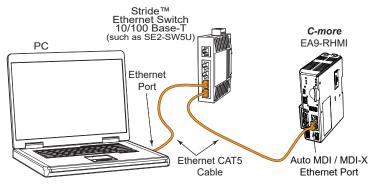
USB Programming Cables				
Part Number	Length	Price		
USB-CBL-AB3	3 feet			
USB-CBL-AB6	6 feet			
USB-CBL-AB10	10 feet			
USB-CBL-AB15	15 feet			

Stride[®] **Ethernet Switch**

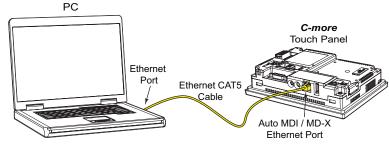


Part No. SE2-SW5U

Ethernet Connectivity via a Hub or Switch



Ethernet Direct Connection

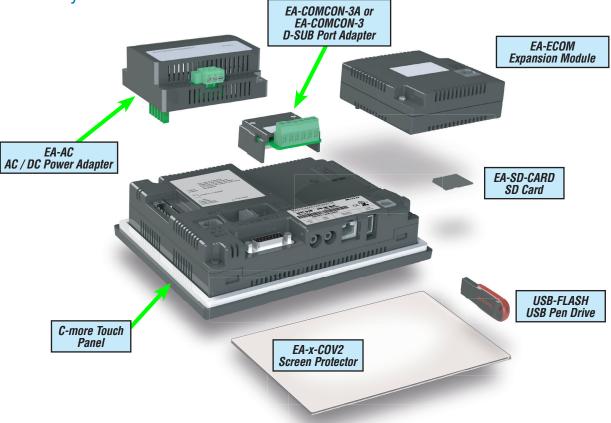


Accessories

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.				
EA-6-COV2	Screen protector, non-glare, 6in. Package of 3. For use with C-more and C-more Micro 6in panels.				
EA-7-COV2	Screen protector, non-glare, 7in. Package of 3. For use with <i>C-more</i> 7in panels.				
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.				
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.				
EA-10W-COV2	Screen protector, non-glare, 10in. Package of 3. For use with <i>C-more</i> EA9-T10WCL widescreen HMI.				
EA-12-COV2	Screen protector, non-glare, 12in. Package of 3. For use with <i>C-more</i> 12in panels.				
EA-15-COV2	Screen protector, non-glare, 15in. Package of 3. For use with <i>C-more</i> 15in panels.				
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.				
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.				
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.				
EA-SD-CARD	SD memory card, 2GB, industrial.				
USB-FLASH	SanDisk USB Flash drive, 32GB.				

Accessory Locations



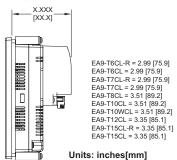
AC/DC Power Adapter

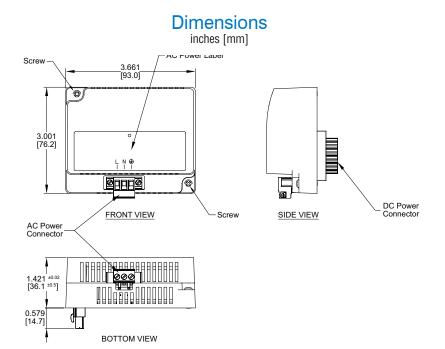
The optional *C-more* AC/DC Power Adapter can be used to power the *C-more* touch panels from a 100-240 VAC, 50/60 Hertz, voltage source. The adapter provides 24VDC @ 1.5 A to the touch panel's DC power connector and can be conveniently secured to the touch panel with two captive screws.

Part No. EA-AC



Overall Panel Depth w/ EA-AC Installed





ability. EA-AC is not compatible with EA9-RHMI.

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 reli-

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 tem- perature 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 con- nection 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)	

SD Card

EA-SD-CARD



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

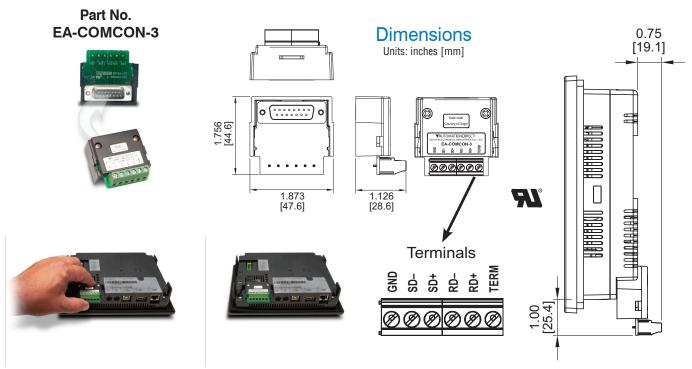
USB-FLASH



USB flash drive for non-volatile storage, 32GB. Recommended for the $\emph{C-more}$ EA9 series touch panels.

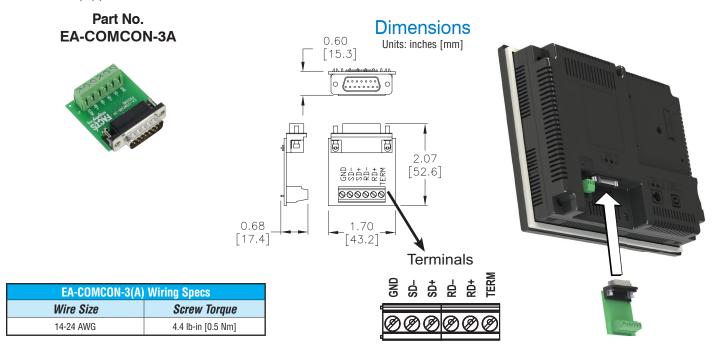
D-SUB 15-pin to Terminal Block Adapter - Right Angle

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



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.



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



EA-6-COV2 EA-7-COV2 EA-8-COV2 EA-10-COV2 EA-10W-COV2 EA-12-COV2 EA-15-COV2 inches [mm]

Dimensions

Non-glare Screen Covers Dimensions - inches [mm]				
Part Number	A	В	C	D
EA-6-COV2	4.91 [124.8]	3.80 [96.4]		
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]	0.197 [5.0]	0.157 [4.0]
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







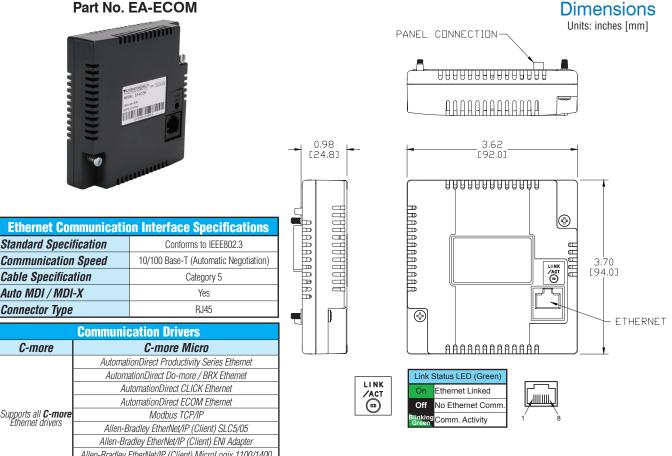


NOTE: The Protective Cover ships with a thin protective sheet on the face of the cover that needs to be carefully removed. If your panel is not clear, the protective sheet may not have been removed.

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.



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 numbers 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		A A A A A	Panel mounting brackets, replacement. Package of 8. For use with <i>C-more</i> EA9 series touch panels.
EA9-LBL			Blank label insert, replacement. Package of 10. For use with <i>C-more</i> EA9 series touch screen front bezel.
EA9-3TB		inter inter	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		TATE TREE	CLICK terminal blocks, replacement, 4-pole. Package of 2. For use with CLICK PLCs. and <i>C-more</i> EA9-RHMI.
EA-DC-CON			DC 5-terminal power connector, replacement. For use with <i>C-more</i> EA7 and EA9 series touch panels.
EA-AC-CON			AC 3-terminal power connector, replacement. For use with <i>C-more</i> AC adapter (p/n EA-AC).
EA9-15-GSK			Panel mounting gasket, replacement. For use with <i>C-more</i> EA9 series 15in HMIs.
EA9-12-GSK			Panel mounting gasket, replacement. For use with <i>C-more</i> EA9-T12CL 12in touch panel.
EA9-10W-GSK			Panel mounting gasket, replacement. For use with <i>C-more</i> EA9-T10WCL 10in HMI.
EA9-10-GSK		4	Panel mounting gasket, replacement. For use with <i>C-more</i> EA9-T10CL 10in HMI.
EA9-8-GSK			Panel mounting gasket, replacement. For use with <i>C-more</i> EA9-T8CL 8in touch panel.
EA9-6-GSK			Panel mounting gasket, replacement. For use with <i>C-more</i> EA9 series 6in and 7in touch panels.