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 <u>EA9-RHMI</u>
- **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 <u>EA-AC</u>
- Personal Computer to run *C-more* programming software
- PLC communications cable (serial or Ethernet) to connect the *C-more* HMI to your controller

Part	Description	Price
Number		
<u>EA9-T6CL-R</u>	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
<u>EA9-T6CL</u>	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
<u>EA9-T7CL-R</u>	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
<u>EA9-T7CL</u>	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
<u>EA9-T8CL</u>	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
<u>EA9-T10CL</u>	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
<u>EA9-T10WCL</u>	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
<u>EA9-T12CL</u>	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
<u>EA9-T15CL-R</u>	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
<u>EA9-T15CL</u>	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
<u>EA9-RHMI</u>	C-more EA9 series headless HMI, (2) serial, (1) Ethernet and (2) USB ports, (1) HDMI audio/video out and (1) memory card slot.	\$560.00
<u>EA9-PGMSW</u>	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
<u>USB-CBL-AB3</u>	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
<u>USB-CBL-AB6</u>	AutomationDirect 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.	\$16.00
<u>USB-CBL-AB10</u>	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
<u>USB-CBL-AB15</u>	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	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	\$799.00	\$1,003.00	\$688.00	Retired
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 24	0 (QVGA)	800 x 48	0 (WVGA)
Display Brightness	280 n	its (typ)	350 n	its (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 hou	urs @ 25°C	
Touch Panel Type**		Four-wire analog re	esistive, single touch	
Project Memory	26	imb		MB
Number of Screens			nited by project memory	
Realtime Clock			backed up for 30 days at 25°C	
Calendar –			backed up for 50 days at 25°C	
Month / Day / Year			on 60sec (Reference)	
Serial Port 1			- RS232C, RS-422/485	A I I I I I I I I I I
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		.0 High speed (480 Mbps) Type B – D		
USB Port – Type A	USB 2.0 High speed (480 Mb	ps) Type A – for USB device options –	Max. cable length 15-feet - Bus Pow	er – 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, <u>EA-AC</u> , 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 2000	Dm (6562ft)	
Operating Temperature	0 to 50°C (32 to 122°F)	Maximum surrounding air temperature		(Test Nb. Thermal Shock)
		· · ·	IEC 60068-2-1 (Test Ab, Cold)	,
Storage Temperature		EC 60068-2-2 (Test Bb, Dry Heat) IEC		k)
Humidity		5-95% RH (no	on-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. (F	G to Power supply)	
Insulation Resistance		> 10M ohm @ 500VD0	C (FG to Power supply)	
Vibration		IEC60068-2	2-6 (Test Fc)	
Shock	IEC60068-2-27 (Test Ea)			
Emission			adiated RF emission)	
Enclosure		only UL50 type 4X indoor use only When mounted correctly)	NEMA 250 type 4/4X indoor use	only UL50 type 4X indoor use only (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 CUL Canadian C22.2			
brightness. The lifet temperature usage.	rage lifetime is defined as time of the backlight deper s designed to respond to a	the average usage time it ta ids on the ambient tempera i single touch. If it is touche	kes before the brightness ture. The lifetime will decre	becomes 50% of the initia ease under low or high

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]	
Neight	2.93 lb [1330g]	4.19 lb [1900g]	2.43 lb [1100g]	
Screen Pixel	2.95 Ib [1550g] 4.19 Ib [1900g] 2.45 Ib [1100g] 800 x 600 (SVGA) 1024 x 600 (WSVGA)			
Display Brightness	310 nits (typ) 280 nits (typ) 240 nits (typ)			
CD Panel Dot Pitch	0.213 mm x 0.213 mm 0.264 mm x 0.264 mm 0.218 mm x			
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	Realti	me clock built into panel, backed up for 30 days a	t 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		
JSB Port – Type B	USB 2.0 High speed	I (480 Mbps) Type B – Download/Program – Max.	cable length 15-feet	
JSB Port – Type A			v	
Ethernet Port	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 10/100 Base-T, auto MDI/MDI-X			
Ethernet Port -	EA-ECOM			
Expansion Module Audio Line Out	3	.5 mm mini jack – requires amplifier and speaker(
		3.5 mm mini jack	3)	
Mic In (Future) SD Card Slot		1 slot supports max 2GB (SD,) max 32GB (SDHC	-)	
IDMI Video Out		N/A)	
	10.2-26.4 VDC Class 2. Use Clas	ss2 and SELV (Safety Extra-Low Voltage) Circuit	and Limited Energy Circuit (LEC)	
Supply Power	or use the AC/DC Power Adapter, EA-AC, to p	power the touch panel from a 100-240 VAC, 50/60 0 W		
Power Consumption	1.50 A @) 12VDC) 24VDC	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 surr	ounding air temperature rating: 50°C (122°F) IEC	60068-2-14 (Test Nb, Thermal Shock)	
Storage Temperature		o +60°C (–4 to +140°F) IEC 60068-2-1 (Test Ab, 2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, T		
Humidity		5-95% RH (non-condensing)		
Environment	For use in Pollution Degree 2 environment, no corrosive gases permitted			
Noise Immunity		161000-4-3 (RFI), EN61000-4-4 (FTB), EN61000- 1000-4-8 (Power f0requency magnetic field immu		
	(Local Test) RFI, (145MHz, 440Mhz 10W @ 10cm), Impulse 1000V @ 1µs pulse			
Nithstand Voltage	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1000VAC, 1min. (FG to Power supply)	· ·	
nsulation Resistance		> 10M ohm @ 500VDC (FG to Power supply)		
/ibration	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			
brightness. The lifetime temperature usage.	e of the backlight depends on the a lesigned to respond to a single touc	e usage time it takes before the brig ambient temperature. The lifetime w ch. If it is touched at multiple points	ill decrease under low or high	

C-more Selection Guide & Specifications

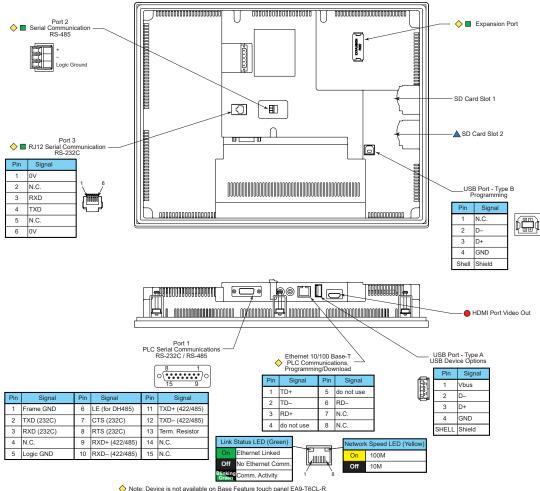
Model	12" TFT color w/ full features	15" TFT color w/ base features	15" TFT color w/ full features	
Specification	i de la companya de l			
Part Number	<u>EA9-T12CL</u>	EA9-T15CL-R	EA9-T15CL	
	\$1,479.00	\$1,959.00	\$2,684.00	
isplay Actual Size and Type	12.1" TFT color 15.0" TFT color 9.69" x 7.26" 11.97" x 8.98"			
Display Viewing Area	[246.0 mm x 184.5 mm]		x 228.0 mm]	
Veight	4.89 lb [2200g]	6.46 lb (2930g)	6.50 lb [2950g]	
Screen Pixel	800 x 600 (SVGA)	1024 x 7	68 (XGA)	
Display Brightness		280 nits (typ)		
.CD Panel Dot Pitch	0.3075 mm x 0.3075 mm 0.297 mm x 0.297 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		
lumber of Screens		Up to 999 screens – limited by project memory		
Realtime Clock	Realt	ime 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	N/A	3-wire terminal block – RS-485	
Serial Port 3	RJ-12 modular jack – RS-232C	N/A	RJ-12 modular jack – RS-232C	
ISB Port – Type B	• •	d (480 Mbps) Type B – Download/Program – Max.		
ISB Port – Type A	USB 2.0 High speed (480 Mbps) Type A -	for USB device options – Max. cable length 15-feel	t – Bus Power – Less than 200mA at 5VDC	
Ethernet Port		10/100 Base-T, auto MDI/MDI-X		
thernet Port - Expansion Module	EA-ECOM	N/A	EA-ECOM	
Audio Line Out	 3.5 mm mini jack – requires amplifier and speaker(s) 	N/A	3.5 mm mini jack – requires amplifier and speaker(s)	
Aic In (Future)	3.5 mm mini jack	N/A	3.5 mm mini jack	
SD Card Slot	·	2 slots support max 2GB (SD), max 32GB (SDHC))	
IDMI Video Out	HDMI Type A Port	N/A	HDMI Type A Port	
IDMI Supported Resolution	800 x 600 (SVGA)	N/A	1024 x 768 (XGA)	
Supply Power		iss2 and SELV (Safety Extra-Low Voltage) Circuit a power the touch panel from a 100-240 VAC, 50/60		
Power Consumption	21.0 W 1.75 A @ 12VDC 0.88 A @ 24VDC 1.20 A @ 24VDC			
nternal Fuse (non-replaceable)		6.3 A		
Altitude		Up to 2000m (6562ft)		
Operating Temperature	0 to 50°C (32 to 122°F) Maximum sur	rounding air temperature rating: 50°C (122°F) IEC	60068-2-14 (Test Nb, Thermal Shock)	
Storage Temperature		to +60°C (-4 to +140°F) IEC 60068-2-1 (Test Ab, (,	
Humidity	IEC 00008-2-	-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Th 5-95% RH (non-condensing)	iennai Shuck)	
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)			
Withstand Voltage	KFI, (143	5MHz, 440Mhz 10W @ 10cm), Impulse 1000V @ 1 1000VAC, 1min. (FG to Power supply)	i ho haise	
nsulation Resistance		, (113)		
libration	> 10M ohm @ 500VDC (FG to Power supply)			
Shock	IEC60068-2-6 (Test Fc)			
Emission	IEC60068-2-27 (Test Ea) 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) UL508, E157382			
Agency Approvals	CE (EN61131-2), RoHS (2011/65/EU) CUL Canadian C22.2			
brightness. The lifetime of temperature usage.	f the backlight depends on the ambi	ge time it takes before the brightnes ent temperature. The lifetime will dec f it is touched at multiple points at th	crease under low or high	

C-more Selection Guide & Specifications

Specification	EA9 Headless HMI
Part Number	EA9-RHMI
Price	\$560.00
Display	No Display
Weight	0.59 lb [269g]
Project Memory	82MB
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
USB Port – Type B	USB 2.0 High speed (480 Mbps) Type B - Download/Program Max cable length - 15 ft.
USB Port – Type A	USB 2.0 High speed (480 Mbps) Type A - for USB device options Max cable length - 15ft Bus Power – Less than 500mA at 5VDC
Supported Touch Screen	ELO [™] Single Touch Resistive/SAW, EETI eGalax Single Touch Resistive and pCap Compatible with AutomationDirect Atlas Monitors. See the EA-RHMI user manual for more compatible touchscreen monitors
Ethernet Port	10/100 Base-T, auto MDI/MDI-X
Ethernet Port - Expansion Module	<u>EA-ECOM</u>
Audio Line Out	Audio supported through HDMI connection
Mic In (Future)	N/A
SD Card Slot	1 slot support max 2GB (SD), max 32GB (SDHC)
HDMI Video Out	HDMI Type A Port
HDMI Supported Resolutions	640 x 480 (VGA) 60Hz 720 x 480 (SD) 60Hz 1024 x 768 (XGA) 60Hz 1280 x 720 (HD) 60Hz With automatic negotiation function for HDMI displays
Supply Power	10.2-26.4 VDC Class 2, Use Class2 and SELV (Safety Extra-Low Voltage) Circuit and Limited Energy Circuit (LEC), Reverse Polarity Protected
Power Consumption	12.0 W 1.00 A @ 12VDC 0.50 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) –20 to 60°C (–4 to 140°F)
Storage Temperature	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): 4kV (Contact Discharge) 2kV/4kV/8kV (Air Discharge) EN61000-4-3 (RFI): 10V/m (80MHz-1GHz), 3V/m (1.4GHz-2.0GHz) 1V/m (2.0GHz-2.7GHz) EN61000-4-4 (FTB): 2kV ,positive/negative, 5kHz(DC Power Port) EN61000-4-5 (Serge): 0.5kV line to line 0.5kV line to earth EN61000-4-6 (Conducted): 10V, 0.15MHz - 80MHz EN61000-4-8 (Power frequency magnetic field immunity): 30A/m (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) 5-9Hz: 3.5mm amplitude, 9-150Hz 1.0G 10 sweep cycles per axis on each of 3 mutually perpendicular axes
Shock	IEC60068-2-27 (Test Ea) 15G peak, 11ms duration, 3 shocks in each direction per axis, on 3 mutually perpendicular axes
Emission	15G peak, 11ms duration, 3 shocks in each direction per axis, on 3 mutually perpendicular axes EN55011 Class A (Radiated RF emission)
Agency Approvals	UL61010, E157382 CE (EN61131-2), RoHS (2011/65/EU)
	CUL Canadian C22.2

www.automationdirect.com

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 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.

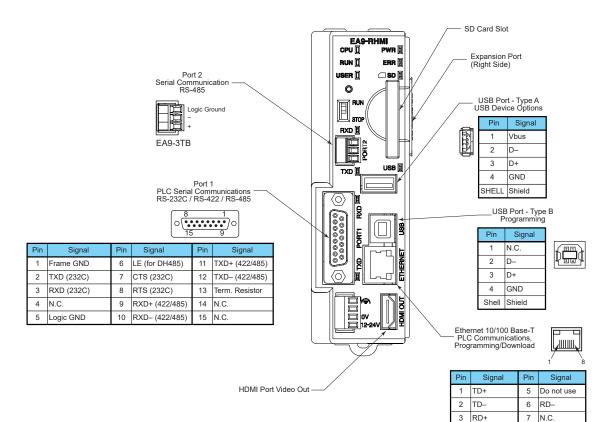
Port 2 - Connect your RS-485 network via Port 2. Port 2 is provided with a 3-wire removable terminal block.

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 EA9-RHMI 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.

Expansion Port

The expansion port supports the <u>EA-ECOM</u> module to provide a second Ethernet Port.

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 can be used to connect various USB HID (Human Input Device) devices to the panel, such as the following:

- USB touchscreen (ELO[™] Single Touch Resistive/SAW, EETI eGalax Single Touch Resistive and pCap touchscreens)
- USB mouse
- USB keyboard
- USB flash drives (<u>USB-FLASH</u>)
- USB barcode scanner
- USB card scanner

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.

* 500mA maximum current available. Powered USB hub may be required for some devices

Serial Port

8 N.C

do not use

4

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.

HDMI Out Port

<u>EA9-RHMI</u> includes an HDMI Type A port to provide video / audio output to a projector or remote monitor. Supported resolutions are...

- 640 x 480 (VGA) 60Hz
- 720 x 480 (SD) 60Hz
- 1024 x 768 (XGA) 60Hz
- 1280 x 720 (HD) 60Hz

For the latest prices, please check AutomationDirect.com.

1-800-633-0405 For the latest prices, please check AutomationDirect.com **C-more Communication Protocols & Cables**

DI C Esmilu		Compatibility Table	Drotocolo
PLC Family	Microl ogiv 1000	Model	Protocols
	SLC 5-/01/02/03	1100, 1200, 1400, 1500,	DH485/AIC/AIC+
	MicroLogix 1000, 1 SLC 5-/03/04/05	1100, 1200, 1400 and 1500	
	ControlLogix™. Co	ompactLogix™, FlexLogix™	DF1 Half Duplex; DF1 Full Duplex
	PLC-5		DF1 Full Duplex
Allen-Bradley	ControlLogix, Corr	pactLogix, FlexLogix - Tag	DF1 Half Duplex; DF1 Full Duplex
	Based ControlLogix, CompactLogix, FlexLogix -		
	Generic I/O Messa	iging	EtherNet/IP Server
	ControlLogix, CompactLogix, FlexLogix - Tag Based		
	Micrologix 1100, 1	400 & SLC5/05, all via native	EtherNet/IP Client
	Ethernet port	1100, 1200, 1400,1500 &	
	SLC 5-03/04/05, a	Il 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 devi	ces	Modbus RTU
Modbus TCP/IF			Modbus TCP/IP
GE	90/30, 90/70, Micro	o 90, VersaMax Micro	SNPX
GE	90/30, Rx3i		SRTP Ethernet
	FX Series		FX Direct
Mitsubishi	Q02, Q02H, Q06H	, Q12H, Q25H	Q CPU
	Q, QnA Serial		QnA Serial
	Q, QnA Ethernet	20	QnA Ethernet
Omron	C200 Adapter, C50		Host Link
	CJ1/CS1 Serial, C	n 113 CPU, AEG Modicon Micro	FINS
Modicon	Series 110 CPU: 3	<u>11-xx, 411-xx, 512-xx, 612-xx</u>	Modbus RTU
0:	S7-200 CPU, RS-4		PPI
Siemens	S7-200 CPU, S7-3	00 CPU, S7-400, S7-1200 CPU,	Ethernet ISO over TCP
Productivity			Productivity Serial
Series	all		Productivity Ethernet
001103			Do-more Serial
Do-more	all		Do-more Ethernet
<u> </u>	- 11		Modbus (CLICK addressing)
CLICK	all		Modbus TCP (CLICK addressing)
			K-Sequence
	DL05/DL06	all	DirectNET
	DEGO/DEGO		Modbus (Koyo addressing)
		H0-ECOM/H0-ECOM100	Direct LOGIC Ethernet
	DL105	all	K-Sequence
		D2-230	K-Sequence
		D2-240	K-Sequence
			DirectNET K-Sequence
	DL205	D2-250/D2-250-1/D2-260/ D2-262	DirectNET
	DE200	D2-262	Modbus (Koyo addressing)
		D2-240/D2-250-1/D2-260	DirectNET
		using D2-DCM	Modbus (Koyo addressing)
		H2-ECOM/H2-ECOM100	Direct LOGIC Ethernet
		D3-330/330P	DirectNET
		(Requires the use of a Data Communications Unit)	Directive i
		D3-340	DirectNET
Direct LOGIC	DL305		K-Sequence
	DLOOD	D3-350	DirectNET
			Modbus (Koyo addressing)
		D3-350 using D3-DCM	DirectNET
			Modbus (Koyo addressing)
		D4-430	K-Sequence
			DirectNET K Sequence
		D4-440	K-Sequence DirectNET
	DL405		K-Sequence
		D4-450/D4-454	DirectNET
			Modbus (Koyo addressing)
			DirectNET
		All with D4-DCM	Modbus (Koyo addressing)
		H4-ECOM/H4-ECOM100	Direct LOGIC Ethernet
	H2-WinPLC (Think	& Do) Live V5.2 or later and	Think & Do Modbus RTU
	H2-WinPLC (Think	$(\& D_0) ive \sqrt{5.5.1}$ or later and	(serial port) Think & Do Modbus TCP/IP
	H2-WinPLC (Think & Do) Live V5.5.1 or later and Studio V7.2.1 or later		(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 <i>C-more</i> or <i>C-more</i> Micro panel and AutomationDirect PLCs with RJ12 ports.	EA-2CBL	\$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 <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.	<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 <i>C-more</i> or <i>C-more</i> 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 <i>C-more</i> or <i>C-more</i> 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 <i>C-more</i> or <i>C-more</i> 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 <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.	<u>EA-SLC-232-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 <i>C-more</i> or <i>C-more</i> 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 <i>C-more</i> or <i>C-more</i> 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 <i>C-more</i> or <i>C-more</i> 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 <i>C-more</i> or <i>C-more</i> Micro panel and an Omron C200 or C500 CPU.	EA-OMRON-CBL	\$37.00
Example Cables:		



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