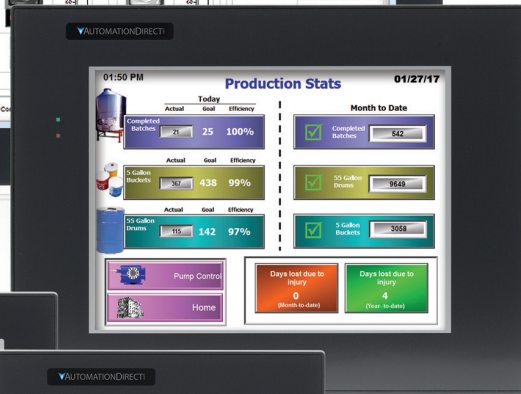
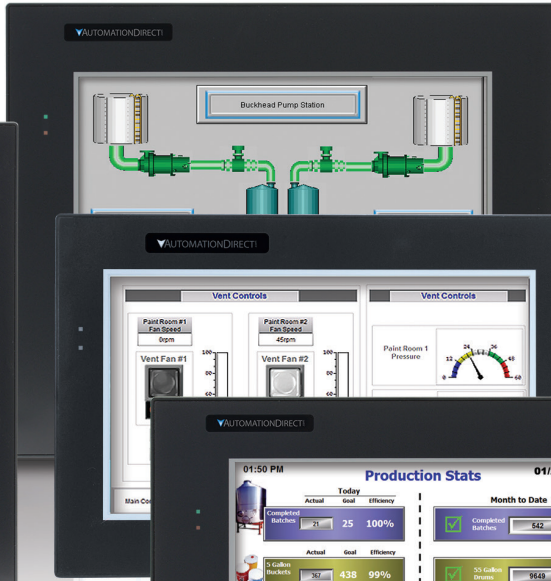


Easy to configure, install and maintain



Hundreds of powerful features

We maximized every feature, small and large, to make sure you have a great experience with your HMI.

- **Proven Reliability**
- **Predefined Objects**
- **Enhanced Productivity Tools**
- **Increased Device Connectivity**
- **Remote Access and Control** from any web browser, or with the mobile app*

C-more has better value all around!

*C-more Micro HMI panels do not have remote access capability.

Made by Koyo

Koyo Electronics, our parent company, is part of the multibillion dollar JTEKT group of companies that primarily provides components to automotive manufacturers such as Toyota. With this type of engineering and manufacturing background, we knew Koyo could create a product that would offer the best combination of reliability, ease of use, features and price.

Backed with a 2-year warranty

For over 50 years, Koyo has been a world class manufacturer of reliable and best valued products. C-more was designed with quality in mind and engineered by Koyo to meet the most stringent quality requirements. Therefore, Koyo is confident to offer a 2-year limited warranty on all C-more interfaces.



FREE Software!

C-more HMI design software can be downloaded free-of-charge. Get started on your project today or take it for a test drive.

Download as often as you need. No license or key needed.

[Click here to download.](#)



C-more Operator Touch Panels

Starting at just \$499.00, C-more Touch Panels are designed to give you one of the best costs of ownership, considering initial price, features, ease of use, reliability and free award winning technical support.

We continue to improve hardware and software features. Perhaps this is why more and more people find that C-more has what it takes to meet most of their HMI application needs. But don't take our word for it, see for yourself. Visit our Web site (www.automationdirect.com) and read all of the reviews that current C-more customers have submitted.

"I have used the C-More touch panels for years. They are reliable and fairly "bullet proof". I have utilized 6", 8", 10", 12" and 15" to control cell doors and escape detection systems in a maximum security prison, along with the Direct Logic Koyo PLC line and DirectSoft Programming software, with great success. Also you cannot beat the quick shipping, fair pricing and top-notch tech support of all Automation Direct products."

Rick - CONCORD, NH

Customer Reviews

Averages for C-more Touch Panels (all sizes)

Overall Score (4.6)
(129 reviews)

Quality:

Ease of Use:

Value:

"This thing is amazing. I started out wanting a screen that was all I hoped for to control a pump application. After I got the unit and the C more software I realized that there was an apple store App. Within 15 minutes of plugging it in and without ever cracking the manual open, I had a switch and an indicator on the screen, my phone, and my web browser and each was able to control my application. Clearly I will need to spend some more time to make it pretty but speed to solution? Amazing!!!!!"

Stewart -VALPARAISO, IN

"After using AB PanelViews for several years I started using the 15" EA9. What a great product. Programming is easy, the extra screen space I put to good use and was able to get more pertinent information that will help both the operators and maintenance personnel. This is also 1/3 of the price."

Bobby -COLUMBUS, IN

"Have had to use and understand many different HMI's over the years and the C-more series is by far the most user friendly that I have found. It works naturally well with other AutomationDirect products, but in addition works equally well with other makers' devices."

Bob - FENTON, MI



GET more with C-more®

C-more Operator Panels Overview

Getting started

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

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

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

C-more Selection Guide & Specifications

Specification	Model	6" TFT color w/ base features	6" TFT color w/ full features	7" TFT color w/ base features	7" TFT color w/ full features
Part Number		EA9-T6CL-R	EA9-T6CL	EA9-T7CL-R	EA9-T7CL
Price		\$534.00	\$748.00	\$499.00	\$578.00
Display Actual Size and Type		5.7" TFT color		7.0" TFT color	
Display Viewing Area		4.54" x 3.40" [115.2 mm x 86.4 mm]		6.00" x 3.60" [152.4 mm x 91.4 mm]	
Weight		1.56 lb [710g]	1.59 lb [720g]	1.46 lb [660g]	1.48 lb [670g]
Screen Pixel		320 x 240 (QVGA)		800 x 480 (WVGA)	
Display Brightness		280 nits (typ)		350 nits (typ)	
LCD Panel Dot Pitch		0.18 mm x 0.18 mm		0.190 mm x 0.190 mm	
Color Scale		65,536 colors			
Backlight Average Lifetime*		50,000 hours @ 25°C			
Touch Panel Type**		Four-wire analog resistive, single touch			
Project Memory		26MB			
Number of Screens		Up to 999 screens – limited by project memory			
Realtime Clock		Realtime clock built into panel, backed up for 30 days at 25°C			
Calendar – Month / Day / Year		Yes - monthly deviation 60sec (Reference)			
Serial Port 1		15-pin D-sub female – RS232C, RS-422/485			
Serial Port 2		N/A	3-wire terminal block – RS-485	N/A	3-wire terminal block – RS-485
Serial Port 3		N/A	RJ-12 modular jack – RS-232C	N/A	RJ-12 modular jack – RS-232C
USB Port – Type B		USB 2.0 High speed (480 Mbps) Type B – Download/Program – Max. cable length 15-feet			
USB Port – Type A		USB 2.0 High speed (480 Mbps) Type A – for USB device options – Max. cable length 15-feet – Bus Power – Less than 200mA at 5VDC			
Ethernet Port		N/A	10/100 Base-T, auto MDI/MDI-X		
Ethernet Port - Expansion Module		N/A	EA-ECOM	N/A	EA-ECOM
Audio Line Out		N/A	3.5 mm mini jack – requires amplifier and speaker(s)	N/A	3.5 mm mini jack – requires amplifier and speaker(s)
Mic In (Future)		N/A	3.5 mm mini jack	N/A	3.5 mm mini jack
SD Card Slot		1 slot supports max 2GB (SD,) max 32GB (SDHC)			
HDMI Video Out		N/A			
HDMI Supported Resolution		N/A			
Supply Power		10.2-26.4 VDC Class 2 or SELV (Safety Extra-Low Voltage) Circuit or Limited Energy Circuit (LEC), or use the AC/DC Power Adapter, EA-AC, to power the touch panel from a 100-240 VAC, 50/60 Hz power source. Reverse Polarity Protected			
Power Consumption		16.0 W 1.30 A @ 12VDC 0.66 A @ 24VDC			
Internal Fuse (non-replaceable)		4.0 A			
Altitude		Up to 2000m (6562ft)			
Operating Temperature		0 to 50°C (32 to 122°F) Maximum surrounding air temperature rating: 50°C (122°F) IEC 60068-2-14 (Test Nb, Thermal Shock)			
Storage Temperature		-20 to +60°C (-4 to +140°F) IEC 60068-2-1 (Test Ab, Cold) IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)			
Humidity		5-95% RH (non-condensing)			
Environment		For use in Pollution Degree 2 environment, no corrosive gases permitted			
Noise Immunity		(EN61131-2), EN61000-4-2 (ESD), EN61000-4-3 (RFI), EN61000-4-4 (FTB), EN61000-4-5 (Serge), EN61000-4-6 (Conducted) EN61000-4-8 (Power frequency magnetic field immunity) (Local Test) RFI, (145MHz, 440Mhz 10W @ 10cm), Impulse 1000V @ 1µs pulse			
Withstand Voltage		1000VAC, 1min. (FG to Power supply)			
Insulation Resistance		> 10M ohm @ 500VDC (FG to Power supply)			
Vibration		IEC60068-2-6 (Test Fc)			
Shock		IEC60068-2-27 (Test Ea)			
Emission		EN55011 Class A (Radiated RF emission)			
Enclosure		NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only IP-65 indoor use only (When mounted correctly)		NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only IP-65 (not tested by UL) (When mounted correctly)	
Agency Approvals		UL508, E157382, Class 1, Div 2, Groups A, B, C CE (EN61131-2), RoHS (2011/65/EU) CUL Canadian C22.2		UL61010, E157382 CE (EN61131-2), RoHS (2011/65/EU) CUL Canadian C22.2	

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

**The touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.

C-more Selection Guide & Specifications

Specification	Model	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		\$1,069.00	\$1,380.00	\$733.00
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 x 127.8mm]	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		26MB		
Number of Screens		Up to 999 screens – limited by project memory		
Realtime Clock		Realtime clock built into panel, backed up for 30 days at 25°C		
Calendar – Month / Day / Year		Yes - monthly deviation 60sec (Reference)		
Serial Port 1		15-pin D-sub female – RS232C, RS-422/485		
Serial Port 2		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.

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C-more Selection Guide & Specifications

Specification	Model	12" TFT color w/ full features	15" TFT color w/ base features	15" TFT color w/ full features
Part Number		EA9-T12CL	EA9-T15CL-R	EA9-T15CL
Price		\$1,917.00	\$1,391.00	\$2,140.00
Display Actual Size and Type		12.1" TFT color	15.0" TFT color	
Display Viewing Area		9.69" x 7.26" (246.0 mm x 184.5 mm)	11.97" x 8.98" (304.1 mm x 228.0 mm)	
Weight		4.89 lb [2200g]	6.46 lb (2930g)	6.50 lb [2950g]
Screen Pixel		800 x 600 (SVGA)	1024 x 768 (XGA)	
Display Brightness		280 nits (typ)		
LCD 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		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	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
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	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)
Mic 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)		
HDMI Video Out		HDMI Type A Port	N/A	HDMI Type A Port
HDMI Supported Resolution		800 x 600 (SVGA)	N/A	1024 x 768 (XGA)
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		21.0 W 1.75 A @ 12VDC 0.88 A @ 24VDC	29.0 W 2.40 A @ 12VDC 1.20 A @ 24VDC	
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		

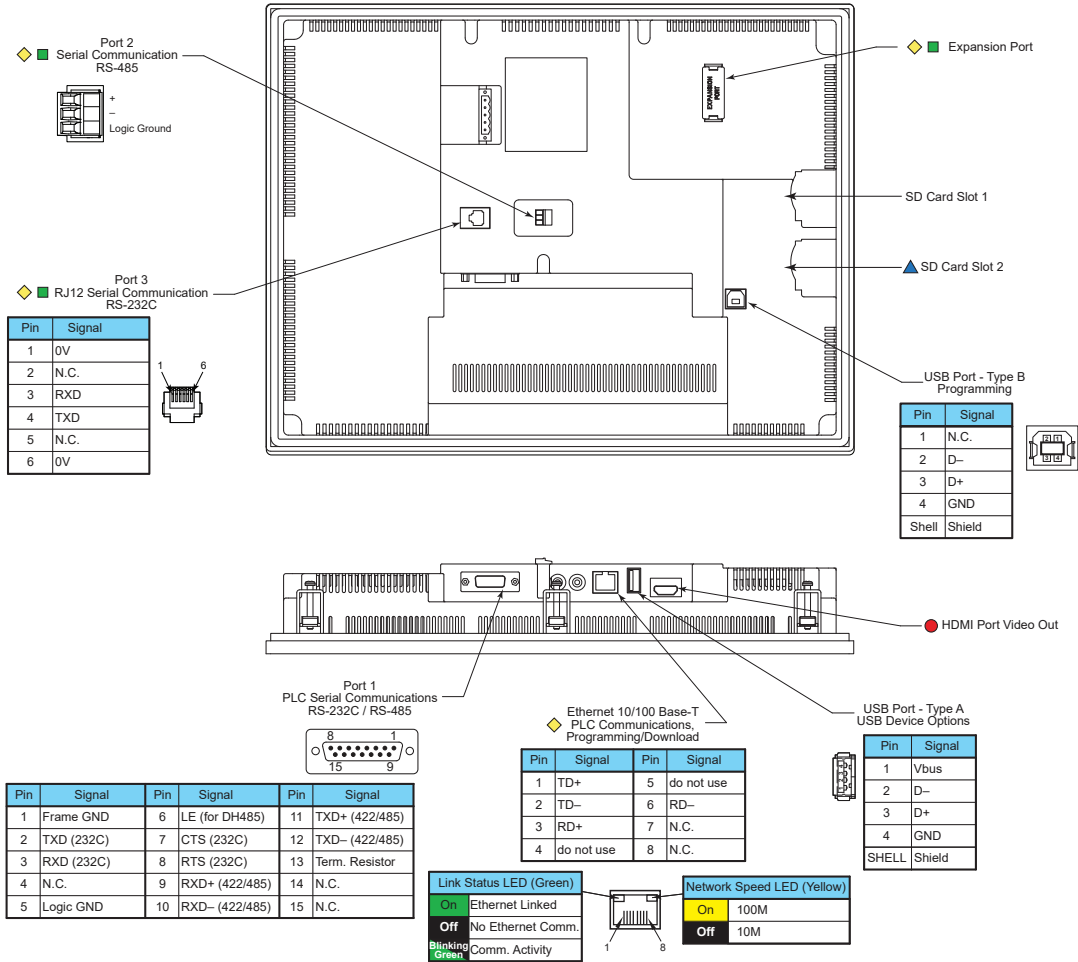
NOTES: *The backlight average lifetime is defined as the average usage time it takes before the brightness becomes 50% of the initial brightness. The lifetime of the backlight depends on the ambient temperature. The lifetime will decrease under low or high temperature usage.

**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 Selection Guide & Specifications

Specification	Model	EA9 Headless HMI
Part Number		EA9-RHMI
Price		\$409.00
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
Ethernet Port		10/100 Base-T, auto MDI/MDI-X
Ethernet Port - Expansion Module		EA-ECOM
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)
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 Environment		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		EN55011 Class A (Radiated RF emission)
Agency Approvals		UL61010, E157382 CE (EN61131-2), RoHS (2011/65/EU) CUL Canadian C22.2

C-more Communication Ports



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

Ethernet Port

The Ethernet port has several uses:

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

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

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

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

Expansion Port

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

USB Port B

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

USB Port A

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

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

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

Sound Interface (Audio Line Out)

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

Serial Port

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

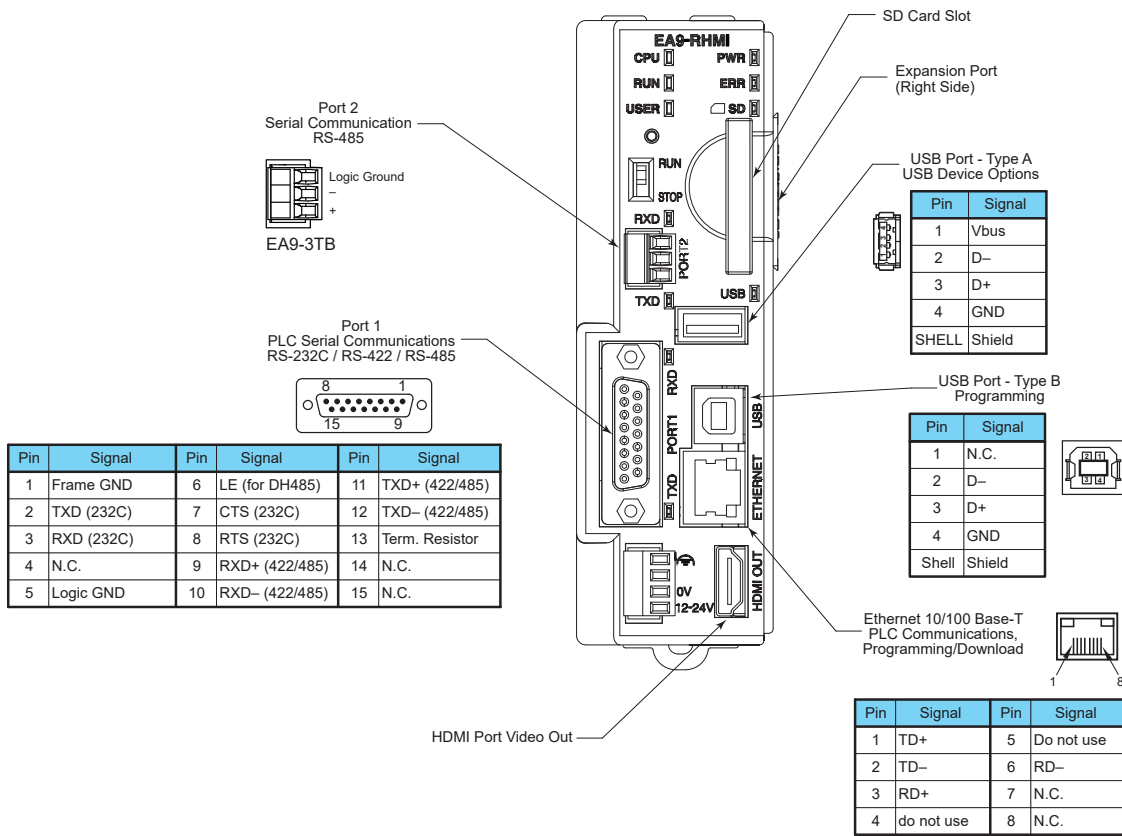
Port 2 - Connect your RS-485 network via Port 2. Port 2 is provided with a 3-wire removable terminal block.

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

HDMI Video Out

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

C-more 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 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.

Expansion Port

The expansion port supports the EA-ECOM 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 (USB-FLASH)
- 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

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

EA9-RHMI 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

C-more Communication Protocols & Cables

Compatibility Table				
PLC Family	Model	Protocols		
Allen-Bradley	MicroLogix 1000, 1100, 1200, 1400, 1500, SLC 5-01/02/03	DH485/AIC/AIC+		
	MicroLogix 1000, 1100, 1200, 1400 and 1500 SLC 5-03/04/05	DF1 Half Duplex; DF1 Full Duplex		
	ControlLogix™, CompactLogix™, FlexLogix™	DF1 Full Duplex		
	PLC-5	DF1 Full Duplex		
	ControlLogix, CompactLogix, FlexLogix - Tag Based	DF1 Half Duplex; DF1 Full Duplex		
	ControlLogix, CompactLogix, FlexLogix - Generic I/O Messaging	EtherNet/IP Server		
	ControlLogix, CompactLogix, FlexLogix - Tag Based	EtherNet/IP Client		
	Micrologix 1100, 1400 & SLC5/05, all via native Ethernet port	EtherNet/IP Client		
	MicroLogix 1000, 1100, 1200, 1400, 1500 & SLC 5-03/04/05, all via ENI Adapter	Modbus RTU		
	Micro 800 series	Modbus TCP		
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	AutomationDirect P3000 Serial AutomationDirect P3000 Ethernet		
Do-more	all	Do-more Serial Do-more Ethernet		
CLICK	all	AutomationDirect Modbus (CLICK)		
DirectLOGIC	DL05/DL06	all	K-Sequence Direct NET Modbus (Koyo addressing)	
		H0-ECOM/H0-ECOM100	Direct LOGIC Ethernet	
	DL105	all	K-Sequence	
		D2-230	K-Sequence	
	DL205	D2-240	K-Sequence Direct NET	
		D2-250/D2-250-1/D2-260/D2-262	K-Sequence Direct NET Modbus (Koyo addressing)	
		D2-240/D2-250-1/D2-260 using D2-DCM	Direct NET Modbus (Koyo addressing)	
		H2-ECOM/H2-ECOM100	Direct LOGIC Ethernet	
		DL305	D3-330/330P (Requires the use of a Data Communications Unit)	Direct NET
			D3-340	Direct NET K-Sequence
	D3-350		Direct NET Modbus (Koyo addressing)	
	D3-350 using D3-DCM		Direct NET Modbus (Koyo addressing)	
	DL405	D4-430	K-Sequence Direct NET	
		D4-440	K-Sequence Direct NET	
		D4-450/D4-454	K-Sequence Direct NET Modbus (Koyo addressing)	
		All with D4-DCM	Direct NET 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
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	\$21.50
Communication cable, 15-pin male D-sub to 15-pin D-sub HD15 male, shielded, 3m/9.8ft cable length. For use with <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.	EA-2CBL-1	\$22.00
Communication cable, 15-pin male D-sub to 4-pin RJ11, shielded, 3m/9.8ft cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and a D3-340 CPU top or bottom port.	EA-3CBL	\$21.50
Communication cable, 15-pin male D-sub to 15-pin male D-sub, shielded, 3m/9.8ft cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and a DL405 (top port) CPU.	EA-4CBL-1	\$21.50
Communication cable, 15-pin male D-sub to 25-pin male D-sub, shielded, 3m/9.8ft cable length. For use with <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.	EA-4CBL-2	\$22.50
Communication cable, 15-pin male D-sub to 8-pin male mini DIN, shielded, 3m/9.8ft cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and an Allen-Bradley Micrologix CPU.	EA-MLOGIX-CBL	\$33.00
Communication cable, 15-pin male D-sub to 9-pin female D-sub, shielded, 3m/9.8ft cable length. For use with <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	\$21.50
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 DF-1 port.	EA-PLC5-232-CBL	\$21.50
Communication cable, 15-pin male D-sub to 6-pin RJ45, shielded, 3m/9.8ft cable length. For use with <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.	EA-DH485-CBL	\$21.00
Communication cable, 15-pin male D-sub to 15-pin male D-sub, shielded, 3m/9.8ft cable length. For use with <i>C-more</i> or <i>C-more</i> Micro and GE Fanuc Series 90/30 or 90/70 serial port.	EA-90-30-CBL	\$21.50
Communication cable, 15-pin male D-sub to 25-pin male D-sub, 3m/9.8ft cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and a Mitsubishi FX Series CPU.	EA-MITSU-CBL	\$21.50
Communication cable, 15-pin male D-sub to 8-pin male mini DIN, shielded, 3m/9.8ft cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and a Mitsubishi FX Series CPU.	EA-MITSU-CBL-1	\$21.50
Communication cable, 15-pin male D-sub to 25-pin male D-sub, shielded, 3m/9.8ft cable length. For use with <i>C-more</i> or <i>C-more</i> Micro panel and an Omron C200 or C500 CPU.	EA-OMRON-CBL	\$21.50

Example Cables:

EA-2CBL



EA-2CBL-1

