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 <u>EA9-PGMSW</u>
- **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		
Number	Description	Price
EA9-T6CL-R	C-more EA9 series touch screen HMI, 6in color TFT LCD, analog resistive, 320 x 240 pixel, QVGA, LED backlight, (1) serial, (2) USB ports and (1) memory card slot.	\$718.00
EA9-T6CL	C-more EA9 series touch screen HMI, 6in color TFT LCD, analog resistive, 320 x 240 pixel, QVGA, LED backlight, (3) serial, (1) Ethernet, (2) USB ports, (1) memory card slot and (1) audio line out.	\$994.00
EA9-T7CL-R	C-more EA9 series touch screen HMI, 7in color TFT LCD, analog resistive, widescreen, 800 x 480 pixel, WVGA, LED backlight, (1) serial, (1) Ethernet, (2) USB ports and (1) memory card slot.	\$688.00
<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.	\$794.00
EA9-T8CL	C-more EA9 series touch screen HMI, 8in color TFT LCD, analog resistive, 800 x 600 pixel, SVGA, LED backlight, (3) serial, (1) Ethernet, (2) USB ports, (1) memory card slot and (1) audio line out.	\$1,383.00
EA9-T10CL	C-more EA9 series touch screen HMI, 10in color TFT LCD, analog resistive, 800 x 600 pixel, SVGA, LED backlight, (3) serial, (1) Ethernet, (2) USB ports, (1) memory card slot and (1) audio line out.	\$1,778.00
EA9-T10WCL	C-more EA9 series touch screen HMI, 10in color TFT LCD, analog resistive, widescreen, 1024 x 600 pixel, WSVGA, LED backlight, (3) serial, (1) Ethernet, (2) USB ports, (1) memory card slot and (1) audio line out.	\$986.00
EA9-T12CL	C-more EA9 series touch screen HMI, 12in color TFT LCD, analog resistive, 800 x 600 pixel, SVGA, LED backlight, (3) serial, (1) Ethernet, (2) USB ports, (2) memory card slots, (1) HDMI video out and (1) audio line out.	\$1,545.00
EA9-T15CL-R	C-more EA9 series touch screen HMI, 15in color TFT LCD, analog resistive, 1024 x 768 pixel, XGA, LED backlight, (1) serial, (1) Ethernet, (2) USB ports and (2) memory card slots.	\$1,830.00
EA9-T15CL	C-more EA9 series touch screen HMI, 15in color TFT LCD, analog resistive, 1024 x 768 pixel, XGA, LED backlight, (3) serial, (1) Ethernet, (2) USB ports, (2) memory card slots, (1) HDMI video out and (1) audio line out.	\$2,803.00
EA9-RHMI	C-more EA9 series headless HMI, (2) serial, (1) Ethernet and (2) USB ports, (1) HDMI audio/video out and (1) memory card slot.	\$521.00
EA9-PGMSW	C-more Windows programming software, USB or free download. For use with C-more EA9 series touch panels. Requires USB or Ethernet connection to touch panel.	\$13.00 on USB, or FREE download
USB-CBL-AB3	AutomationDirect programming cable, USB A to USB B, 3ft cable length. For use with <i>C-more</i> HMIs, Do-more and Productivity series CPUs and most USB devices.	\$12.00
USB-CBL-AB6	AutomationDirect programming cable, USB A to USB B, 6ft cable length. For use with <i>C-more</i> HMIs, Do-more and Productivity series CPUs and most USB devices.	\$16.00
USB-CBL-AB10	AutomationDirect programming cable, USB A to USB B, 10ft cable length. For use with <i>C-more</i> HMIs, Do-more and Productivity series CPUs and most USB devices.	\$36.50
USB-CBL-AB15	AutomationDirect programming cable, USB A to USB B, 15ft cable length. For use with <i>C-more</i> HMIs, Do-more and Productivity series CPUs and most USB devices.	\$42.50

www.automationdirect.com Operator Interface tCME-1

Model	A11	A		
Model	6" TFT color	6" TFT color w/ full features	7" TFT color w/ base features	7" TFT color w/ full features
Specification	w/ base features			
Part Number	EA9-T6CL-R	EA9-T6CL	EA9-T7CL-R	EA9-T7CL
Price	\$718.00 \$994.00		\$688.00 \$794.00	
Display Actual Size and Type	5.7" TFT color		7.0" TFT color	
Display Viewing Area	[115.2 mm	x 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		0 (QVGA)	800 x 480 (WVGA)	
Display Brightness	280 ni		350 nits (typ)	
LCD Panel Dot Pitch	0.18 mm	x 0.18 mm		x 0.190 mm
Color Scale		65,536		
Backlight Average Lifetime*		50,000 hou		
Touch Panel Type**	00	Four-wire analog re		MD
Project Memory	26	MB	-	MB
Number of Screens		Up to 999 screens – lim		
Realtime Clock		Realtime clock built into panel,	backed up for 30 days at 25°C	
Calendar – Month / Day / Year		Yes - monthly deviation	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	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 2000)m (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 (no		
Environment		For use in Pollution Degree 2 enviro		
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		
Insulation Resistance		> 10M ohm @ 500VDC		
Vibration			11.47	
Shock		IEC60068-2-6 (Test Fc) 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 CUL Canadian C22.2			
NOTES: *The backlight ave	vana lifatima ia dafinad aa	(b	leas bafava tha buimbtusas	

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.

www.automationdirect.com

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	\$1,383.00	\$1,778.00	\$986.00	
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"	8.31" x 6.24"	8.77" x 4.93"	
, ,	[170.4 mm x127.8mm]	[211.2 mm x 158.4 mm]	[222.7 mm x 125.3 mm]	
Weight	2.93 lb [1330g]	4.19 lb [1900g]	2.43 lb [1100g]	
Screen Pixel	800 x 600 (SVGA) 1024 x 600 (WSVGA)			
Display Brightness	310 nits (typ) 280 nits (typ) 240 nits (typ)			
LCD Panel Dot Pitch	0.213 mm x 0.213 mm 0.264 mm x 0.264 mm 0.218 mm x 0.209 mm			
Color Scale		65,536 colors		
Backlight Average Lifetime*		50,000 hours @ 25°C		
Touch Panel Type**		Four-wire analog resistive, single touch		
Project Memory		43MB		
Number of Screens		Up to 999 screens – limited by project memory		
Realtime Clock	Real	time 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			
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	1.50 A	18.0 W 17.0W 50 A @ 12VDC 1.42A @ 12 VDC 75 A @ 24VDC 0.71A @ 24 VDC		
Internal Fuse (non-replaceable)		6.3 A		
Altitude		Up to 2000m (6562ft)		
Operating Temperature		rrounding air temperature rating: 50°C (122°F) IEC		
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		Pollution Degree 2 environment, no corrosive gase	<u>'</u>	
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 f0requency magnetic field immunity) (Local Test)			
Mithotond Voltono	RFI, (145MHz, 440Mhz 10W @ 10cm), Impulse 1000V @ 1µs pulse 1000VAC, 1min. (FG to Power supply)			
Withstand Voltage		> 10M ohm @ 500VDC (FG to Power supply)		
Insulation Resistance				
Vibration Shock	IEC60068-2-6 (Test Fc)			
Emission	IEC60068-2-27 (Test Ea) EN55011 Class A (Radiated RF emission)			
	NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only			
Enclosure	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.

www.automationdirect.com Operator Interface tCME-3

Model Specification	12" TFT color w/ full features	15" TFT color w/ base features	15" TFT color w/ full features	
	EA9-T12CL	EA9-T15CL-R	EA9-T15CL	
Part Number Price	\$1,545.00	\$1,830.00	\$2,803.00	
	. ,	. ,	1 \$2,003.00 FT color	
Display Actual Size and Type	12.1" TFT color 9.69" x 7.26"		x 8.98"	
Display Viewing Area	[246.0 mm x 184.5 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 7	68 (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		43MB		
Number 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	
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, <u>EA-AC</u> , 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		Pollution Degree 2 environment, no corrosive gase	. •	
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			
Agency Approvals	IP-65 indoor use only (When mounted correctly) UL508, E157382 CE (EN61131-2), RoHS (2011/65/EU)			
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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.

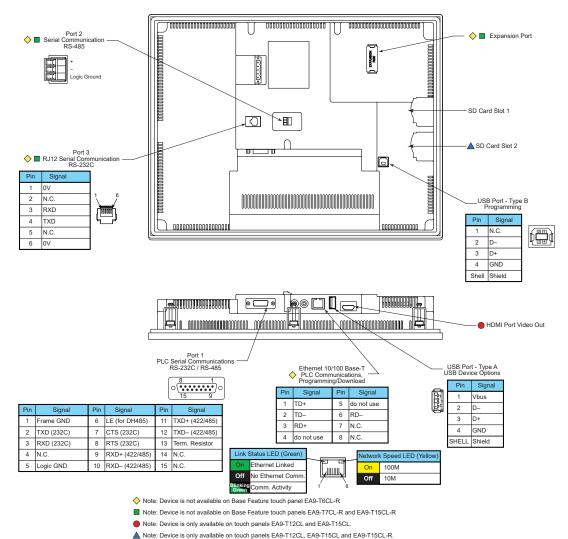
**The touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.

www.automationdirect.com Operator Interface tCME-4

Specification	EA9 Headless HMI
Part Number	EA9-RHMI
Price	\$521.00
	No Display
Display	7 - 7
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 2.0 High speed (480 Mbps) Type A - for USB device options
USB Port – Type A	OSB 2.0 riigh speed (400 mpps) Type A - for OSB 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)
Operating remperature	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): 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)
	UL61010, E157382
Agency Approvals	CE (EN61131-2), RoHS (2011/65/EU) CUL Canadian C22.2

www.automationdirect.com **Operator Interface**

C-more Communication Ports



Ethernet Port

The Ethernet port has several uses:

- · Download program to panel
- Communicate to PLCs/PCs
- Send e-mail
- Access FTP server
- Act as a Webserver (Secure HTTPs)
- Remote Internet access

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

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

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

Expansion Port

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

USB Port B

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

USB Port A

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

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

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

Sound Interface (Audio Line Out)

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

Serial Port

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

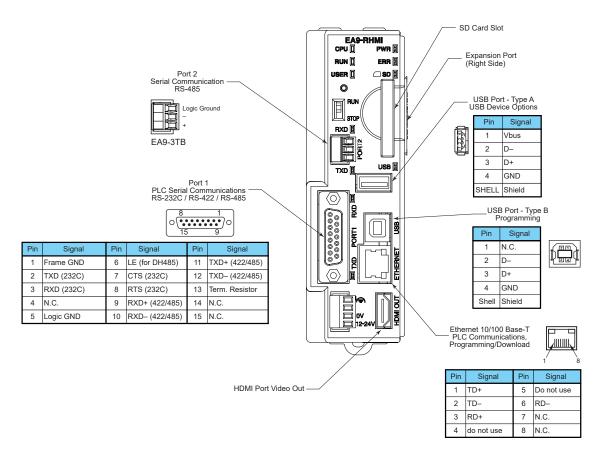
Port 2 - Connect your RS-485 network via Port 2. Port 2 is provided with a 3-wire removable terminal block.

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

HDMI Video Out

<u>EA9-T12CL</u> and <u>EA9-T15CL</u> 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 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

<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

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1-800-633-0405 C-more Communication Protocols & Cables

DI C Esmily	· ·	ompatibility Table	Drotocolo	
PLC Family	Microl ogiv 1000 111	Model 00, 1200, 1400, 1500,	Protocols	
	ISLC 5-/01/02/03		DH485/AIC/AIC+	
	MicroLogix 1000, 110 SLC 5-/03/04/05	00, 1200, 1400 and 1500] DF1 Half Duplex; DF1 Full Duple	
	ControlLogix™, Com	npactLogix™, FlexLogix™	Di Triali Duplex, Di Triuli Duple	
	PLC-5		DF1 Full Duplex	
	ControlLogix, CompactLogix, FlexLogix - Tag Based		DF1 Half Duplex; DF1 Full Duple	
Allen-Bradley	ControlLogix, CompactLogix, FlexLogix - Generic I/O Messaging		EtherNet/IP Server	
	ControlLogix, Compa	ng actLogix, FlexLogix - Tag		
	Based	0 & 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			
		ла Етт лаартег	Modbus RTU	
	Micro 800 series		Modbus TCP	
	Micro 800 series - Ta	ng Based	DF1 Full Duplex	
			EtherNet/IP Client	
Modbus RTU	Modbus RTU device	S	Modbus RTU	
Modbus TCP/II	Modbus TCP/IP devi	ces	Modbus TCP/IP	
GE	90/30, 90/70, Micro 9	90, VersaMax Micro	SNPX	
J	90/30, Rx3i		SRTP Ethernet	
	FX Series	21211 02511	FX Direct	
Mitsubishi	Q02, Q02H, Q06H, 0 Q, QnA Serial	д IZП, QZ5H	Q CPU	
	Q, QnA Senai			
	C200 Adapter, C500		Host Link FINS	
Omron	CJ1/CS1 Serial, CJ1	/CS1 Ethernet	FINS	
Modicon	984 CPU, Quantum	113 CPU, AEG Modicon Micro -xx, 411-xx, 512-xx, 612-xx	Modbus RTU	
	S7-200 CPU, RS-48			
Siemens	S7-200 CPU, S7-300	CPU, S7-400, S7-1200 CPU,		
	\$7-1500; Ethernet		Productivity Serial	
•	all		,	
Series			Productivity Ethernet Do-more Serial	
Do-more	all		Do-more Ethernet	
			Modbus (CLICK addressing)	
CLICK	all		Modbus TCP (CLICK addressing	
		all	K-Sequence	
	DL05/DL06		DirectNET	
		110 F00M/110 F00M400	Modbus (Koyo addressing)	
	DL105	H0-ECOM/H0-ECOM100	Direct LOGIC Ethernet K-Sequence	
	DL103	D2-230	K-Sequence	
			K-Sequence	
		D2-240	DirectNET	
		D2 250/D2 250 4/D2 260/	K-Sequence	
	DL205	D2-250/D2-250-1/D2-260/ D2-262	DirectNET	
Productivity Series Do-more CLICK			Modbus (Koyo addressing)	
		D2-240/D2-250-1/D2-260 using D2-DCM	DirectNET Modbus (Koyo addressing)	
		H2-ECOM/H2-ECOM100	Modbus (Koyo addressing) Direct LOGIC Ethernet	
		D3-330/330P		
		(Requires the use of a Data Communications Unit)	DirectNET	
		D3-340	DirectNET	
Direct LOGIC	DL305		K-Sequence	
	DESUS	D3-350	DirectNET	
			Modbus (Koyo addressing)	
		D3-350 using D3-DCM	DirectNET	
			Modbus (Koyo addressing)	
		D4-430	K-Sequence DirectNET	
			K-Sequence	
		D4-440	DirectNET	
	DI 405		K-Sequence	
	DL405	D4-450/D4-454	DirectNET	
			Modbus (Koyo addressing)	
		All with D4-DCM	DirectNET	
			Modbus (Koyo addressing)	
	H2-WinPLC (Think 8	H4-ECOM/H4-ECOM100 Do) Live V5.2 or later and	Direct LOGIC Ethernet Think & Do Modbus RTU	
	Studio any version	Do) Live V5.5.1 or later and	(serial port) Think & Do Modbus TCP/IP	

Cable Description	Cable Part Number	Price
AutomationDirect 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.	EA-2CBL	\$31.00
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>	\$31.50
AutomationDirect 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	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>	\$31.00
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.	EA-4CBL-2	\$32.00
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 an Allen-Bradley Micrologix CPU.	EA-MLOGIX-CBL	\$47.50
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.	EA-SLC-232-CBL	\$31.00
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.	EA-PLC5-232-CBL	\$31.00
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.	EA-DH485-CBL	\$30.50
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.	EA-90-30-CBL	\$31.00
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 a Mitsubishi FX Series CPU.	EA-MITSU-CBL	\$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.	EA-MITSU-CBL-1	\$31.00
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.CBL	EA-OMRON-CBL	\$31.00

Example Cables:

