



Use HDMI displays up
to HD 1280x720
or no local display at all if
you prefer to use your PC
or mobile device.

Expand your Audience

Only:

C-more Headless HMI (EA9-RHMI)

HMI's are no longer confined to the enclosure door! With the **C-more** EA9-RHMI headless HMI you can display your factory floor data how and where you choose. The EA9-RHMI has all the powerful functionality of the **C-more** Touch Panel HMI's, without display size restrictions. This HDMI-enabled device works with televisions, monitors, projectors, and most any other HDMI display device of any size to display real-time operational data or messages. The integrated USB ports allows support for industrial touch screen monitor displays that support USB interface or USB mouse operations.

- All the functionality of a C-more Touch Panel without the display size limitation
- HDMI Video/Audio output with multiple resolutions
 - VGA 640x480, SD 720x480, XGA 1024x768, HD 1280x720
 - Audio is also supported via the HDMI connection
- Compatible with ELO and EETI eGalax Single Touch Resistive and eGalax Protective Capacitive Touchscreens
 - The USB A port allows support for most industrial touch screen monitors in the market
- Multiple connections
 - Ethernet and RS-232/422/485 serial ports support programming and device connections
 - USB-B port for programming, monitoring and configuration
 - USB-A port for USB HID devices such as USB hub, pen drives, touch screen displays, keyboard, mouse and bar-code scanners
 - SD card slot for log files, project memory or graphic media
- 82MB of user memory

3-pin RS485 Port

RS232, RS422/485
Serial Port

SD Card Port

USB-A port

USB-B Port

RJ45 Ethernet Port

HDMI Video/
Audio Out

The **C-more** EA9 software platform is the most user friendly and time-saving software platform that allows for simple visualization of your valuable system data. The alarming, data logging, and email support allow you to collect and share important data to other users and devices. The two serial ports and a 10/100Base-T Ethernet port has support for all the major protocols and enables easy connections to multiple devices simultaneously.

Add an additional Ethernet
port to your EA9-RHMI for
only with the
EA-ECOM module

- Easily attaches to the side of the EA9-RHMI
- 1) 10/100 Base-T Ethernet Auto MDI/MDI-X RJ45 Port
- No external power supply required
- Supports all C-more Ethernet drivers

EA9-RHMI



Keep Your Personnel Aware of Critical Events No Matter Where They Are

The Event Manager within the C-more programming software goes beyond simple alarm and message functions and allows C-more to act based on random events like changing tag values, or periodic events like day-of-week, time-of-day, or even based on a screen change. The actions can include setting a tag value, copying tag data between tags, changing the screen, capturing a screen, playing a sound file, even sending e-mail (including embedded tag data, screen captures, or PLC log files).

With the EA9-RHMI this critical event data isn't restricted to a display on an enclosure in the factory somewhere, but it can be displayed in the board room, lunch room, or any other location you decide to ensure complete awareness around your facility.

You can also skip the local display entirely by using the remote access feature. Remote access is available from any windows PC (web browser) or on Apple iOS and Android smartphones and tablets when using the C-more Remote HMI mobile app.



**Supports HDMI to a TV
or monitor to display
real-time production data and
machine status**



**FREE C-more
Remote HMI App**

Get remote
access and
control on
the go!
Available now

Available on the
App Store

GET IT ON
Google play

Available at
amazon



See your
factory floor data
anywhere, anytime!



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, 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.	
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

Specification	Model	EA9 Headless HMI
Part Number		EA9-RHMI
Price		
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		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 EA9-RHMI Headless HMI

EA9-RHMI



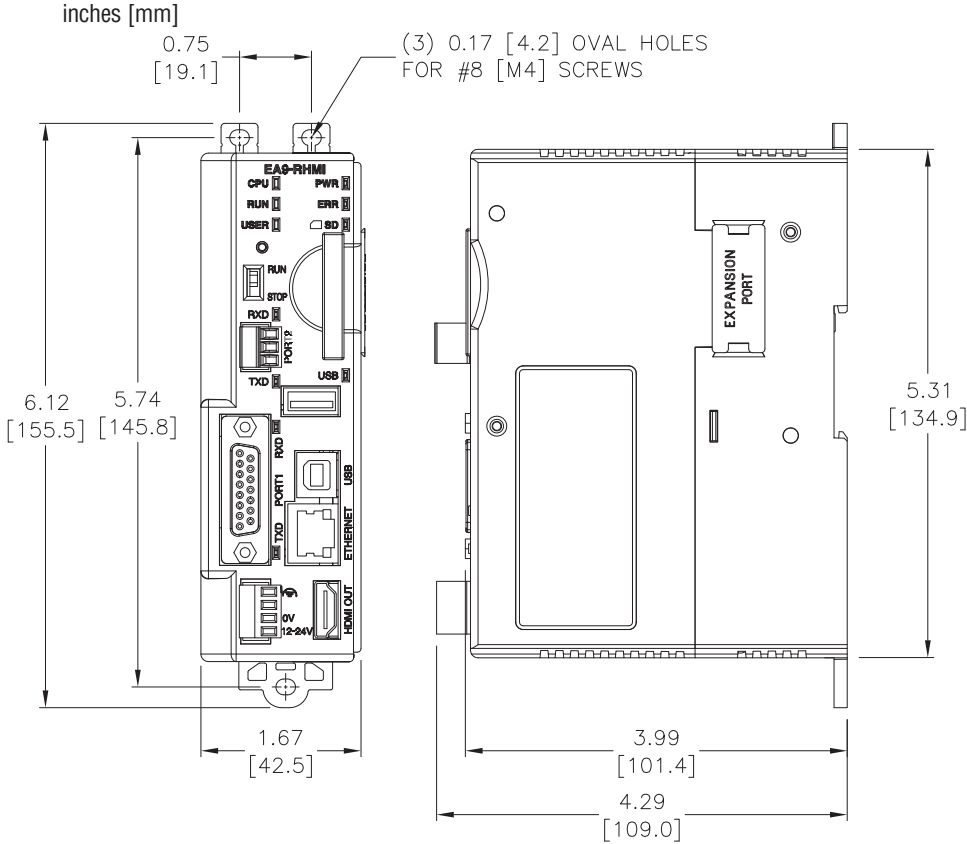
C-more EA9 series headless HMI supports HD 1280 x 720 (60Hz) pixel screen resolution HDMI output, 800MHz CPU, 12-24 VDC powered, includes (2) serial ports, USB 2.0 Type A and B ports and one Ethernet port. Supports (1) SD memory card. Compatible with EA9-PGMSW programming software version 6.50 or later.



Features

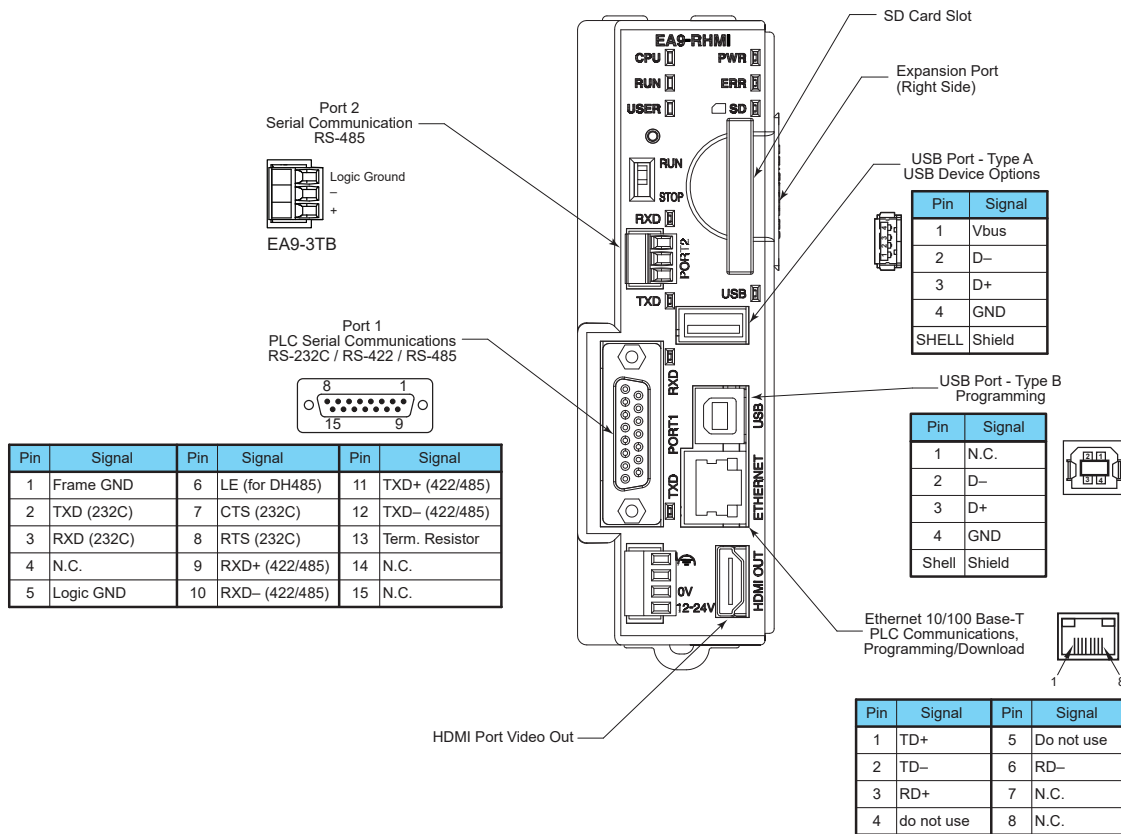
- Ethernet 10/100 Base-T port (program/download & PLC communication)
- Expansion Module Support
- Use EA-ECOM for second Ethernet Port
- Remote Internet access
- Serial PLC interface (RS-232/422/485)
- One built-in SD memory card slot
- 12–24 VDC powered
- HDMI audio/video out
- 82MB project memory
- Data logging
- 0 to 50°C [32 to 122°F] operating temperature range
- DIN rail mountable
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase

Dimensions



See our website for complete engineering drawings.

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	DF1 Half Duplex; DF1 Full Duplex
	SLC 5-03/04/05	DF1 Full Duplex
	ControlLogix™, CompactLogix™, FlexLogix™	DF1 Full Duplex
	PLC-5	DF1 Half Duplex; DF1 Full Duplex
	ControlLogix, CompactLogix, FlexLogix - Tag Based	EtherNet/IP Server
	ControlLogix, CompactLogix, FlexLogix - Generic I/O Messaging	EtherNet/IP Client
	ControlLogix, CompactLogix, FlexLogix - Tag Based	EtherNet/IP Client
	Micrologix 1100, 1400 & SLC5/05, all via native Ethernet port	Modbus RTU
	MicroLogix 1000, 1100, 1200, 1400, 1500 & SLC 5-03/04/05, all via ENI Adapter	Modbus TCP
Modbus RTU	Modbus RTU devices	Modbus RTU
	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
Do-more	all	AutomationDirect P3000 Ethernet
	all	Do-more Serial
CLICK	all	Do-more Ethernet
DirectLOGIC	DL05/DL06	all
		H0-ECOM/H0-ECOM100
	DL105	all
		H0-ECOM/H0-ECOM100
	DL205	D2-230
		D2-240
		D2-250/D2-250-1/D2-260/D2-262
		D2-240/D2-250-1/D2-260 using D2-DCM
		H2-ECOM/H2-ECOM100
	DL305	D3-330/330P (Requires the use of a Data Communications Unit)
		D3-340
		D3-350
		D3-350 using D3-DCM
		D4-430
		D4-440
		D4-450/D4-454
		All with D4-DCM
		H4-ECOM/H4-ECOM100
		H2-WinPLC (Think & Do) Live V5.2 or later and Studio any version
		H2-WinPLC (Think & Do) Live V5.5.1 or later and Studio V7.2.1 or later

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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	

Example Cables:

EA-2CBL



EA-2CBL-1



C-more Computer Programming Connections

Using the **C-more** Programming Software EA9-PGMSW for project development, the HMI can be connected to a PC (personal computer) in one of several ways:

- Connect a USB Programming Cable such as (USB-CBL-AB15) from a USB port type A on the PC to the USB type B programming port on the C-more HMI. The USB connection is for direct connection only and does not support USB hubs.
- Connect the **C-more** HMI to a PC with a Cat5 Ethernet cable via an Ethernet switch. Multiple **C-more** HMIs can be programmed in this configuration.

Following are the minimum system requirements for running **C-more** Programming Software, p/n EA9-PGMSW, on a PC:

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

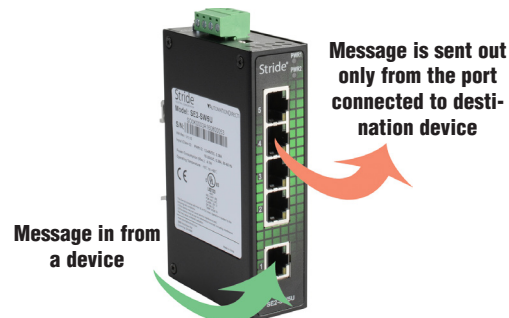
USB Programming Cable



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



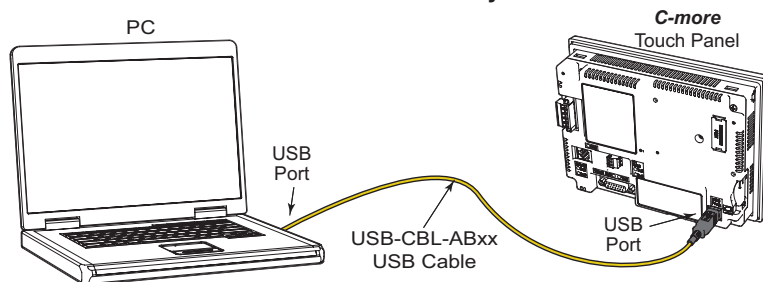
Part No. SE2-SW5U

NOTE: Regarding Ethernet access to a C-more HMI.

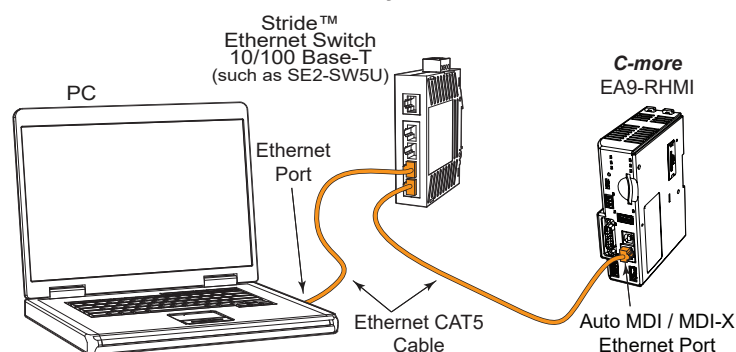
If you intend to take advantage of the methods of remote access to the HMI, including the web server, PC remote access, FTP, iPhone or iPad app, you need to consider the security exposure in order to minimize the risks to your process and your C-more HMI.

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.

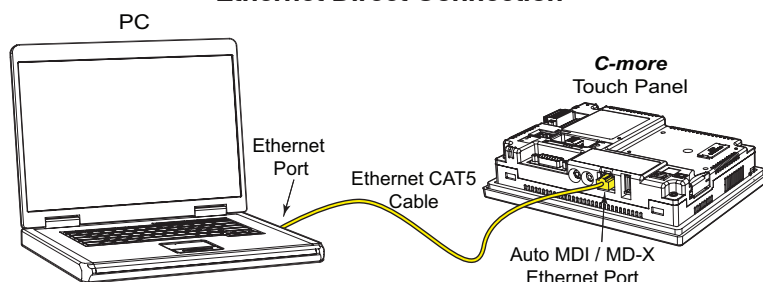
USB Connectivity



Ethernet Connectivity via a Hub or Switch



Ethernet Direct Connection



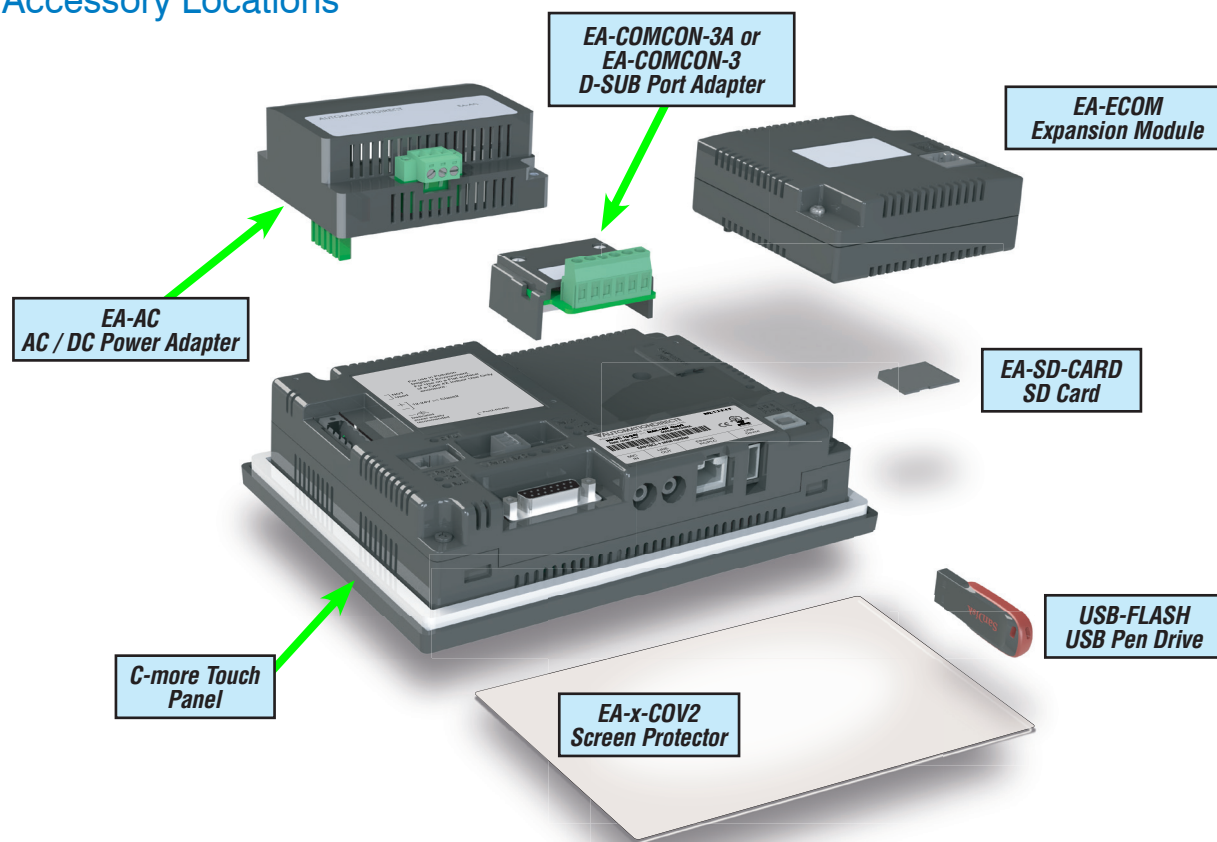
C-more Accessories

Accessories

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

Part Number	Description	Price
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 <i>C-more</i> and <i>C-more</i> 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.	

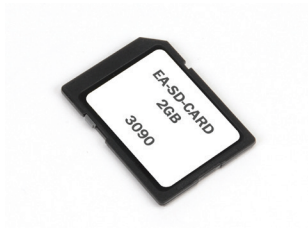
Accessory Locations



C-more Accessories

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	
<i>Operating Temperature</i>	0 to 70°C (32 to 158°F)
<i>Humidity</i>	20 to 85% (non-condensing)
<i>Capacity</i>	2GB
<i>Speed Modes</i>	High-Speed Normal-Speed
<i>Interface</i>	SD Memory Card Specification Ver. 3.0
<i>Speed Class</i>	Class 6

USB Flash Drive

USB-FLASH



USB flash drive for non-volatile storage, 32GB. Recommended for the *C-more* EA9 series touch panels.

Communication Expansion Module

EA-ECOM Ethernet Communication Module

The EA-ECOM communication module is compatible with EA3 series **C-more** Micro 6-inch, 8-inch and 10-inch panels and most **C-more** panels. It adds an Ethernet (RJ45) port for programming and PLC communications at 10/100 Mbps. **C-more** Micro Software and firmware version 4.0 or later is required. **C-more** Software and firmware version 6.50 or later is required.

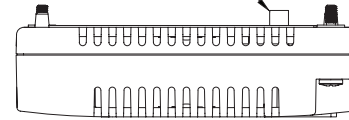
Part No. EA-ECOM



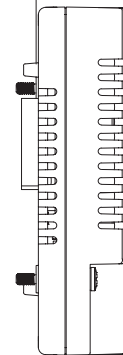
Dimensions

Units: inches [mm]

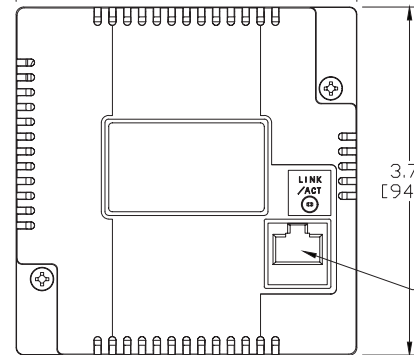
PANEL CONNECTION



0.98
[24.8]



3.62
[92.0]



3.70
[94.0]

ETHERNET

Ethernet Communication Interface Specifications	
Standard Specification	Conforms to IEEE802.3
Communication Speed	10/100 Base-T (Automatic Negotiation)
Cable Specification	Category 5
Auto MDI / MDI-X	Yes
Connector Type	RJ45

Communication Drivers	
C-more	C-more Micro
Supports all C-more Ethernet drivers	AutomationDirect Productivity Series Ethernet
	AutomationDirect Do-more / BRX Ethernet
	AutomationDirect CLICK Ethernet
	AutomationDirect ECOM Ethernet
	Modbus TCP/IP
	Allen-Bradley EtherNet/IP (Client) SLC5/05
	Allen-Bradley EtherNet/IP (Client) ENI Adapter
	Allen-Bradley EtherNet/IP (Client) MicroLogix 1100/1400
	Allen-Bradley EtherNet/IP (Client) control/CompactLogix (SLC Mapping only)



Link Status LED (Green)	
On	Ethernet Linked
Off	No Ethernet Comm.
Blinking Green	Comm. Activity


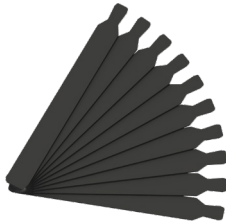




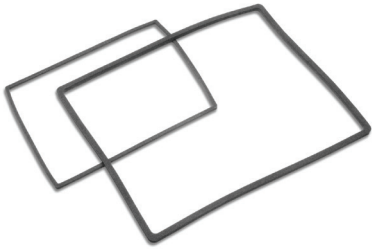


EA-ECOM Specifications	
Part Number	EA-ECOM
Operating Temperature	0 to 50 °C (32 to 122 °F) Maximum surrounding air temperature rating: 50 °C
Storage Temperature	-20 to +60 °C (-4 to +140 °F)
Humidity	5-95% RH (non-condensing)
Environmental Air	For use in pollution degree 2 environment
Vibration	IEC60068-2-6 (Test Fc), 5-9 Hz: 3.5 mm amplitude, 9-150 Hz: 1.0G, sweeping, at a rate of 1 octave/min. (±10%), 10 sweep cycles per axis on each of 3 mutually perpendicular axes
Shock	IEC60068-2-27 (Test Ea), 15 G peak, 11ms duration, three shocks in each direction per axis, on 3 mutually perpendicular axes (total of 18 shocks)
Noise Immunity	NEMA ICS3-304 RFI, (145 MHz, 440 MHz 10 W @ 10 cm) Impulse 1000 V @ 1 µs pulse
Emission	EN55011 Class A (Radiated RF emission)
Enclosure (panel door installation)	NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only IP-65 indoor use only (When mounted correctly)
Agency Approvals	CE (EN61131-2), UL508, CUL Canadian C22.2 To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page
Mounting Torque	50 oz-in [0.35 N-m]
Weight	0.23 lb [105g]

C-more Replacement Parts

These replacement parts can be used to replace damaged, worn or lost *C-more* components.

Replacement parts at a glance:

Part Number	Price		Description
EA9-BRK			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			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			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			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.