



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: \$409.00

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
 - o VGA 640x480, SD 720x480, XGA 1024x768, HD 1280x720
 - o Audio is also supported via the HDMI connection
- Compatible with ELO and EETI eGalax Single Touch Resistive and eGalax Protective Capacitive Touchscreens
 - o The USB A port allows support for most industrial touch screen monitors in the market
- Multiple connections
 - o Ethernet and RS-232/422/485 serial ports support programming and device connections
 - o USB-B port for programming, monitoring and configuration
 - o USB-A port for USB HID devices such as USB hub, pen drives, touch screen displays, keyboard, mouse and bar-code scanners
 - o SD card slot for log files, project memory or graphic media
- 82MB of user memory

3-pin RS485 Port

RS232, RS422/485 Serial Port

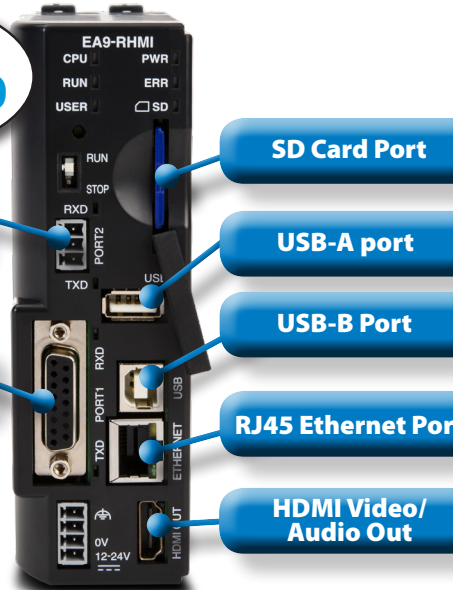
SD Card Port

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 \$54.00 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



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 apps**



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. | \$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 | 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 EA9-RHMI Headless HMI

EA9-RHMI



\$409.00

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.



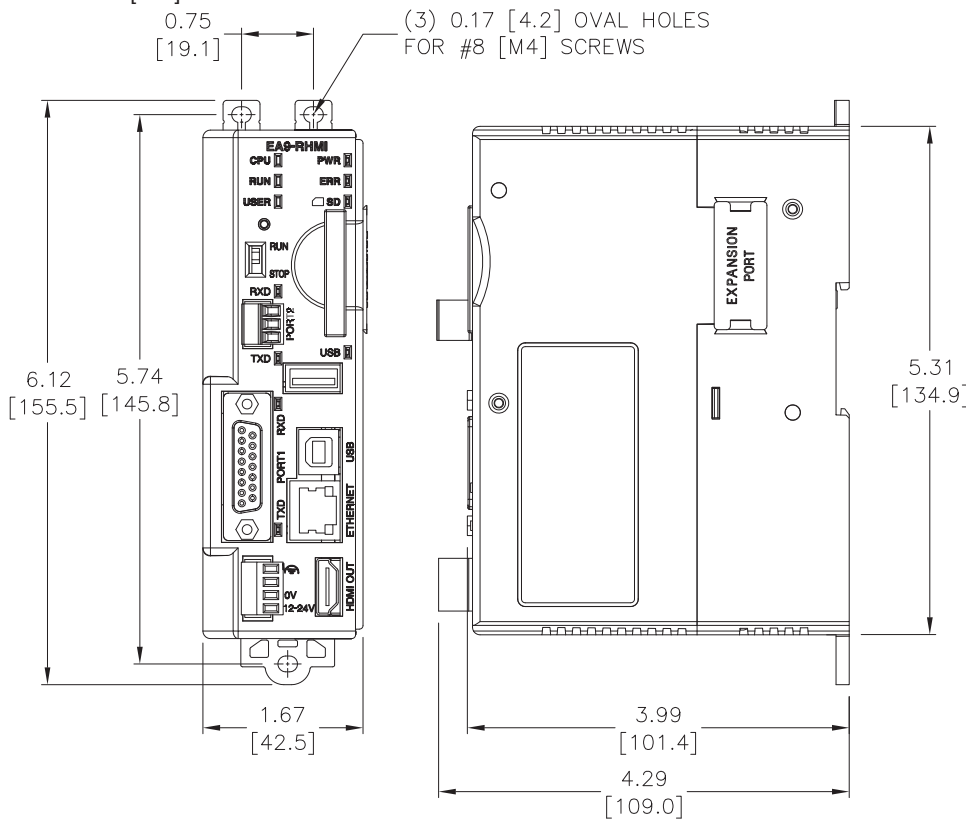
Features

- 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

| Function | Available |
|----------------------|-----------|
| Ethernet | Yes |
| USB | Yes |
| SD Card | Yes |
| Audio Out | No |
| HDMI Audio/Video Out | Yes |
| Expansion Module | Yes |

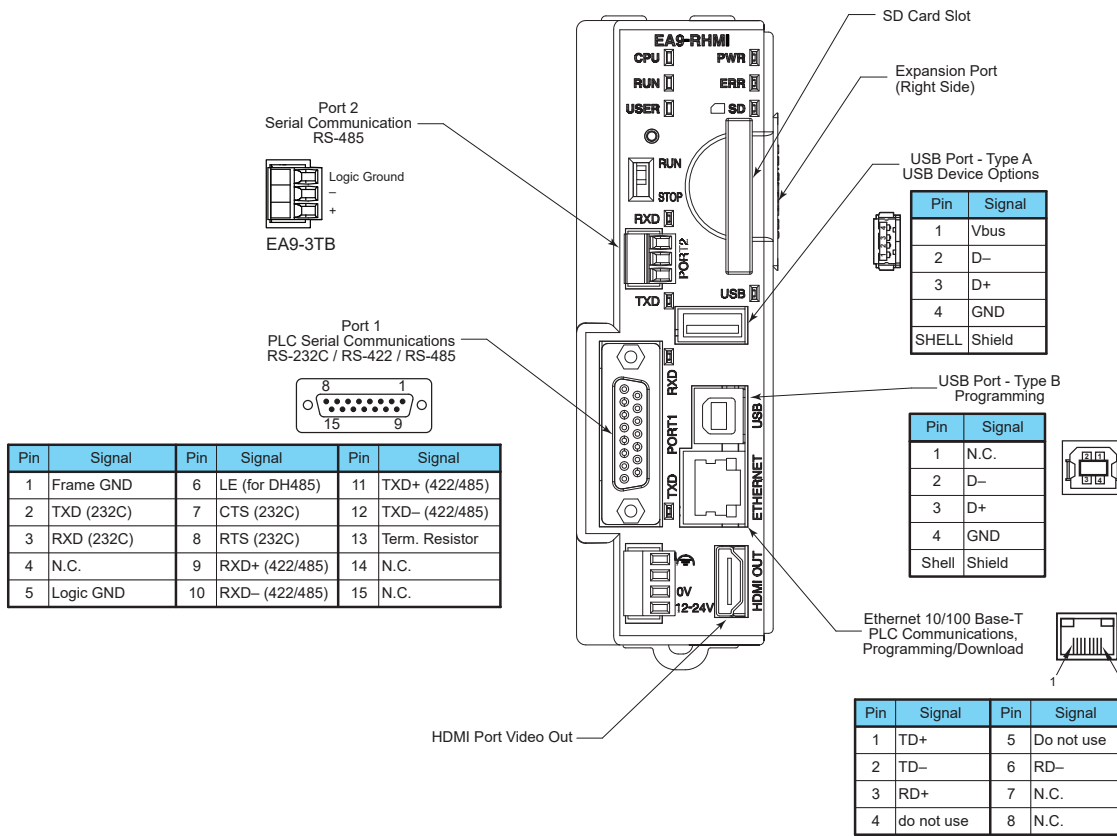
Dimensions

inches [mm]



See our website www.AutomationDirect.com 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 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 | |
| Omron | Q, QnA Ethernet | QnA Ethernet | |
| | C200 Adapter, C500 | Host Link | |
| Modicon | CJ1/CS1 Serial, CJ1/CS1 Ethernet | FIN5 | |
| | 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 |
| | | 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 C-more or C-more 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 C-more or C-more 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 C-more or C-more 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 C-more or C-more 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 C-more or C-more 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 C-more or C-more 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 C-more or C-more 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 C-more or C-more 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 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 | \$21.00 |
| Communication cable, 15-pin male D-sub to 15-pin male D-sub, shielded, 3m/9.8ft cable length. For use with C-more or C-more 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 C-more or C-more 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 C-more or C-more 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 C-more or C-more Micro panel and an Omron C200 or C500 CPU. | EA-OMRON-CBL | \$21.50 |

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 | \$8.50 |
| USB-CBL-AB6 | 6 feet | \$11.00 |
| USB-CBL-AB10 | 10 feet | \$25.50 |
| USB-CBL-AB15 | 15 feet | \$29.00 |

Stride® Ethernet Switch



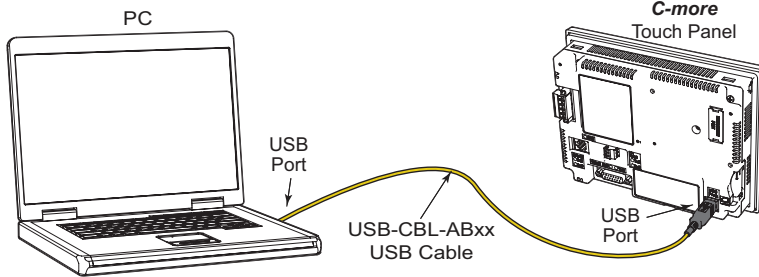
Message in from a device

Message is sent out only from the port connected to destination device

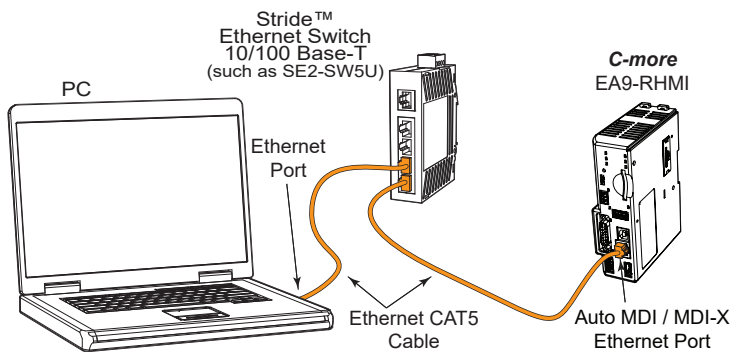
Part No. SE2-SW5U

\$78.00

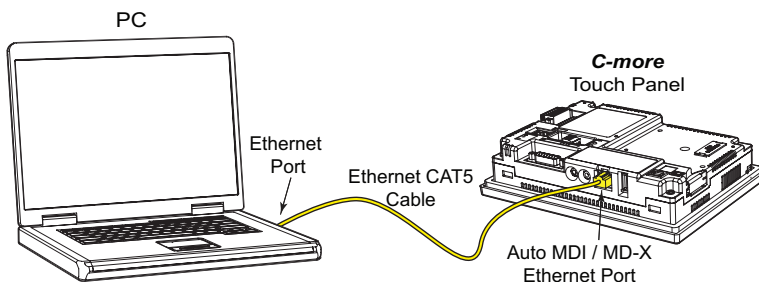
USB Connectivity



Ethernet Connectivity via a Hub or Switch



Ethernet Direct Connection



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.

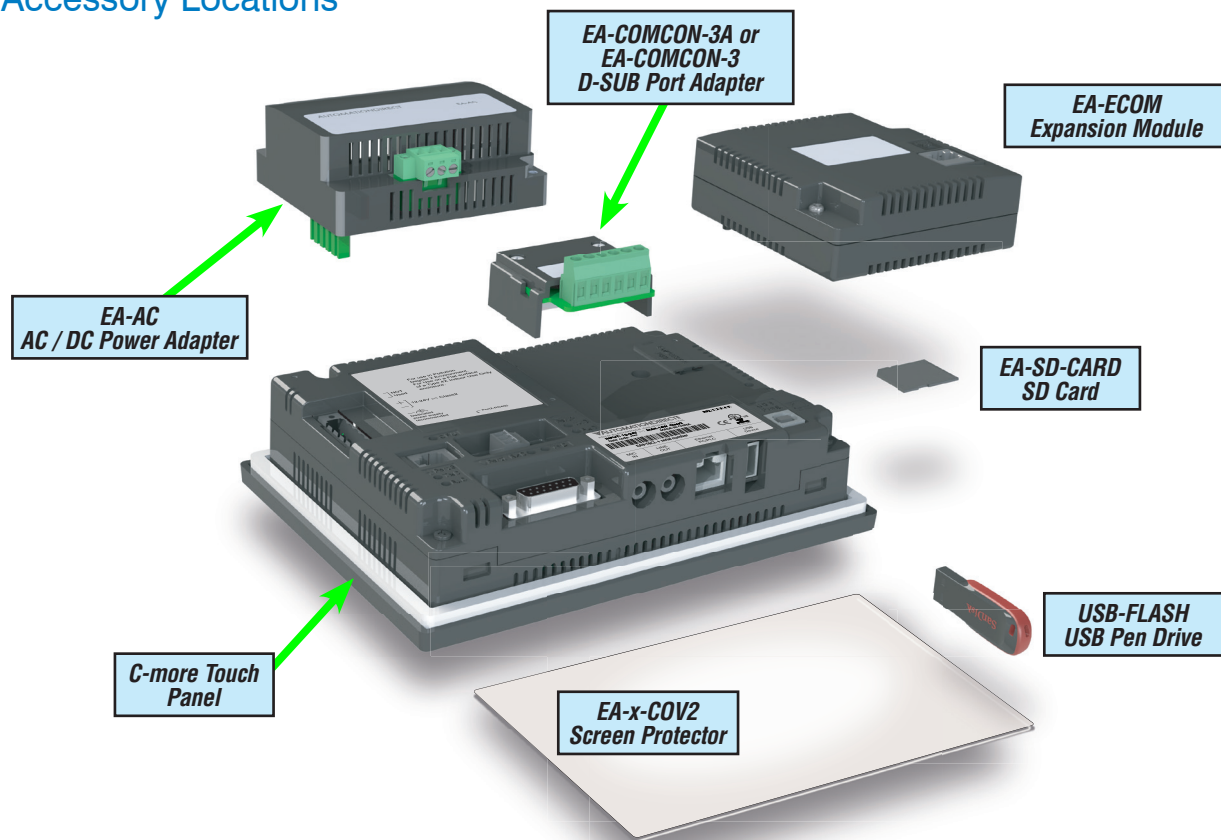
C-more Accessories

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. | \$80.00 |
| 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. | \$40.50 |
| EA-7-COV2 | Screen protector, non-glare, 7in. Package of 3. For use with <i>C-more</i> 7in panels. | \$42.00 |
| 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. | \$43.50 |
| 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. | \$49.00 |
| EA-10W-COV2 | Screen protector, non-glare, 10in. Package of 3. For use with <i>C-more</i> EA9-T10WCL widescreen HMI. | \$49.00 |
| EA-12-COV2 | Screen protector, non-glare, 12in. Package of 3. For use with <i>C-more</i> 12in panels. | \$50.00 |
| EA-15-COV2 | Screen protector, non-glare, 15in. Package of 3. For use with <i>C-more</i> 15in panels. | \$59.00 |
| 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. | \$54.00 |
| 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. | \$45.50 |
| 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. | \$21.00 |
| EA-SD-CARD | SD memory card, 2GB, industrial. | \$106.00 |
| USB-FLASH | SanDisk USB Flash drive, 32GB. | \$21.50 |

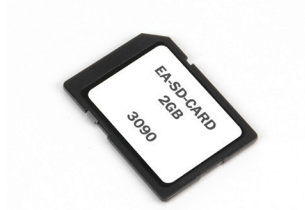
Accessory Locations



C-more Accessories

SD Card

EA-SD-CARD



\$106.00

SD memory card for non-volatile storage, 2GB industrial grade. 85° C maximum operating temperature makes it suitable for data logging in industrial applications. Recommended for *C-more* EA9 series. The EA-SD-CARD utilizes SLC technology so it is the fastest option for writing and storing data. If logged data is saved to external memory, AutomationDirect recommends using an EA-SD-CARD.

SLC Flash memory utilized by EA-SD-CARD has the advantage of being the most accurate flash memory type when reading and writing data. SLC Flash has the longest lifespan of flash types and can operate in a broader temperature range than other types.

EA-SD-CARD with SLC Flash memory is recommended for industrial workloads that require heavy read / write cycles.

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

USB Flash Drive

USB-FLASH



\$21.50

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

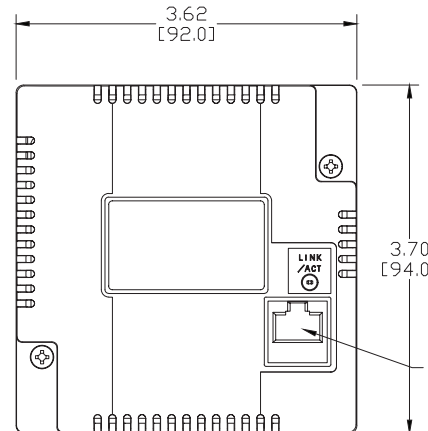
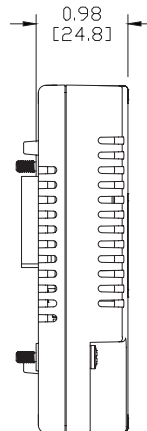
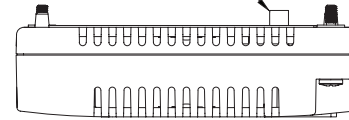


\$54.00

Dimensions

Units: inches [mm]

PANEL CONNECTION



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 |




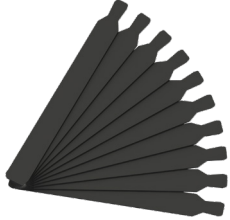




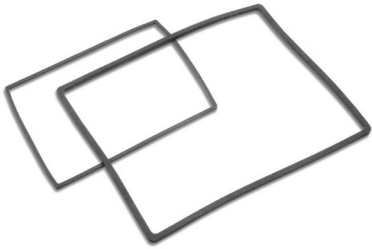
EA-ECOM Specifications

| 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 | \$28.50 |  | Panel mounting brackets, replacement. Package of 8. For use with <i>C-more</i> EA9 series touch panels. |
| EA9-LBL | \$25.50 |  | Blank label insert, replacement. Package of 10. For use with <i>C-more</i> EA9 series touch screen front bezel. |
| EA9-3TB | \$9.75 |  | 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 | \$7.75 |  | CLICK terminal blocks, replacement, 4-pole. Package of 2. For use with CLICK PLCs. and <i>C-more</i> EA9-RHMI. |
| EA-DC-CON | \$15.50 |  | DC 5-terminal power connector, replacement. For use with <i>C-more</i> EA7 and EA9 series touch panels. |
| EA-AC-CON | \$8.25 |  | AC 3-terminal power connector, replacement. For use with <i>C-more</i> AC adapter (p/n EA-AC). |
| EA9-15-GSK | \$26.50 |  | Panel mounting gasket, replacement. For use with <i>C-more</i> EA9 series 15in HMIs. |
| EA9-12-GSK | \$21.50 | | Panel mounting gasket, replacement. For use with <i>C-more</i> EA9-T12CL 12in touch panel. |
| EA9-10W-GSK | \$20.50 | | Panel mounting gasket, replacement. For use with <i>C-more</i> EA9-T10WCL 10in HMI. |
| EA9-10-GSK | \$20.50 | | Panel mounting gasket, replacement. For use with <i>C-more</i> EA9-T10CL 10in HMI. |
| EA9-8-GSK | \$18.50 | | Panel mounting gasket, replacement. For use with <i>C-more</i> EA9-T8CL 8in touch panel. |
| EA9-6-GSK | \$16.50 | | Panel mounting gasket, replacement. For use with <i>C-more</i> EA9 series 6in and 7in touch panels. |