## C-more Compatibility Protocols & Cables

### PLC Family | Model | Protocols | Cable Description | Cable Part Number | Price
---|---|---|---|---|---
### Allen-Bradley | MicroLogix 1000, 1100, 1200, 1400, 1500, 2000 | DH485, ACIA (HI-GE) | Communication cable, 15-pin male D-sub to 6-pin RJ21, 9.8-ft cable length. For use with C-more or C-more Micro panel and AutomationDirect PLCs with RJ21 ports. | EA-2CBL-1 | $21.50
### Modbus RTU | Modbus RTU devices | Modbus RTU | Communication cable, 15-pin male D-sub to 6-pin RJ21, 9.8-ft cable length. For use with C-more or C-more Micro panel and a DL405 (top port) CPU. | EA-2CBL-1 | $21.00
### Modbus TCP/IP | Modbus TCP/IP devices | Modbus TCP/IP | Communication cable, 15-pin male D-sub to 6-pin RJ21, 9.8-ft cable length. For use with C-more or C-more Micro panel and a DL405 (bottom port) CPU. | EA-4CBL-2 | $22.00
### GE | 90/30, 90/70, Micro 90, VersaMax Micro | SNAP | Communication cable, 15-pin male D-sub to 6-pin RJ21, 9.8-ft cable length. For use with C-more or C-more Micro panel and an Allen-Bradley MicroLogix CPU. | EA-ML0GIX-CBL | $32.00
### Mitsubishi | FX Series | FX Direct | Communication cable, 15-pin male D-sub to 6-pin RJ21, 9.8-ft cable length. For use with C-more or C-more Micro panel and an Allen-Bradley MicroLogix CPU. | EA-MLOGIX-CBL | $21.00
### Omron | C200 Adapter, C500 | Host Link | Communication cable, 15-pin male D-sub to 6-pin RJ21, 9.8-ft cable length. For use with C-more or C-more Micro panel and an Allen-Bradley MicroLogix CPU. | EA-SLC-232-CBL | $21.00
### Modicon | 984 CPU, Quantum TS CX, DVP | Modbus RTU | Communication cable, 15-pin male D-sub to 6-pin RJ21, 9.8-ft cable length. For use with C-more or C-more Micro panel and an Allen-Bradley MicroLogix CPU. | EA-PLC5-232-CBL | $21.00
### Siemens | S7-300 CPU, S7-400 CPU, S7-1200 CPU, S7-1500 Ethernet | Ethernet ISO over TCP | Communication cable, 15-pin male D-sub to 6-pin RJ21, 9.8-ft cable length. For use with C-more or C-more Micro panel and an Allen-Bradley MicroLogix CPU. | EA-DH485-CBL | $20.50
### Productivity Series | all | AutomationDirect P3000 Serial | Communication cable, 15-pin male D-sub to 6-pin RJ21, 9.8-ft cable length. For use with C-more or C-more Micro panel and an Allen-Bradley MicroLogix CPU. | EA-90-30-CBL | $21.00
### Do-more | all | AutomationDirect P3000 Ethernet | Communication cable, 15-pin male D-sub to 6-pin RJ21, 9.8-ft cable length. For use with C-more or C-more Micro panel and an Allen-Bradley MicroLogix CPU. | EA-MITSU-CBL | $21.00
### CLICK | all | AutomationDirect Modbus (CLICK) | Communication cable, 15-pin male D-sub to 6-pin RJ21, 9.8-ft cable length. For use with C-more or C-more Micro panel and an Allen-Bradley MicroLogix CPU. | EA-OMRON-CBL | $21.00

### Example Cables:
- **EA-2CBL**
- **EA-2CBL-1**

For the latest prices, please check AutomationDirect.com.

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This document contains information on compatibility protocols and cables for C-more Operator Touch Panels, including various models and their corresponding protocols and cable part numbers. For detailed compatibility information, please refer to AutomationDirect.com.
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.

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 Programming Cables

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Length</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>USB-CBL-AB3</td>
<td>3 feet</td>
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C-more Operator Touch Panels

For the latest prices, please check AutomationDirect.com.
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 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 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.
**Ethernet Port**

The Ethernet port has several uses:
- Download program to panel
- Communicate to PLCs/PCs
- Send e-mail
- Access FTP server
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**Expansion Port**

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

**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.

**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 Resitive/SAW, EETI eGalax Single Touch Resitive touchscreens)
- USB mouse
- USB keyboard
- USB flash drives (USB-FLASH)
- USB scanner
- USB barcode scanner

**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.

**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** 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.