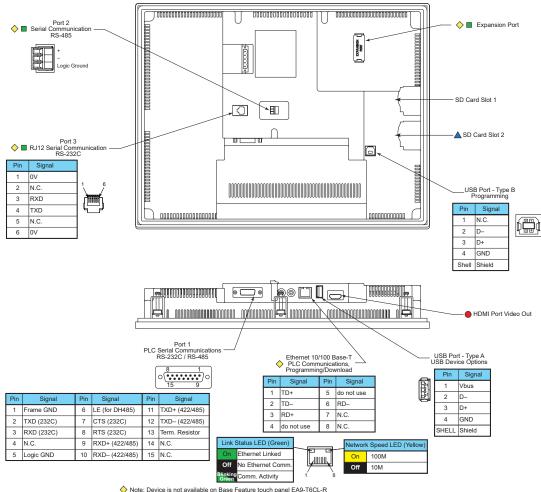
C-more Communication Ports



Note: Device is not available on Base Feature touch panel EA9-T6CL-R

Note: Device is not available on Base Feature touch panels EA9-T7CL-R and EA9-T15CL-R

Note: Device is only available on touch panels EA9-T12CL and EA9-T15CL ▲ Note: Device is only available on touch panels EA9-T12CL, EA9-T15CL and EA9-T15CL-R.

Ethernet Port

The Ethernet port has several uses:

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

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

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

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

Expansion Port

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

USB Port B

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

USB Port A

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

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

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

Sound Interface (Audio Line Out)

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

Serial Port

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

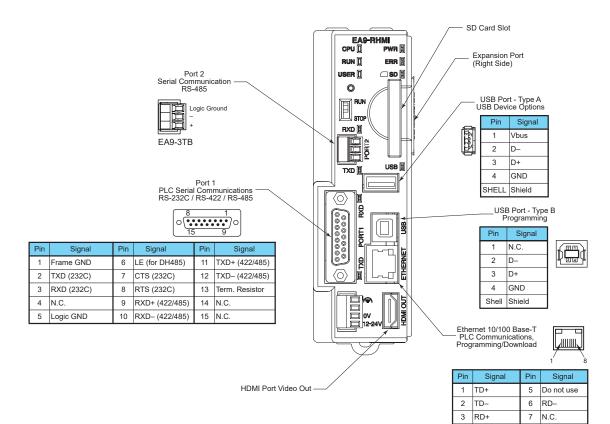
Port 2 - Connect your RS-485 network via Port 2. Port 2 is provided with a 3-wire removable terminal block.

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

HDMI Video Out

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

C-more EA9-RHMI Communication Ports



Ethernet Port

The Ethernet port has several uses:

- Download program to panel
- Communicate to PLCs/PCs
- Send e-mail
- Access FTP server
- Act as a 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 <u>EA-ECOM</u> 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 (<u>USB-FLASH</u>)
- 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

8 N.C

do not use

4

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

For the latest prices, please check AutomationDirect.com.

1-800-633-0405 For the latest prices, please check AutomationDirect.com **C-more Communication Protocols & Cables**

Allen-Bradley	MicroLogix 1000, 110 SLC 5-/03/04/05 ControlLogix™, Com PLC-5 ControlLogix, Compa Based ControlLogix, Compa Generic I/O Messagii ControlLogix, Compa Based MicroLogix, Compa Based MicroLogix, Compa Based MicroLogix, 100, 140 Ethernet port MicroLogix 1000, 110 SLC 5-03/04/05, all v Micro 800 series Micro 800 series Modbus RTU devices Modbus RTU devices Modbus TCP/IP devices Modbus TCP/IP devices Modbus TCP/IP devices Modbus RTU devices RTU	ng actLogix, FlexLogix - Tag 0 & SLC5/05, all via native 00, 1200, 1400,1500 & via ENI Adapter g Based s ces 00, VersaMax Micro 012H, Q25H //CS1 Ethernet 113 CPU, AEG Modicon Micro -xx, 411-xx, 512-xx, 612-xx	PPI Ethernet ISO over TCP Productivity Serial Productivity Ethernet Do-more Serial
Allen-Bradley	MicroLogix 1000, 110 SLC 5-/03/04/05 ControlLogix™, Com PLC-5 ControlLogix, Compa Based ControlLogix, Compa Generic I/O Messagii ControlLogix, Compa Based MicroLogix 1100, 1400 Ethernet port MicroLogix 1000, 110 SLC 5-03/04/05, all v MicroLogix 1000, 110 SLC 5-03/04/05, all v MicroLogix 1000, 110 SLC 5-03/04/05, all v Micro 800 series - Ta Modbus RTU devices Modbus TCP/IP device 90/30, 90/70, Micro 9 90/30, 90	00, 1200, 1400 and 1500 pactLogix™, FlexLogix™ actLogix, FlexLogix - Tag actLogix, FlexLogix - Tag ot Logix, FlexLogix - Tag 0 & SLC5/05, all via native 0, 1200, 1400, 1500 & via ENI Adapter g Based s ces 00, VersaMax Micro 012H, Q25H //CS1 Ethernet 113 CPU, AEG Modicon Micro 	DF1 Half Duplex; DF1 Full Duplex DF1 Half Duplex; DF1 Full Duplex DF1 Half Duplex; DF1 Full Duplex EtherNet/IP Server EtherNet/IP Client Modbus RTU Modbus TCP DF1 Full Duplex EtherNet/IP Client Modbus RTU Modbus RTU Modbus RTU Modbus TCP/IP SNPX SRTP Ethernet FX Direct Q CPU QnA Serial QnA Ethernet Host Link FINS Modbus RTU PPI Ethernet ISO over TCP Productivity Serial Productivity Ethernet Do-more Serial
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Allen-Bradley	PLC-5 ControlLogix, Compa Based ControlLogix, Compa Based ControlLogix, Compa Based Micrologix 1100, 1400 Ethernet port Micro 200 series Micro 800 series Micro 800 series Micro 800 series Modbus RTU devices Modbus RTU devices Modbus TCP/IP device 90/30, 90/70, Micro 9 90/30, 90/70, Micro 9 90/30, 90/70, Micro 9 90/30, 90/70, Micro 9 90/30, Rx3i FX Series Q02, Q02H, Q06H, C Q, QnA Serial Q, QnA Serial Q, QnA Serial Q, QnA Serial Q, QnA Serial Q, QnA Serial Q, QnA Serial C200 Adapter, C500 CJ1/CS1 Serial, CJ1/ 984 CPU, Quantum Series 110 CPU: 311 S7-200 CPU, RS-448 S7-200 CPU, S7-300 S7-1500; Ethernet all	actLogix, FlexLogix - Tag actLogix, FlexLogix - Tag actLogix, FlexLogix - Tag 0 & SLC5/05, all via native 00, 1200, 1400,1500 & ia ENI Adapter g Based s ces 00, VersaMax Micro 2012H, Q25H //CS1 Ethernet 113 CPU, AEG Modicon Micro 	DF1 Half Duplex; DF1 Full Duplex EtherNet/IP Server EtherNet/IP Client Modbus RTU Modbus TCP DF1 Full Duplex EtherNet/IP Client Modbus RTU Modbus RTU Modbus TCP/IP SNPX SRTP Ethernet FX Direct Q CPU QnA Serial QnA Ethernet Host Link FINS Modbus RTU PPI Ethernet ISO over TCP Productivity Serial Productivity Ethernet Do-more Serial
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Siemens Productivity Series Do-more CLICK	S7-200 CPU, RS-485 S7-200 CPU, S7-300 S7-1500; Ethernet all	5 Serial	PPI Ethernet ISO over TCP Productivity Serial Productivity Ethernet Do-more Serial
Siemens Productivity Series Do-more CLICK	S7-200 CPU, S7-300 S7-1500; Ethernet all all) CPU, S7-400, S7-1200 CPU,	Ethernet ISO over TCP Productivity Serial Productivity Ethernet Do-more Serial
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[all		Do-more Ethernet Modbus (CLICK addressing)
_			Modbus TCP (CLICK addressing)
_		all	K-Sequence
_	DL05/DL06		DirectNET
ſ			Modbus (Koyo addressing)
	DI 105	H0-ECOM/H0-ECOM100	Direct LOGIC Ethernet
-	DL105	all	K-Sequence
	DL205	D2-230	K-Sequence K-Sequence
		D2-240	DirectNET
			K-Sequence
l c		D2-250/D2-250-1/D2-260/ D2-262 D2-240/D2-250-1/D2-260	DirectNET
			Modbus (Koyo addressing)
			DirectNET
		using D2-DCM	Modbus (Koyo addressing)
-		H2-ECOM/H2-ECOM100 D3-330/330P	Direct LOGIC Ethernet
		(Requires the use of a Data Communications Unit)	DirectNET
	DL305	Communications Unit) D3-340	DirectNET
Direct LOGIC		DJ-J40	K-Sequence
		D3-350	DirectNET
			Modbus (Koyo addressing)
		D2 250 using D2 DOM	DirectNET
		D3-350 using D3-DCM	Modbus (Koyo addressing)
		D4-430	K-Sequence
	DL405		
		D4-440	K-Sequence
			DirectNET K-Sequence
[D4-450/D4-454	DirectNET
			Modbus (Koyo addressing)
			DirectNET
		All with D4-DCM	Modbus (Koyo addressing)
		H4-ECOM/H4-ECOM100	Direct LOGIC Ethernet
	H2-WinPLC (Think &	H4-ECOM/H4-ECOM100 Do) Live V5.2 or later and Do) Live V5.5.1 or later and	

Cable	Cable	Price
Description	Part Number	THUC
AutomationDirect 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.	<u>EA-2CBL</u>	\$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 C-more or C-more Micro panel and a D3-340 CPU top or bottom port.	<u>EA-3CBL</u>	\$31.00
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</i> -more or <i>C</i> -more 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.	<u>EA-4CBL-2</u>	\$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.	<u>EA-MLOGIX-CBL</u>	\$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.	<u>EA-SLC-232-CBL</u>	\$31.00
AutomationDirect 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 DF1 port.	<u>EA-PLC5-232-CBL</u>	\$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.	<u>EA-90-30-CBL</u>	\$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.	<u>EA-MITSU-CBL</u>	\$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.	<u>EA-MITSU-CBL-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 C-more or C-more Micro panel and an Omron C200 or C500 CPU.	<u>EA-OMRON-CBL</u>	\$31.00
Example Cables:		



1-800-633-0405

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:

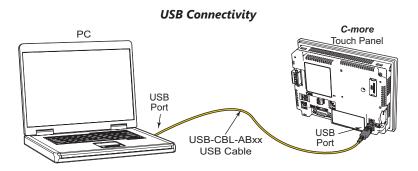
- USB or Ethernet connection to HMI (cables sold separately).
- Windows operating system see automationdirect.com for specific operating system requirements.



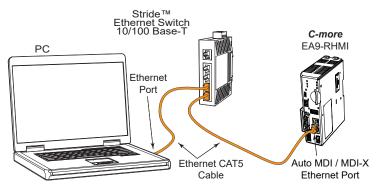
NOTE: Regarding Ethernet access to a C-more HMI.

If you intend to take advantage of the methods of remote access to the HMI, including the Webserver (Secure HTTPs), 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.

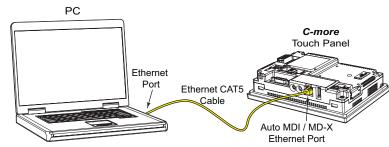
Security measures may include password protection, changing the ports exposed on your network, including a VPN in your network, and other methods. Security should always be carefully evaluated for each installation.



Ethernet Connectivity via a Hub or Switch



Ethernet Direct Connection





Part No. USB-CBL-ABxx

USB Programming Cables				
Part Number	Length	Price		
USB-CBL-AB3	3 feet	\$12.00		
USB-CBL-AB6	6 feet	\$16.00		
USB-CBL-AB10	10 feet	\$36.50		
USB-CBL-AB15	15 feet	\$42.50		

Stride[®] **Ethernet Switch**



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

Message in from

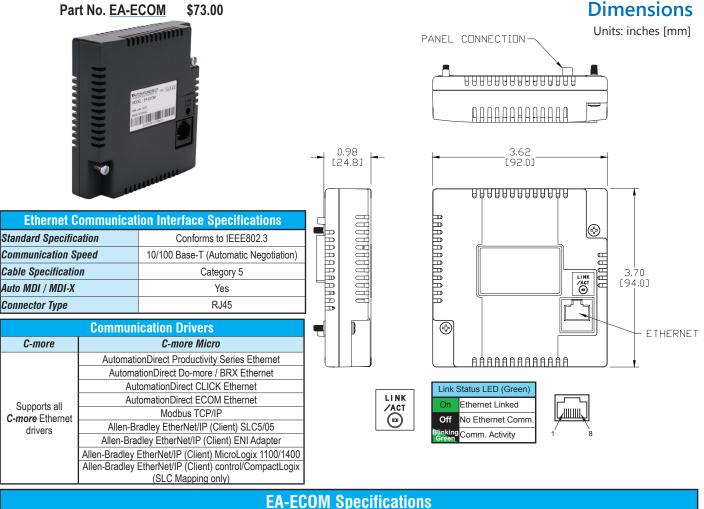


Operator Interface tCME-20

Communication Expansion Module

EA-ECOM Ethernet Communication Module

The <u>EA-ECOM</u> 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.



EA-ECOM Specifications		
Part Number	<u>EA-ECOM</u>	
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]	

www.automationdirect.com