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

	C	ompatibility Table	
PLC Family		Model	Protocols
	MicroLogix 1000, 110 SLC 5-/01/02/03	00, 1200, 1400, 1500,	DH485/AIC/AIC+
Allen-Bradley	MicroLogix 1000, 110	00, 1200, 1400 and 1500	
	SLC 5-/03/04/05	nactLogiv™ FleyLogiv™	DF1 Half Duplex; DF1 Full Duplex
	ControlLogix™, CompactLogix™, FlexLogix™ PLC-5		DF1 Full Duplex
	ControlLogix, CompactLogix, FlexLogix - Tag		DF1 Half Duplex; DF1 Full Duplex
	Controll ogix Compa	actl oaix Flext oaix -	1 '
	ControlLogix, Compa Generic I/O Messagi	ng	EtherNet/IP Server
	ControlLogix, CompactLogix, FlexLogix - Tag Based		
	Micrologix 1100, 140	0 & SLC5/05, all via native	EtherNet/IP Client
	Ethernet port MicroLogix 1000, 1100, 1200, 1400,1500 &		
	MicroLogix 1000, 1100, 1200, 1400,1500 & SLC 5-03/04/05, all via ENI Adapter		Madhaa DTU
	Micro 800 series		Modbus RTU Modbus TCP
	Micro 800 series - Tag Based		DF1 Full Duplex
			EtherNet/IP Client
Modbus RTU	Modbus RTU devices	S	Modbus RTU
	Modbus TCP/IP devi	-	Modbus TCP/IP
WOUDUS TCF/II	90/30, 90/70, Micro 9	_	SNPX
GE	90/30, 90/70, MICro 9	vo, voisaividă IVIIUIU	SRTP Ethernet
	FX Series		FX Direct
Mitaubiati	Q02, Q02H, Q06H, Q	Q12H, Q25H	Q CPU
Mitsubishi	Q, QnA Serial		QnA Serial
	Q, QnA Ethernet		QnA Ethernet
Omron	C200 Adapter, C500	1004 511	Host Link
	CJ1/CS1 Serial, CJ1		FINS
Modicon	Series 110 CPU: 311	113 CPU, AEG Modicon Micro -xx, 411-xx, 512-xx, 612-xx	Modbus RTU
Ciamana	S7-200 CPU, RS-485 Serial		PPI
Siemens	S7-200 CPU, S7-300 CPU, S7-400, S7-1200 CPU, S7-1500; Ethernet		Ethernet ISO over TCP
Productivity	all		Productivity Serial
Series			Productivity Ethernet
_	all		Do-more Serial
Do-more			Do-more Ethernet
CLICK			Modbus (CLICK addressing)
OLIGIT			Modbus TCP (CLICK addressing)
	DL05/DL06	all	K-Sequence
			DirectNET Modbus (Koyo addressing)
		H0-ECOM/H0-ECOM100	Direct LOGIC Ethernet
	DL105	all	K-Sequence
		D2-230	K-Sequence
	DL205	D2-240	K-Sequence
		D2-240	DirectNET
		D2-250/D2-250-1/D2-260/ D2-262 D2-240/D2-250-1/D2-260 using D2-DCM H2-ECOM/H2-ECOM100	K-Sequence
			DirectNET Madhua (Kaya addressing)
			Modbus (Koyo addressing) DirectNET
			Modbus (Koyo addressing)
			Direct LOGIC Ethernet
		D3-330/330P	
	DL305	(Requires the use of a Data Communications Unit)	DirectNET
		D3-340	DirectNET
Direct LOGIC			K-Sequence
		D3-350	DirectNET
			Modbus (Koyo addressing)
		D3-350 using D3-DCM	DirectNET Modbus (Koyo addressing)
		-	K-Sequence
	DL405	D4-430	DirectNET
		D4 440	K-Sequence
		D4-440	DirectNET
		D4-450/D4-454	K-Sequence
			DirectNET
	DL405	D4-430/D4-434	
	DL405	D4-430/D4-434	Modbus (Koyo addressing)
	DL405	All with D4-DCM	Modbus (Koyo addressing) DirectNET
	DL405	All with D4-DCM	Modbus (Koyo addressing) DirectNET Modbus (Koyo addressing)
			Modbus (Koyo addressing) DirectNET
	H2-WinPLC (Think &	All with D4-DCM H4-ECOM/H4-ECOM100	Modbus (Koyo addressing) DirectNET Modbus (Koyo addressing) Direct LOGIC Ethernet

Cable Description	Cable Part Number	Price		
AutomationDirect 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	\$26.00		
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>	\$26.50		
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	\$26.00		
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-more</i> or <i>C-more</i> Micro panel and a DL405 (top port) CPU.	<u>EA-4CBL-1</u>	\$26.00		
Automation Direct 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>	\$27.00		
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	\$39.50		
Automation Direct 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	\$26.00		
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	\$26.00		
Automation Direct 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	\$25.50		
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	\$26.00		
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 a Mitsubishi FX Series CPU.	EA-MITSU-CBL	\$26.00		
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	\$26.00		
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 CPU.	EA-OMRON-CBL	\$26.00		

Example Cables:



C-more Computer Programming Connections

Using the *C-more* Programming Software <u>EA9-PGMSW</u> 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:

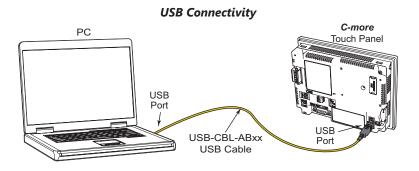
- USB or Ethernet connection to HMI (cables sold separately).
- Windows operating system see automationdirect.com for specific operating system requirements.



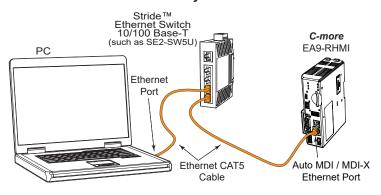
NOTE: Regarding Ethernet access to a C-more HMI.

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.

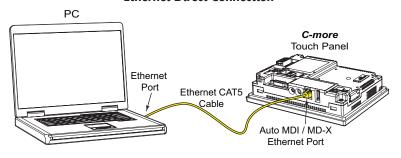
Security measures may include password protection, changing the ports exposed on your network, including a VPN in your network, and other methods. Security should always be carefully evaluated for each installation.



Ethernet Connectivity via a Hub or Switch



Ethernet Direct Connection



USB Programming Cable



Part No. USB-CBL-ABxx

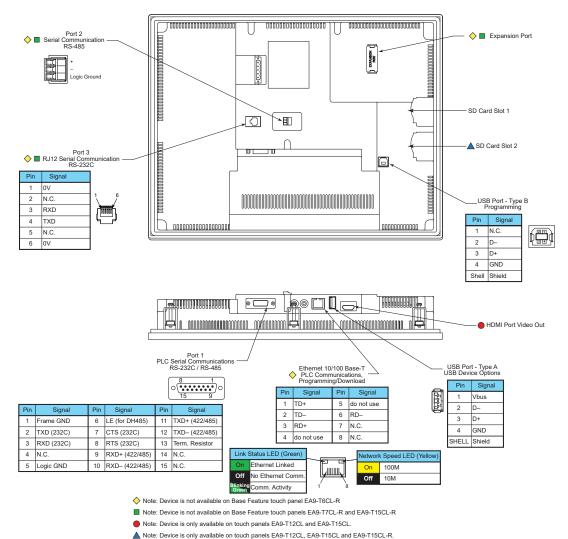
USB Programming Cables					
Part Number	Length	Price			
USB-CBL-AB3	3 feet	\$10.00			
USB-CBL-AB6	6 feet	\$13.50			
USB-CBL-AB10	10 feet	\$30.50			
USB-CBL-AB15	15 feet	\$35.50			

Stride® Ethernet Switch



Part No. <u>SE2-SW5U</u> \$83.00

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-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.

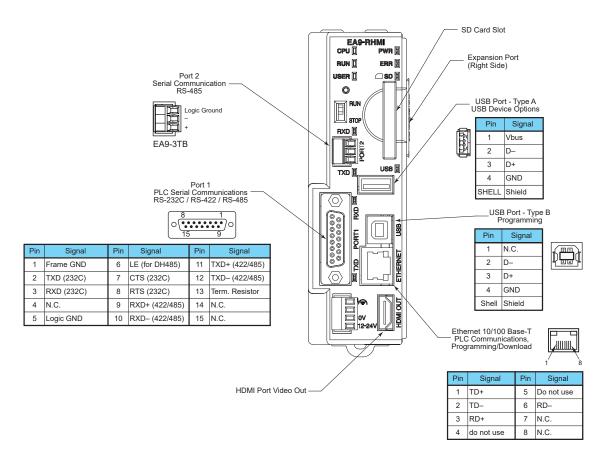
Port 2 - Connect your RS-485 network via Port 2. Port 2 is provided with a 3-wire removable terminal block.

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 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

<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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