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

	C	ompatibility Table	
PLC Family	Missal sai 4000 44	Model	Protocols
	ISLC 5-/01/02/03	00, 1200, 1400, 1500,	DH485/AIC/AIC+
	MicroLogix 1000, 11	00, 1200, 1400 and 1500	DEATH-K Downless DE4 E # E .
	SLC 5-/03/04/05 ControlLogix™, CompactLogix™, FlexLogix™		DF1 Half Duplex; DF1 Full Duplex
	PLC-5		DF1 Full Duplex
	ControlLogix, CompactLogix, FlexLogix - Tag		DF1 Half Duplex; DF1 Full Duplex
	Based ControlLogix, CompactLogix, FlexLogix -		EtherNet/IP Server
Allen-Bradlev	ControlLogix, CompactLogix, FlexLogix - Generic I/O Messaging ControlLogix, CompactLogix, FlexLogix - Tag		Luicinevii Seivei
Allen-Bradley	Based		
	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
	Wildro dod deried Te		EtherNet/IP Client
Modbus RTU	Modbus RTU device	S	Modbus RTU
Modbus TCP/IF	Modbus TCP/IP devi		Modbus TCP/IP
GE	90/30, 90/70, Micro 9	90, VersaMax Micro	SNPX
GE	90/30, Rx3i		SRTP Ethernet
	FX Series Q02, Q02H, Q06H, Q12H, Q25H		PX Direct Q CPU
Mitsubishi	Q, QnA Serial	× 1∠11, ₩∠∪∏	Q CPU QnA Serial
	Q, QnA Ethernet		QnA Ethernet
Omron	C200 Adapter, C500		Host Link
Omron	CJ1/CS1 Serial, CJ1		FINS
Modicon	984 CPU, Quantum Series 110 CPU: 311	113 CPU, AEG Modicon Micro 1-xx, 411-xx, 512-xx, 612-xx	Modbus RTU
	S7-200 CPU, RS-485 Serial		PPI
Siemens	\$7-200 CPU, \$7-300	0 CPU, S7-400, S7-1200 CPU,	Ethernet ISO over TCP
Productivity			Productivity Serial
Productivity Series	all		Productivity Ethernet
-	all		Do-more Serial
Do-more			Do-more Ethernet
CLICK	all		Modbus (CLICK addressing)
CLICK			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
		D2-240	K-Sequence
	DL205		DirectNET K Seguence
Direct LOGIC		D2-250/D2-250-1/D2-260/ D2-262 D2-240/D2-250-1/D2-260	K-Sequence DirectNET
			Modbus (Koyo addressing)
			DirectNET
		using D2-DCM	Modbus (Koyo addressing)
		H2-ECOM/H2-ECOM100	Direct LOGIC Ethernet
		D3-330/330P (Requires the use of a Data Communications Unit)	DirectNET
		Communications Unit) D3-340	
		D3-350	DirectNET K-Sequence
			DirectNET
			Modbus (Koyo addressing)
		D3-350 using D3-DCM	DirectNET
		Do doo doing Do-Dow	Modbus (Koyo addressing)
	DL405	D4-430	K-Sequence
			DirectNET K-Sequence
		D4-440	DirectNET
		D4-450/D4-454	K-Sequence
			DirectNET
			Modbus (Koyo addressing)
		All with D4-DCM	DirectNET
			Modbus (Koyo addressing)
	H2-WinPLC (Think & Do) Live V5.2 or later and		Direct LOGIC Ethernet Think & Do Modbus RTU
	Studio any version H2-WinPLC (Think & Do) Live V5.2 or later and Studio any version Studio V7.2.1 or later and Studio V7.2.1 or later and Studio V7.2.1 or later		
	Studio any version		(serial port) Think & Do Modbus TCP/IP

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	\$-04jn:
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>	\$-04jo:
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	Retired
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>	\$-04jq:
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, D3-3350 (bottom port) or DL405 (bottom port) CPU.	EA-4CBL-2	\$-04js:
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	\$-04jy:
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.	EA-SLC-232-CBL	\$;-04j[:
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	Retired
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	\$-04ju:
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	\$;-04jt:
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.	EA-MITSU-CBL	\$-04jv:
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	\$-04jx:
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	\$-04jz:

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 <u>EA9-PGMSW</u>, on a PC:

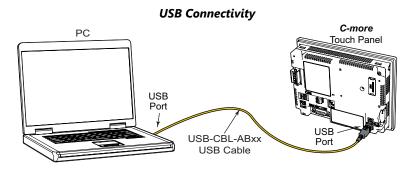
- USB or Ethernet connection to HMI (cables sold separately).
- Windows operating system see automationdirect.com for specific operating system requirements.



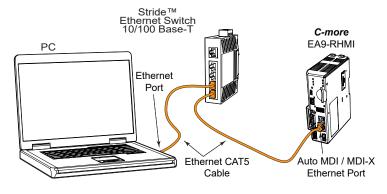
NOTE: Regarding Ethernet access to a C-more HMI.

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.

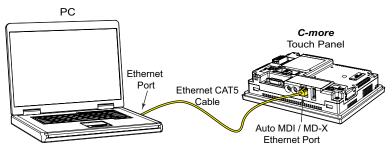
Security measures may include password protection, changing the ports exposed on your network, including a VPN in your network, and other methods. Security should always be carefully evaluated for each installation.



Ethernet Connectivity via a Hub or Switch



Ethernet Direct Connection



USB Programming Cable



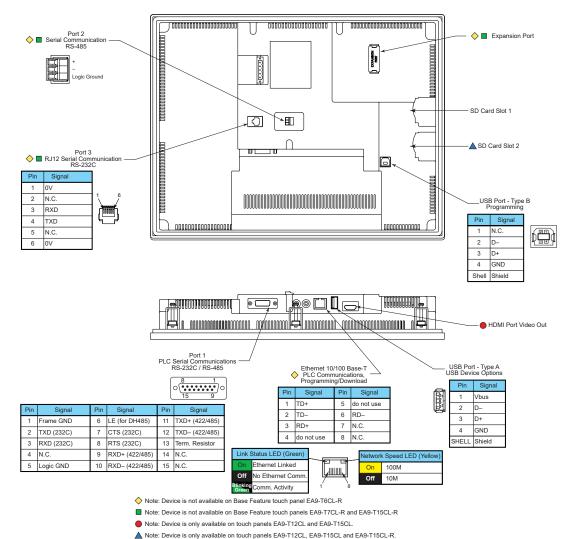
Part No. USB-CBL-ABxx

USB Programming Cables					
Part Number	Length	Price			
USB-CBL-AB3	3 feet	\$04kd:			
USB-CBL-AB6	6 feet	\$04ke:			
USB-CBL-AB10	10 feet	\$04kb:			
USB-CBL-AB15	15 feet	\$04kc:			

Stride® Ethernet Switch



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 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.

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

Expansion Port

The expansion port supports the <u>EA-ECOM</u> 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.

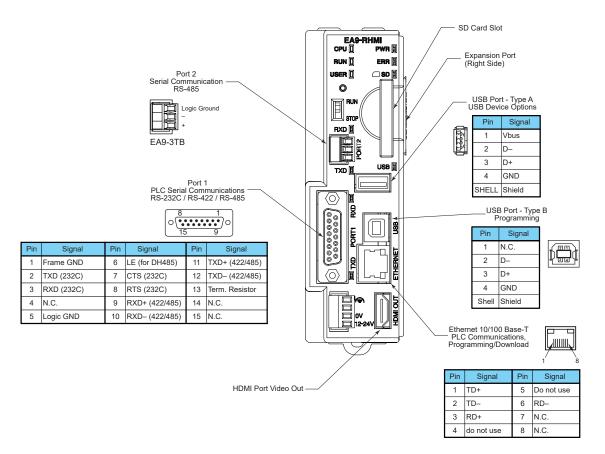
Port 2 - Connect your RS-485 network via Port 2. Port 2 is provided with a 3-wire removable terminal block.

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 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 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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