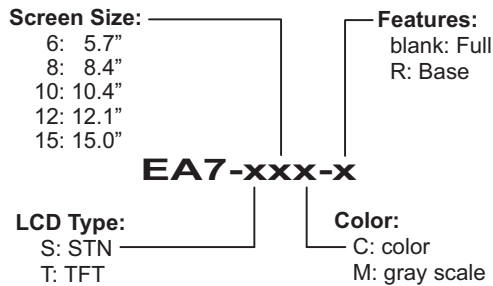


C-more Operator Panels Overview

Touch Panel Part Number Key:



Compatibility with our past!

All **C-more** panels have been designed to fit in the same dimensional cutout as a similar sized EZTouch panel*. In addition, **C-more** can convert and run existing EZTouch projects created with EZTouch Edit 3.1a sold by AutomationDirect. Just point, click and convert EZTouch projects to **C-more** and you are ready to go. All your hard work is transferred. To replace an EZTouch:

- 1) Remove it from its mounting cutout.
- 2) Click on your existing EZTouch project in the **C-more** browser. It will be converted to a **C-more** project, which can be downloaded into the new **C-more** panel.
- 3) Now mount the new **C-more** into the old cutout (using adapter plate where required) and reconnect your existing cables.

It's that simple!

Getting started






Installing the software and configuring the **C-more** panel is simple. You will need the following to successfully connect and configure a project for the panel:

- **C-more** touch panel - 6", 8", 10", 12" or 15" model
- **C-more** Programming Software, p/n EA-PGMSW
- **C-more** programming cable, USB or Ethernet
- 24 VDC switching power supply (min. 1.5A, switching) or the optional **C-more** AC Power Adapter
- Personal Computer - to run **C-more** programming software
- PLC communications cable (serial or Ethernet) to connect the **C-more** Touch Panel to your controller

* Replacement of an EZTouch wide bezel 6" model requires adapter EA-6-ADPTR.





Part Number	Description	Price
EA7-S6M-R	6-inch C-more grayscale STN touch panel (5.7 inch viewable screen), 15 shades of gray, 320 x 240 pixel QVGA screen resolution, 333 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP-65 (when mounted correctly; for indoor use only), non-replaceable 50,000 hour half-life backlight. *Base Model: Built-in USB, no Ethernet or CompactFlash support.	<--->
EA7-S6C-R	6-inch C-more color STN touch panel (5.7 inch viewable screen), 256 colors, 320 x 240 pixel QVGA screen resolution, 333 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP-65 (when mounted correctly; for indoor use only), non-replaceable 50,000 hour half-life backlight. *Base Model: Built-in USB, no Ethernet or CompactFlash support.	<--->
EA7-S6M	6-inch C-more grayscale STN touch panel (5.7 inch viewable screen), 15 shades of gray, 320 x 240 pixel QVGA screen resolution, 333 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP-65 (when mounted correctly; for indoor use only), non-replaceable 50,000 hour half-life backlight. Built-in Ethernet and USB; supports CompactFlash.	<--->
EA7-S6C	6-inch C-more color STN touch panel (5.7 inch viewable screen), 256 colors, 320 x 240 pixel QVGA screen resolution, 333 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP-65 (when mounted correctly; for indoor use only), non-replaceable 50,000 hour half-life backlight. Built-in Ethernet and USB; supports CompactFlash.	<--->
EA7-T6C	6-inch C-more color TFT touch panel (5.7 inch viewable screen), 65K colors, 320 x 240 pixel QVGA screen resolution, 333 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP-65 (when mounted correctly; for indoor use only), non-replaceable 50,000 hour half-life backlight. Built-in Ethernet and USB; supports CompactFlash.	<--->
EA7-T8C	8-inch C-more color TFT touch panel (8.4 inch viewable screen), 65K colors, 640 x 480 pixel VGA screen resolution, 400 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP-65 (when mounted correctly; for indoor use only), user replaceable 50,000 hour half-life backlight. Built-in Ethernet and USB; supports CompactFlash.	<--->
EA7-T10C	10-inch C-more color TFT touch panel (10.4 inch viewable screen), 65K colors, 640 x 480 pixel VGA screen resolution, 400 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP-65 (when mounted correctly; for indoor use only), user replaceable 50,000 hour half-life backlight. Built-in Ethernet and USB; supports CompactFlash.	<--->
EA7-T12C	12-inch C-more color TFT touch panel (12.1 inch viewable screen), 65K colors, 800 x 600 pixel SVGA screen resolution, 400 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP-65 (when mounted correctly; for indoor use only), user replaceable 50,000 hour half-life backlight. Built-in Ethernet and USB; supports CompactFlash.	<--->
EA7-T15C	15-inch C-more color TFT touch panel (15.0 inch viewable screen), 65K colors, 1024 x 768 XGA screen resolution, 400 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP-65 (when mounted correctly; for indoor use only), user replaceable 50,000 hour half-life backlight. Built-in Ethernet and USB; supports CompactFlash.	<--->
EA-PGMSW	C-more touch panel Windows-based configuration software. Requires Windows® Vista, 2000 Service Pack 4 or XP Home or Professional Service Pack 2. Includes software installation guide and CD-ROM. Requires USB 1.1 or Ethernet connection to touch panel. Cables sold separately.	<--->
USB-CBL-AB3	Standard 3-ft. (0.9m) USB 2.0 cable, A-type connector to B-type connector, used to connect personal computer to any C-more touch panel for setup and programming. (Note: Touch panels require a 24 VDC power source for configuration and operation.)	<--->
USB-CBL-AB6	Standard 6-ft. (1.8m) USB 2.0 cable, A-type connector to B-type connector, used to connect personal computer to any C-more touch panel for setup and programming. (Note: Touch panels require a 24 VDC power source for configuration and operation.)	<--->
USB-CBL-AB10	Standard 10-ft (3 meter) USB 2.0 cable, A-type connector to B-type connector, used to connect personal computer to any C-more touch panel for setup and programming. (Note: Touch panels require a 24 VDC power source for configuration and operation.)	<--->
USB-CBL-AB15	Standard 15-ft. (4.6m) USB 2.0 cable, A-type connector to B-type connector, used to connect personal computer to any C-more touch panel for setup and programming. (Note: Touch panels require a 24 VDC power source for configuration and operation.)	<--->

C-more Part Number Cross Reference

EZTouch (as sold by AutomationDirect)		C-more *	
EZTouch 6", grayscale STN (0–45 °C)		C-more 6", grayscale STN (0–50 °C)	
EZ-S6M-R	Requires: EA-6-ADPTR		EA7-S6M-R <--->
EZ-S6M-RS			
EZ-S6M-F	Requires: EA-6-ADPTR		EA7-S6M <---> (includes Ethernet)
EZ-S6M-FS			
EZTouch 6", 128 Color STN (0–45 °C)		C-more 6", 256 Color STN or 65,536 Color TFT (0–50 °C)	
EZ-S6C-K	Requires: EA-6-ADPTR		EA7-S6C-R <---> (256 Color STN)
EZ-S6C-KS			
EZ-S6C-F	Requires: EA-6-ADPTR		EA7-S6C <---> (256 Color STN; includes Ethernet)
EZ-S6C-FS			
EZ-S6C-FST			EA7-T6C <---> (65,536 Color TFT; includes Ethernet)
EZTouch 8", 128 Color STN (0–40 °C)		C-more 8", 65,536 Color TFT (0–50 °C)	
EZ-S8C-F			EA7-T8C <---> (includes Ethernet)
EZ-S8C-FS			
EZ-S8C-FST			
EZTouch 10", 128 Color TFT (0–50 °C)		C-more 10", 65,536 Color TFT (0–50 °C)	
EZ-T10C-F			EA7-T10C <---> (includes Ethernet)
EZ-T10C-FS			
EZ-T10C-FST			
EZ-T10C-FSE			
No 12" EZTouch available		C-more 12", 65,536 Color TFT (0–50 °C)	
			EA7-T12C <---> (includes Ethernet)
EZTouch 15", 128 Color TFT (0–45 °C)		C-more 15", 65,536 Color TFT (0–50 °C)	
EZ-T15C-FS			EA7-T15C <---> (includes Ethernet)
EZ-T15C-FST			
EZ-T15C-FSE			

* Note: All C-more touch panels are NEMA 4/4X, IP-65 (when mounted correctly, for indoor use only), non-FDA.

C-more Selection Guide & Specifications

Model	8" TFT color w/ full features	10" TFT color w/ full features	12" TFT color w/ full features	15" TFT color w/ full features
Specification				
Part Number	EA7-T8C	EA7-T10C	EA7-T12C	EA7-T15C
				
Price	<--->	<--->	<--->	<--->
Display Actual Size and Type	8.4" TFT color	10.4" TFT color	12.1" TFT color	15.0" TFT color
Color Scale	65,536 colors			
Display Viewing Area	6.73" x 5.05" [170.9 mm x 128.2 mm]	8.31" x 6.24" [211.2 mm x 158.4 mm]	9.47" x 7.62" [240.6 mm x 184.5 mm]	11.97" x 8.98" [304.1 mm x 228.1 mm]
Screen Pixels	640 x 480 (VGA)		800 x 600 (SVGA)	1024 x 768 (XGA)
Display Brightness	300 cd/m ² (NITS)	270 cd/m ² (NITS)	260 cd/m ² (NITS)	220 cd/m ² (NITS)
LCD Panel Dot Pitch	0.267 mm x 0.267 mm	0.33 mm x 0.33 mm	0.267 mm x 0.267 mm	0.297 mm x 0.297 mm
Backlight Average Lifetime*	Approximately 50,000 hours			
Backlight User Replaceable	Yes - Part Number EA-xx-BULB, xx = panel size			
Touch Panel Type	Analog Resistive (10-bit resolution, 1024 x 1024 touch area)		Analog Resistive (12-bit resolution, 4096 x 4096 touch area)	
CPU Type	32-Bit RISC CPU (400 MHz)		32-Bit RISC CPU (400 MHz) Plus Graphic Accelerator Chip	
Battery	Replaceable battery – ADC Part # D2-BAT-1 (Manufacturer Part # CR2354)			
System Memory	SDRAM 32 MBytes		SDRAM 64 MBytes	
System Flash Memory	FLASH 32 MBytes		FLASH 64 MBytes	
Backup Memory (SRAM)	Control data backup memory (SRAM) 256 KBytes			
Logging Data Memory	CompactFlash Memory Card p/n EA-FLASH-128MB, industrial grade, high speed (Optional) or USB Pen Drive p/n SDCZ4-2048-A10 (Optional)			
Number of Screens	Up to 999 – limited by available project memory (10 MBytes)		Up to 999 – limited by available project memory (40 MBytes)	
Realtime Clock	Built into panel (PLC clock is still accessible if available)			
Calendar – Month/Day/Year	Yes - battery backup			
Screen Saver	Yes, backlight turns off after a 30–1500 minute adjustable time, or can be disabled			
Serial PLC Interface	Serial PLC Port: RS-232C/422/485 15-Pin D-sub (female)			
USB Port – Type B	Download/Program – USB Port – type B (ver. 1.2)			
USB Port – Type A	Port for USB device options – type A (ver. 1.2)			
Ethernet Port	Ethernet 10/100 Base-T			
Audio Line Out	Audio Line Out, 1 Volt rms, stereo – requires amplifier and speaker(s)			
CF Card – Slot #1	Optional: CompactFlash Memory Card p/n EA-FLASH-128MB, industrial grade, high speed, CF slot #1 located on top side of touch panel.			
Expansion Assembly (p/n EA-EXP-OPT)	Optional: Use the CF Card Interface Module p/n EA-CF-IF in the right slot of the Expansion Assembly for installing CF card - Slot #2. The left slot of the Expansion Assembly is for future options.			
Supply Power	24 VDC, -15%, +20% (20.4–28.8 VDC operating range) (Use an AC Power Adapter, p/n EA-AC, to power the touch panel from a 100-240 VAC, 50/60 Hz, power source.)			
Power Consumption	15 W @ 24 VDC	17 W @ 24 VDC	20 W @ 24 VDC	33 W @ 24 VDC
Recommended Input Fuse	3.0 A DC slow blow			
Operating Temperature	0 to 50°C (32 to 122°F)			
Storage Temperature	-20 to +60°C (-4 to +140°F)			
Humidity	10–85% RH, non-condensing			
Noise Immunity	Noise voltage: 1000 Vp-p, Pulse width: 1 µs, Rise time: 1 ns			
Withstand Voltage	1000 VDC for 1 minute, between DC power supply input terminal and safety ground			
Insulation Resistance	Over 20 MΩ between DC power supply input terminal and safety ground			
Vibration	IEC61131-2 compliant, 10–57 Hz: 0.075 mm amplitude, 57–150 Hz 1.0 G: 10 sweep cycles per axis on each of 3 mutually perpendicular axes			
Shock	15 G peak, 11 ms duration, 2 shocks per axis, on 3 mutually perpendicular axes			
Enclosure	NEMA 4/4X, IP-65 (When mounted correctly. For indoor use only.)			
Agency Approvals	UL, cUL, CE			
Dimensions	8.748" x 10.894" x 2.053" [222.2 mm x 276.7 mm x 52.1 mm]	10.669" x 13.661" x 2.079" [271.0 mm x 347.0 mm x 52.8 mm]	11.024" x 13.366" x 2.075" [280.0 mm x 339.5 mm x 52.7 mm]	13.000" x 16.748" x 2.048" [330.2 mm x 425.4 mm x 52.0 mm]
Weight	2.60 lb. [1,180 g]	3.55 lb. [1,610 g]	4.59 lb. [2,080 g]	7.01 lb. [3,180 g]
* NOTE: The backlight average lifetime is defined as the average usage time it takes before the brightness becomes 50% of the initial brightness. The lifetime of the backlight depends on the ambient temperature. The lifetime will decrease under low or high temperature usage.				

C-more 10" TFT Color Touch Panel - Full Model

The **C-more** 10" TFT color full featured touch panel uses a 10.4" diagonal analog (1024 X 1024) touch screen with a 640 x 480 (VGA) pixel resolution TFT LCD (liquid crystal display) with 65K colors. **C-more** 10" touch panels can be directly mounted into any EZTouch 10" touch panel cutouts.

Part No. EA7-T10C

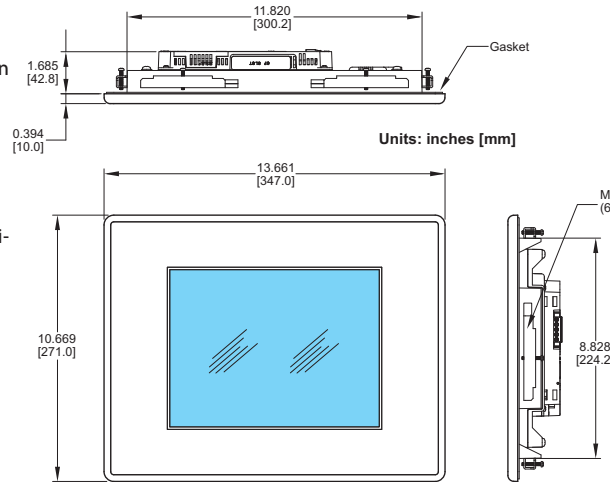


Features

- 10.4" diagonal color TFT (Thin Film Transfer) LCD display with 65K colors
- 640 x 480 pixel resolution
- 270 NITS display brightness
- 50,000 hour average backlight lifetime, user replaceable
- Analog resistive (1024 X 1024) touch screen allowing unlimited touch areas
- USB port B (program/download) and USB port A (USB device options)
- Ethernet 10/100 Base-T port (program/download & PLC comm)
- Serial PLC interface (RS-232/422/485)
- 1 GByte CompactFlash card slot, built-in
- Expansion assembly (optional) for CompactFlash devices (use with optional CF Card Interface Module)
- 24 VDC powered, 110 VAC power adapter (optional)
- Audio Line Out, stereo - requires amplifier and speaker(s)
- 10 MByte project memory
- Data logging
- 0 to 50°C (32 to 122°F) operating temperature range
- NEMA 4/4X, IP-65 compliant when mounted correctly, indoor use only
- Slim design save panel space
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase

Function	Available	Associated Features
Ethernet	Yes	FTP - Email - Web Server
USB	Yes	Data Logging
Compact Flash	Yes	Data Logging/Project
Expansion Assembly	Yes	CF Module & future modules
Audio Out	Yes	Speaker/Amplifier Connection

Dimensions

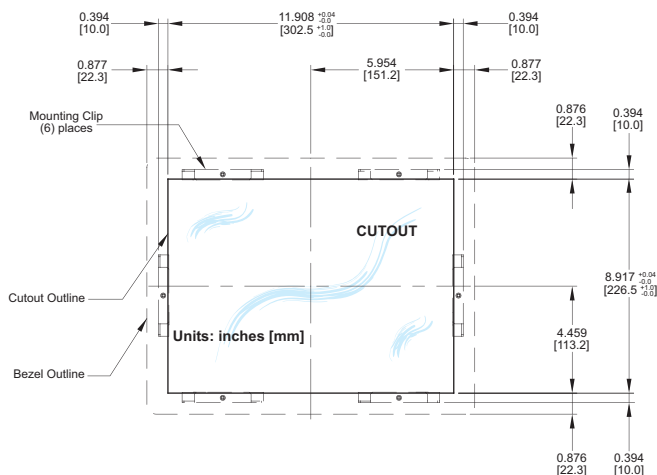


PLC Drivers

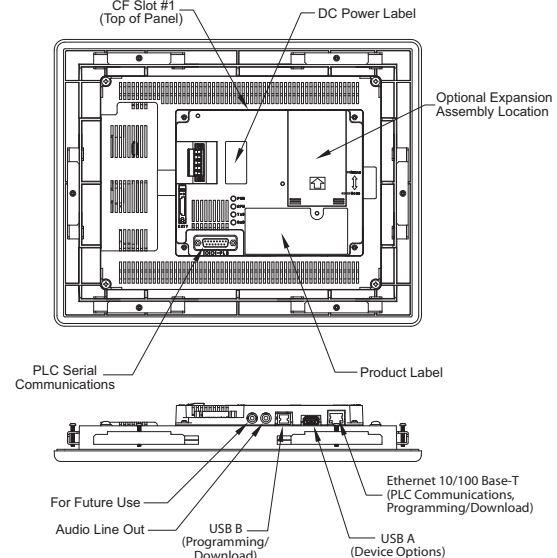
Serial	Avail.
AutomationDirect CLICK	Yes
Direct LOGIC K-sequence	Yes
Direct NET	Yes
Modbus (Koyo Addressing)	Yes
Allen-Bradley DF1 Full & Half Duplex	Yes
Allen-Bradley PLC5 DF1	Yes
Allen-Bradley DH-485	Yes
Allen-Bradley DF1 Full & Half Duplex - Tag Based *	Yes
Modbus RTU	Yes
Entivity Modbus RTU	Yes
GE SNPX (90/30, 90/70), Micro 90, VersaMax Micro)	Yes
Omron Host Link C200 Adapter C500	Yes
Omron FINS (CJ1, CS1)	Yes
Mitsubishi FX	Yes
Mitsubishi Q02, Q02H, Q06H, Q12H, Q25H	Yes
Mitsubishi Q, QnA Serial	Yes
Siemens PPI (S7-200 CPU)	Yes
Ethernet	
Direct LOGIC Ethernet	Yes
Modbus TCP/IP	Yes
Entivity Modbus TCP/IP	Yes
Allen-Bradley EtherNet/IP™ Server - Generic I/O Messaging*	Yes
Allen-Bradley EtherNet/IP Client - Tag Based*	Yes
Allen-Bradley EtherNet/IP Client - MicroLogix 1100 & SLC 5/05 via native Ethernet port; MicroLogix 1000, 1100, 1200, 1500 & SLC 5-03, 04, 05 via AB ENI Adapter	Yes
Omron FINS	Yes
Mitsubishi Q, QnA Ethernet	Yes
Siemens (S7-300 CPU, S7-200)	Yes

* ControlLogix™ and CompactLogix™

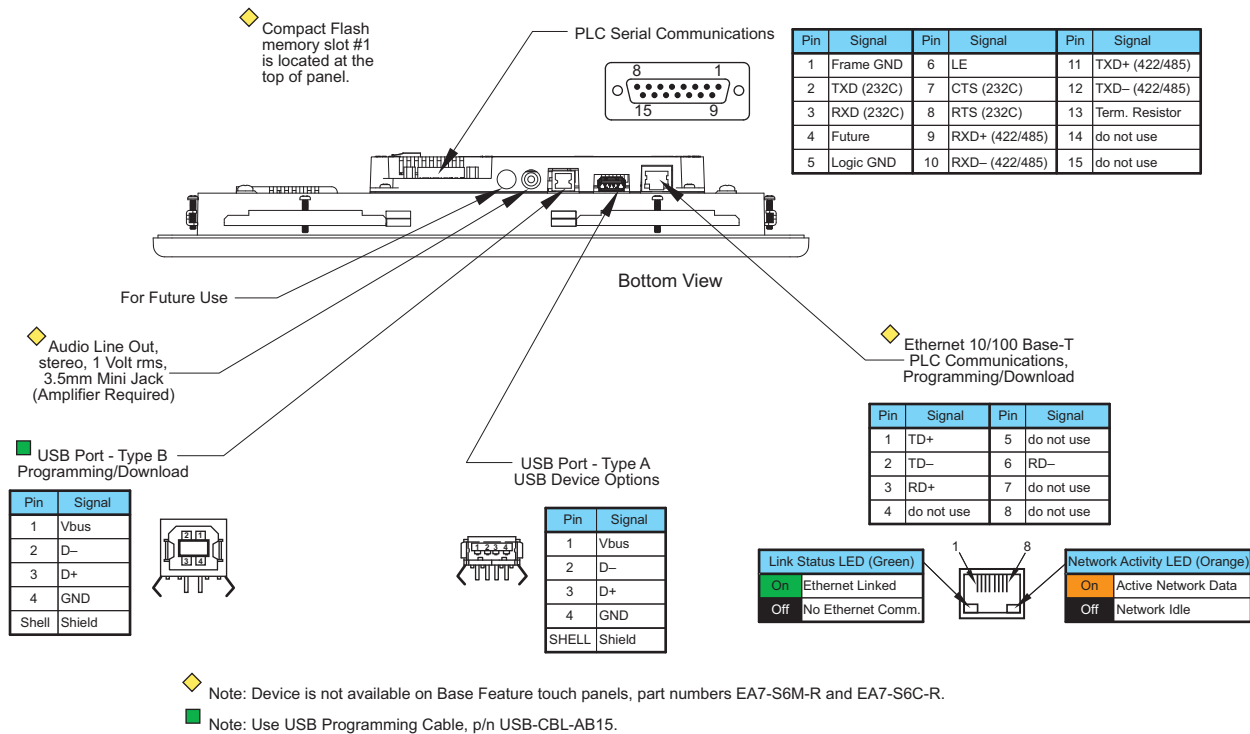
Mounting Cutout



Ports & Memory Expansion



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

The Ethernet port has an RJ-45 8-wire modular connector with green and orange LEDs.

- The orange LED indicates the Ethernet communication status. It illuminates when there is data activity on the network.
- The green LED indicates link status and illuminates when a link is established.

Ethernet connections to PLCs/PCs:

- **DirectLOGIC** Ethernet
- Modbus TCP/IP
- Allen-Bradley EtherNet/IP™ Server - Generic I/O Messaging (ControlLogix™, CompactLogix™, and FlexLogix™)
- Allen-Bradley EtherNet/IP Client - Tag Based (ControlLogix, CompactLogix, and FlexLogix™)
- Allen-Bradley EtherNet/IP Client - MicroLogix 1100 & SLC 5/05, both via native Ethernet port
- Allen-Bradley MicroLogix 1000, 1100, 1200, 1500, SLC 5-03/04/05, all via ENI Adapter
- Entivity Modbus TCP/IP
- Omron Ethernet FINS
- Siemens Ethernet ISO over TCP

Note: The base panels (-R part numbers) do not include an Ethernet port, and do not have these capabilities.

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 for all models and can be used to connect various USB HID (Human Input Device) devices to the panel, such as:

- USB pen drives, (SDCZ4-2048-A10)
- USB keyboards
- USB barcode scanners
- USB card scanners

C-more can log data to the USB pen 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.

PLC Port

The PLC port is an RS-232, RS-422 or RS-485 female 15-pin D-sub connector. Use this port for serial connections to PLCs. The port supports the following PLC protocols:

All AutomationDirect.com PLCs:
DirectLOGIC K-sequence
DirectNET
 Modbus (Koyo Addressing)
 CLICK

Allen Bradley:
 DF1 Full & Half Duplex
 DF1 Full & Half Duplex - Tag Based
 PLC5 DF1
 DH485

Modbus RTU
 Entivity Modbus RTU
 GE SNPX (90/30, 90/70, Micro 90, VersaMax Micro)

Omron:
 Host Link (C200 Adapter, C500)
 FINS (CJ1, CS1)

Mitsubishi:
 Melsec FX
 Q/QnA
 Siemens PPI (S7-200 CPU)

C-more PLC Comm Protocols & Cables

PLC Compatibility Table			
PLC Family	Model	Protocols	
Allen-Bradley	MicroLogix 1000/1100/1200/1500, SLC 5-01/02/03, PLC5	DH485/AIC/AIC+	
	MicroLogix 1000, 1100, 1200 and 1500	DF1 Half Duplex; DF1 Full Duplex	
	SLC 5-03/04/05		
	ControlLogix™, CompactLogix™, FlexLogix™	DF1 Full Duplex	
	PLC-5		
	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 & SLC 5/05, both via native Ethernet port			
MicroLogix 1000, 1100, 1200, 1500 & SLC 5-03/04/05, all via ENI Adapter			
Modbus TCP/IP	Modbus TCP/IP devices	Modbus TCP/IP	
GE	90/30, 90/70, Micro 90, VersaMax Micro	SNPX	
Mitsubishi	FX Series	FX Direct	
	Q02, Q02H, Q06H, Q12H, Q25H	Q CPU	
	Q, QnA Serial	QnA Serial	
	Q, Qna Ethernet	QnA Ethernet	
Omron	C200 Adapter, C500	Host Link	
	CJ1/CS1 Serial, CJ1/CS1 Ethernet	FINS	
Modicon	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	
	S7-300 CPU, S7-200 Ethernet	Ethernet ISO over TCP	
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
			K-Sequence Direct NET
		D2-240	K-Sequence
			K-Sequence Direct NET Modbus (Koyo addressing)
		DL205	D2-250/D2-250-1/D2-260
	D2-240/D2-250-1/D2-260 Using DCM		Direct NET Modbus (Koyo addressing)
			H2-ECOM/H2-ECOM100
	DL305		D3-330/330P (Requires the use of a Data Communications Unit)
		D3-340	Direct NET K-Sequence
			Direct NET Modbus (Koyo addressing)
		D3-350	Direct NET Modbus (Koyo addressing)
			D3-350 DCM
		DL405	D4-430
	K-Sequence Direct NET		
	D4-440		K-Sequence Direct NET
			K-Sequence Direct NET Modbus (Koyo addressing)
	D4-450		K-Sequence Direct NET Modbus (Koyo addressing)
			Direct NET Modbus (Koyo addressing)
	All with 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
AutomationDirect CLICK, Direct LOGIC PLC RJ-12 port, DL05, DL06, DL105, DL205, D3-350, D4-450 & H2-WinPLC (RS-232C)	EA-2CBL	<--->
Direct LOGIC (VGA Style) 15-pin port, DL06, D2-250 (250-1), D2-260 (RS-232C)	EA-2CBL-1	<--->
Direct LOGIC PLC RJ-11 port, D3-340 (RS-232C)	EA-3CBL	<--->
Direct LOGIC DL405 PLC 15-pin D-sub port, DL405 (RS-232C)	EA-4CBL-1	<--->
Direct LOGIC PLC 25-pin D-sub port, DL405, D3-350, DL305, DCU and all DCMs (RS-232C)	EA-4CBL-2	<--->
Allen-Bradley MicroLogix 1000, 1100, 1200 & 1500 (RS-232C)	EA-MLOGIX-CBL	<--->
Allen-Bradley SLC 5-03/04/05 ControlLogix, CompactLogix, FlexLogix, DF1 port (RS-232C)	EA-SLC-232-CBL	<--->
Allen-Bradley PLC-5 DF1 port (RS-232C)	EA-PLC5-232-CBL	<--->
Allen-Bradley SLC 500 DH485 port (RS-485A)	EA-DH485-CBL	<--->
GE 90/30, 90/70, Micro 90, VersaMax Micro 15-pin D-sub port (RS-422A)	EA-90-30-CBL	<--->
MITSUBISHI FX Series 25-pin port (RS-422A)	EA-MITSU-CBL	<--->
MITSUBISHI FX Series 8-pin mini-DIN (RS-422A)	EA-MITSU-CBL-1	<--->
OMRON Host Link C200 Adapter, C500 (RS-232C)	EA-OMRON-CBL	<--->

NOTE: EZTouch serial PLC communication cables are compatible with C-more touch panels.

EA-2CBL



EA-2CBL-1



- PLC Overview
- DL05/06 PLC
- DL105 PLC
- DL205 PLC
- DL305 PLC
- DL405 PLC
- Field I/O
- Software
- C-more HMI's
- Other HMI
- AC Drives
- Motors
- Steppers/Servos
- Motor Controls
- Proximity Sensors
- Photo Sensors
- Limit Switches
- Encoders
- Current Sensors
- Pushbuttons/Lights
- Process
- Relays/Timers
- Comm.
- TB's & Wiring
- Power
- Circuit Protection
- Enclosures
- Appendix
- Part Index

C-more Computer Programming Connections

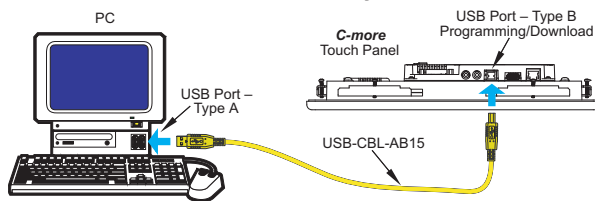
Using the **C-more** Programming Software for project development, the touch panel can be connected to a PC (personal computer) in one of several ways:

- Connect a USB Programming Cable (USB-CBL-AB15) from a USB port type A on the PC to the USB type B programming port on the C-more touch panel. The USB connection is for direct connection only and does not support USB hubs.
- Connect the **C-more** touch panel to a PC via an Ethernet hub or switch, and CAT5 Ethernet cables (full feature panels only). Multiple panels can be programmed in this configuration.
- Use an Ethernet crossover cable directly between the **C-more** touch panel's Ethernet port and the PC Ethernet port (full feature panels only).

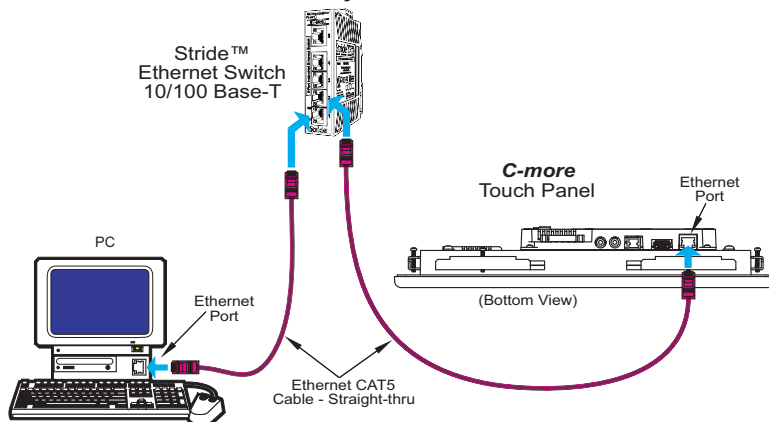
Following are the minimum system requirements for running **C-more** Programming Software, p/n EA-PGMSW, on a PC:

- Personal Computer with a 333 MHz or higher processor (CPU) clock speed recommended; (Windows® 2000 with Service Pack 4 or Windows® XP; 800 MHz or higher processor (CPU) clock speed recommended (Windows® Vista (32 bit)); Intel® Pentium/Celeron family, or AMD® K6/Athlon/Duron family, or compatible processor recommended)
- Keyboard and Mouse or compatible pointing device
- Super VGA color video adapter and monitor with at least 800 x 600 pixels resolution (1024 x 768 pixels recommended) 64K color minimum
- 300 MB free hard-disk space
- 128 MB free RAM (512 MB recommended); 512 MB free RAM (1 GB recommended) for Vista
- CD-ROM or DVD drive for installing software from the CD
- USB port or Ethernet 10/100 Mbps port for project transfer from software to touch panel (Ethernet port not available on -R models)
- Operating System - Windows® Vista, Windows® XP Home / Professional Edition or Windows® 2000 with Service Pack 4.

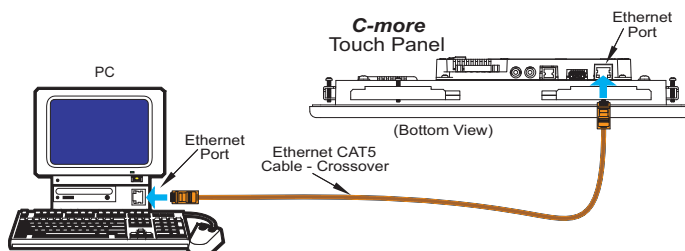
USB Connectivity



Ethernet Connectivity via a Hub or Switch



Ethernet Direct Connection



USB Programming Cable



Part No. **USB-CBL-AB15**

<--->

Other lengths available see USB-CBL-AB3, USB-CBL-AB6, USB-CBL-AB10 on page 9-27

Stride™ Ethernet Switch



Part No. **SE-SW5U**

<--->

Ethernet Configuration Kit



Part No. **RT-CNFGKIT**

<--->

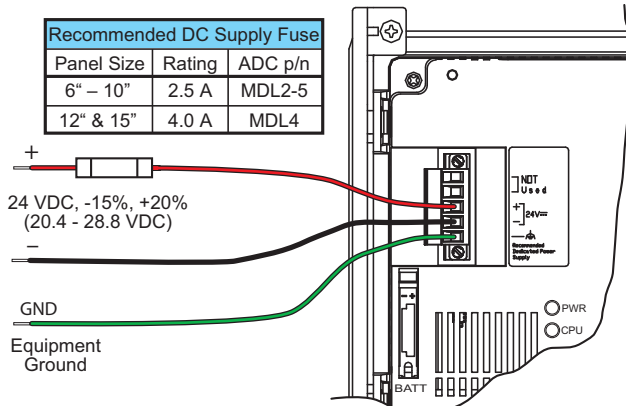
The Ethernet Configuration Kit includes a five-port 10/100 Base-T Ethernet switch, four straight-through cables, and one crossover cable. (The cables are at least five feet in length.) The kit provides a great convenience for configuring systems, demonstration systems or basic control projects using Ethernet.

C-more Power Connection Wiring

Providing Power to the Touch Panel

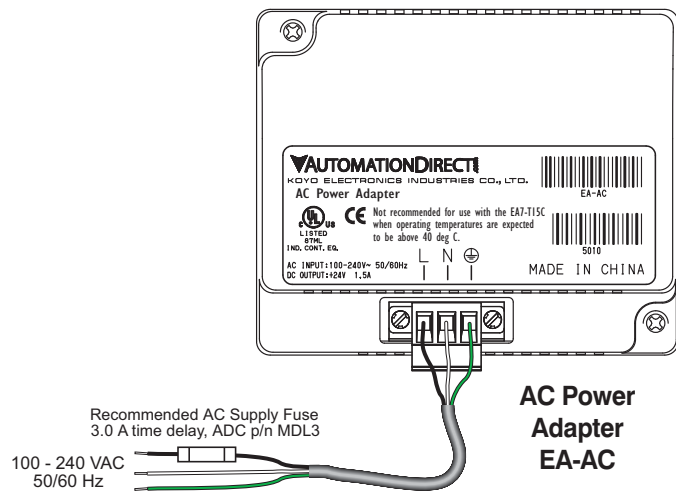
- Connect a dedicated 24 VDC switching power supply rated for a minimum of 1.5 Amps to the DC connector on the rear of the **C-more** touch panel. Connect the ground terminal to a proper equipment ground.
- or, install a **C-more** AC Power Adapter (EA-AC) to the rear of the touch panel and connect an AC voltage source of 100-240 VAC, 50/60Hertz, to its AC connector.
- then, turn on the power source and check the LED status indicators on the rear of the **C-more** touch panel for proper operation.

DC Wiring

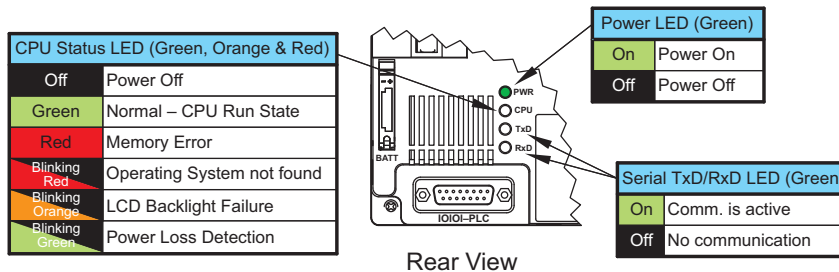


Recommended Power Supply:
AutomationDirect Part No. **PS24-050D**

AC Wiring



C-more LED Status Indicators



WARNING: To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to

personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call us at 1-800-633-0405 or 770-844-4200.

This publication is based on information that was available at the time it was printed.

At AutomationDirect.com® we constantly strive to improve our products and services, so we reserve the right to make changes to the products and/or publications at any time without notice and without obligation. This publication may also discuss features that may not be available in certain revisions of the product.

PLC Overview
DL05/06 PLC
DL105 PLC
DL205 PLC
DL305 PLC
DL405 PLC
Field I/O
Software
C-more HMIs
Other HMI
AC Drives
Motors
Steppers/Servos
Motor Controls
Proximity Sensors
Photo Sensors
Limit Switches
Encoders
Current Sensors
Pushbuttons/Lights
Process
Relays/Timers
Comm.
TB's & Wiring
Power
Circuit Protection
Enclosures
Appendix
Part Index

The C-more Family

Features	Base Model	Full Featured Model
More durable		
- 50,000 hour bulb life	y	y
- Replaceable bulbs on 8", 10", 12", and 15" models	-	y
Better screens		
- Bright screens (NIT ratings)	y	y
- TFT with 65,536 colors available on all sizes	-	y
- 256 color STN screens on 6" models	y	y
More flexibility		
- Analog touch screen (no touch cell grid!)	y	y
- Overlapping objects	y	y
Better communications		
- USB Port-A	y	y
- USB Port-B	y	y
- Built-in Ethernet port	-	y
- Built-in serial communications	y	y
More capacity		
- Built-in 10Mbyte project memory	y	y
- CompactFlash card slot #1 (data logging)	-	y
- Supports USB memory devices (data logging)	y	y
- Symbol Factory™ library with 4,000 symbols.	y	y
More objects		
- Over 50 objects including 16 pen trends, switches, PID trend faceplate, PID bar graph faceplate	y	y
- Create custom objects and store in user library	y	y
- Improved multilanguage support for objects in German, French, Italian, Spanish, Chinese and Japanese characters	y	y
More high end features		
- Project simulator	y	y
- Bitmap animation	y	y
- E-mail messaging	-	y
- Built-in FTP server	-	y
- Pop-up window within a touch screen	y	y
- Data logging to USB/CompactFlash	USB only	y
- Historical alarms with time and date stamp along with alarm frequency reporting.	y	y
- Supports simultaneous communication to multiple brands of PLCs.	-	y
- Event Manager	y	y
- Audio line out	-	y
Improved ease of use		
- Improved multi-language support.	y	y
- Improved dialog boxes	y	y
- "Power User" property box	y	y
- More fonts and sizes	y	y
- Master background screens	y	y
- Improved recipes	y	y
Optional accessories		
- Optional "Screw on" 110VAC power supply	y	y
- Expansion unit for additional CompactFlash	-	y

Supported drivers

All AutomationDirect.com *Direct*LOGIC PLCs and PC-based control:

K-Sequence (DL05/06/105/205/350/405)

*Direct*NET (DL05/06/105/205/350/405)

*Direct*NET (DL330/340)

*Direct*LOGIC Modbus (DL05/06/205/350/405)

ECOM Ethernet (DL05/06/205/405) Ethernet

Entivity Modbus RTU (H2-WinPLC)

Entivity Modbus TCP/IP Ethernet (H2-WinPLC)

Modicon Modbus RTU

Modicon Modbus TCP/IP Ethernet

Allen-Bradley:

AB DF1 Full Duplex (SLC500)

AB DF1 Half Duplex (MicroLogix/SLC500)

AB DF1 Full Duplex (PLC5)

AB DH485 (MicroLogix/SLC500/AIC)

AB DF1 Full Duplex (MicroLogix)

AB DF1 Full Duplex Tag-Based (Control/CompactLogix/FlexLogix)

AB DF1 Half Duplex Tag-Based (Control/CompactLogix/FlexLogix)

AB EtherNet/IP Client (MicroLogix 1100)

AB EtherNet/IP Client (SLC5/05/ENI Adapter)

AB EtherNet/IP Client Tag-Based (Control/CompactLogix/FlexLogix)

AB EtherNet/IP Server:

(Generic IO Messaging) (Control/CompactLogix/FlexLogix)

GE 90/30 and 90/70 SNPX

Omron Host Link Adapter (C200/C500)

Omron FINS Serial (CS/CJ)

Mitsubishi Direct FX

Allen-Bradley Tag Import

Import tags directly from the RSLogix 5000 L5K file. **C-more** Software now supports direct insertion of ControlLogix, CompactLogix and FlexLogix tags from the PLC into **C-more** (no mapping or translations required).