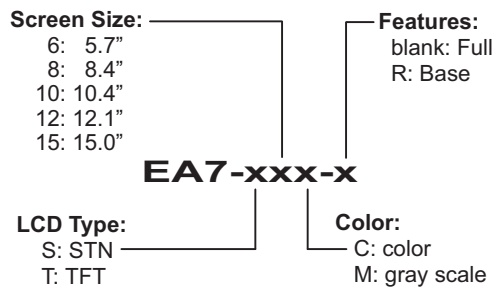


C-more Operator Panels Overview

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" Adapter	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" Adapter	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

Specification	Model	6" STN grayscale w/ base features	6" STN color w/ base features	6" STN grayscale w/ full features	6" STN color w/ full features	6" TFT color w/ full features
Part Number		EA7-S6M-R	EA7-S6C-R	EA7-S6M	EA7-S6C	EA7-T6C
						
Price		<--->	<--->	<--->	<--->	<--->
Display Actual Size and Type		5.7" STN grayscale	5.7" STN color	5.7" STN grayscale	5.7" STN color	5.7" TFT color
Color Scale		15 shades of gray	256 colors	15 shades of gray	256 colors	65,536 colors
Display Viewing Area		4.54" x 3.4" [115.2 mm x 86.4 mm]				
Screen Pixels		320 x 240 (QVGA)				
Display Brightness		150 cd/m² (NITS)	200 cd/m² (NITS)	150 cd/m² (NITS)	200 cd/m² (NITS)	270 cd/m² (NITS)
LCD Panel Dot Pitch		0.36 mm x 0.36 mm				
Backlight Average Lifetime*		Approximately 50,000 hours				
Backlight User Replaceable		No				
Touch Panel Type		Analog Resistive (10-bit resolution, 1024 x 1024 touch area)				
CPU Type		32-Bit RISC CPU (333 MHz)				
Battery		Replaceable battery – ADC Part # D2-BAT-1 (Manufacturer Part # CR2354)				
System Memory		SDRAM 32 MBytes				
System Flash Memory		FLASH 32 MBytes				
Backup Memory (SRAM)		Control data backup memory (SRAM) 256 KBytes				
Logging Data Memory		USB Pen Drive p/n SDCZ4-2048-A10 (Optional)		CompactFlash Memory Card p/n EA-CF-CARD, 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)				
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-232/422/485 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		not available		Ethernet 10/100 Base-T		
Audio Line Out		not available		Audio Line Out, 1 Volt rms, stereo – requires amplifier and speaker(s)		
CF Card – Slot #1		not available		Optional: CompactFlash Memory Card p/n EA-CF-CARD, industrial grade, high speed, CF slot #1 located on top side of touch panel.		
Expansion Assembly (p/n EA-EXP-OPT)		not available		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 oper. range) (Use AC Power Adapter, p/n EA-AC, to power panel from a 100-240 VAC, 50/60 Hz. power source.)				
Power Consumption		9W @ 24 VDC	10 W @ 24 VDC	10 W @ 24 VDC	11 W @ 24 VDC	13 W @ 24 VDC
Recommended Input Fuse		3.0 A DC slow blow				
Operating Temperature		0 to 50°C (32 to 122°F) Max surrounding air temperature rating: 50°C				
Storage Temperature		–20 to +60°C (–4 to +140°F)				
Humidity		10–85% RH, non-condensing				
Noise Immunity		Noise voltage: 1,000 Vp-p, Pulse width: 1 µs, Rise time: 1 ns				
Withstand Voltage		1,000 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		IP-65 Meets UL Type 4X when mounted correctly. For indoor use only.				
Environment		For use in Pollution Degree 2 Environment				
Agency Approvals		UL, cUL, CE				
Dimensions		6.140" x 8.047" x 1.697" [156.0 mm x 204.4 mm x 43.1 mm]				
Weight		1.46 lb. [660 g]	1.39 lb. [630 g]	1.50 lb. [680 g]	1.43 lb. [650 g]	1.52 lb. [690 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 6" STN Grayscale Touch Panel - Base Model

The **C-more** 6" grayscale base touch panel has a 5.7" diagonal analog (1024 X 1024) touch screen with a 320 x 240 (QVGA) pixel resolution STN LCD (liquid crystal display) with 15 shades of gray. **C-more** 6" touch panels can be directly mounted into EZTouch 6" slim touch panel cutouts. **Use the optional 6" Adapter Plate (EA-6-ADPTR) to retrofit C-more 6" touch panels into EZTouch 6" non-slim (wide bezel) touch panel cutouts.**

Part No. EA7-S6M-R



<--->



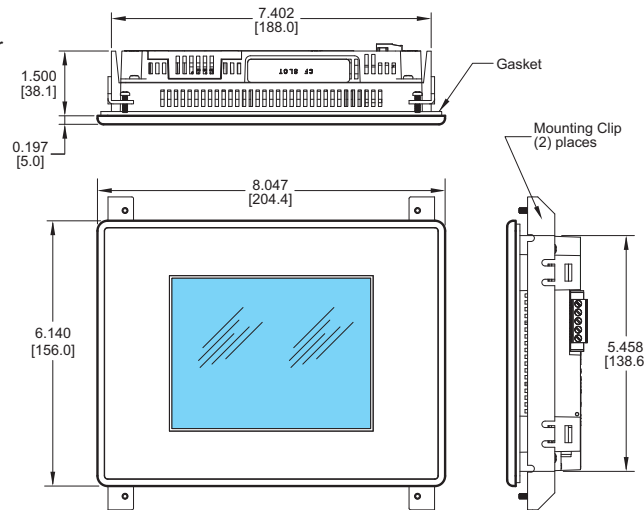
Features

- 5.7" diagonal color STN (Super Twisted Nematic) LCD display with 15 shades of gray
- 320 x 240 pixel resolution
- 150 NITS display brightness
- 50,000 hour average backlight lifetime
- Analog resistive (1024 X 1024) touch screen allowing unlimited touch areas
- USB port B (program/download) and USB port A (USB device options)
- Serial PLC interface (RS-232/422/485)
- 24 VDC powered, 110 VAC power adapter (optional)
- 10 MByte project memory
- 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 saves panel space
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase

Function	Available	Associated Features
Ethernet	No	FTP - Email - Web Server
USB	Yes	Data Logging
Compact Flash	No	Data Logging/Project
Expansion Assembly	No	CF Module & future modules
Audio Out	No	Speaker/Amplifier Connection
Ethernet	No	Remote access over internet

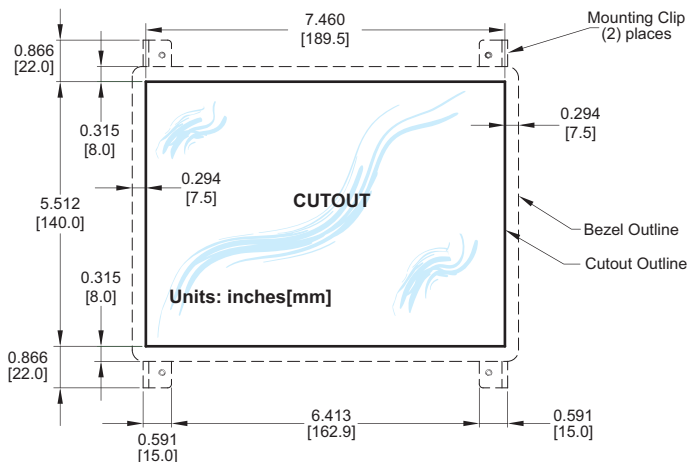
Dimensions

inches / [mm]

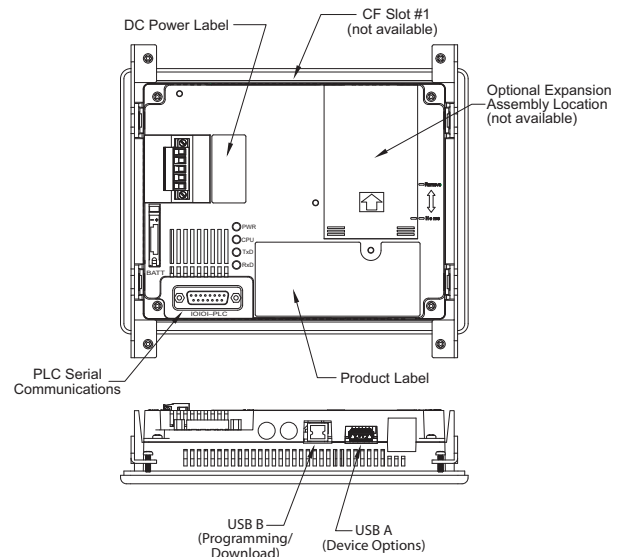


PLC Drivers	
Serial	Avail.
AutomationDirect CLICK	Yes
Direct LOGIC K-sequence	Yes
Direct NET	Yes
Modbus (Koyo Addressing)	Yes
Allen-Bradley DF1 Full & Half Duplex	Yes
Allen-Bradley PLC5 DF1	Yes
Allen-Bradley DH-485	Yes
Allen-Bradley DF1 Full & Half Duplex - Tag Based *	Yes
Modbus RTU	Yes
Entivity Modbus 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 *	
*The EA7-S6M-R and EA7-S6C-R units do not support Ethernet.	

Mounting Cutout



Ports & Memory Expansion



C-more 6" STN Color Touch Panel - Base Model

The **C-more 6"** STN color base touch panel uses a 5.7" diagonal analog (1024 X 1024) touch screen with a 320 x 240 (QVGA) pixel resolution STN LCD (liquid crystal display) with 256 colors. **C-more 6"** touch panels can be directly mounted into EZTouch 6" slim touch panel cutouts. *Use the optional 6" Adapter Plate (EA-6-ADPTR) to retrofit C-more 6" touch panels into EZTouch 6" non-slim (wide bezel) touch panel cutouts.*

Part No. EA7-S6C-R



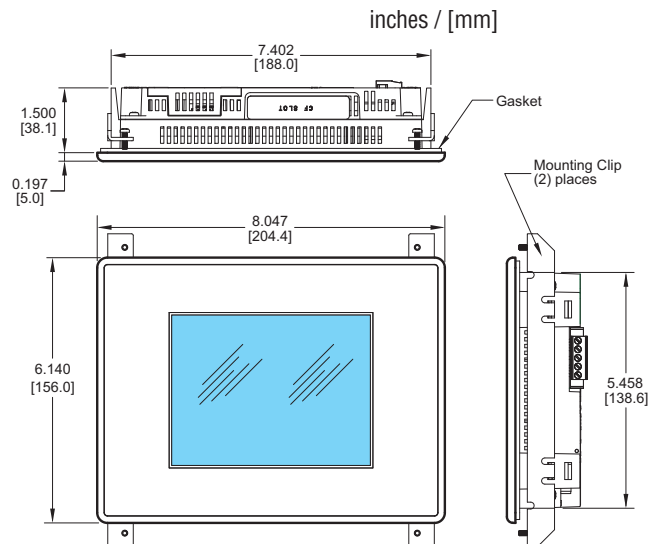
Features

- 5.7" diagonal color STN (Super Twisted Nematic) LCD display with 256 colors
- 320 x 240 pixel resolution
- 200 NITS display brightness
- 50,000 hour average backlight lifetime
- Analog resistive (1024 X 1024) touch screen allowing unlimited touch areas
- USB port B (program/download) and USB port A (USB device options)
- Serial PLC interface (RS-232/422/485)
- 24 VDC powered, 110 VAC power adapter (optional)
- 10 MByte project memory
- 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 saves panel space
- UL, cUL & CE agency approvals
- 2-year warranty from date of purchase

Function	Available	Associated Features
Ethernet	No	FTP - Email - Web Server
USB	Yes	Data Logging
Compact Flash	No	Data Logging/Project
Expansion Assembly	No	CF Module & future modules
Audio Out	No	Speaker/Amplifier Connection
Ethernet	No	Remote access over internet

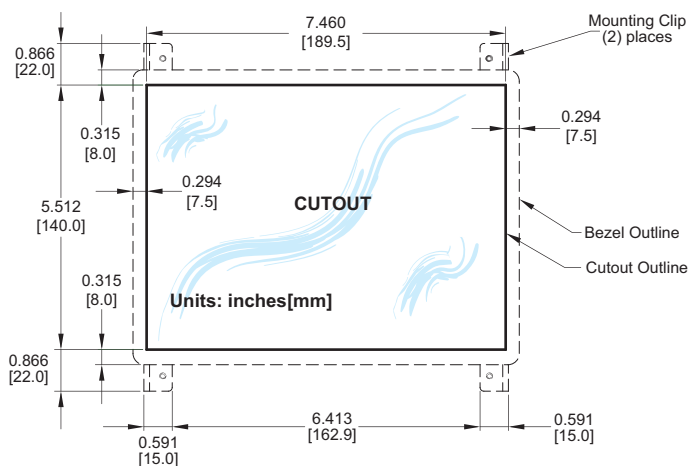


Dimensions

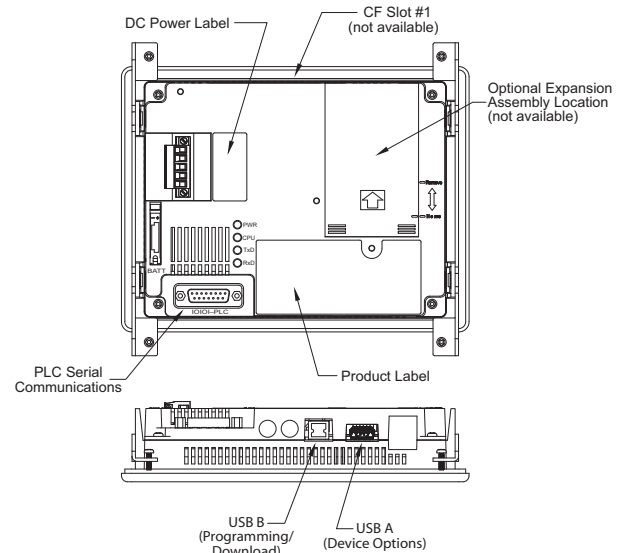


PLC Drivers	
Serial	Avail.
AutomationDirect CLICK	Yes
Direct LOGIC K-sequence	Yes
Direct NET	Yes
Modbus (Koyo Addressing)	Yes
Allen-Bradley DF1 Full & Half Duplex	Yes
Allen-Bradley PLC5 DF1	Yes
Allen-Bradley DH-485	Yes
Allen-Bradley DF1 Full & Half Duplex - Tag Based *	Yes
Modbus RTU	Yes
Entivity Modbus 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 *	
*The EA7-S6M-R and EA7-S6C-R units do not support Ethernet.	

Mounting Cutout



Ports & Memory Expansion



C-more 6" STN Grayscale Touch Panel - Full Model

The **C-more** 6" grayscale full featured touch panel has a 5.7" diagonal analog (1024 X 1024) touch screen with a 320 x 240 (QVGA) pixel resolution STN LCD (liquid crystal display) with 15 shades of gray. **C-more** 6" touch panels can be directly mounted into EZTouch 6" slim touch panel cutouts. **Use the optional 6" Adapter Plate, (EA-6-ADPTR) to retrofit C-more 6" touch panels into EZTouch 6" non-slim (wide bezel) touch panel cutouts.**

Part No. EA7-S6M

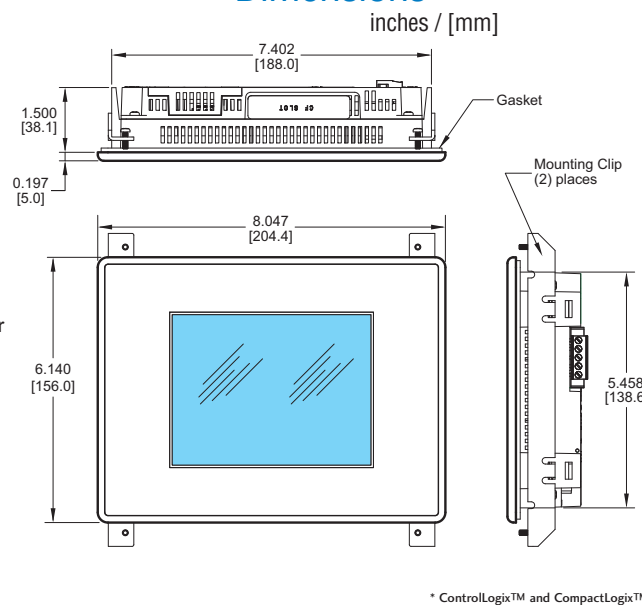


Features

- 5.7" diagonal color STN (Super Twisted Nematic) LCD display with 15 shades of gray
- 320 x 240 pixel resolution
- 150 NITS display brightness
- 50,000 hour average backlight lifetime
- 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)
- Remote Internet Access
- Serial PLC interface (RS-232/422/485)
- 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 saves 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
Ethernet	Yes	Remote access over Internet

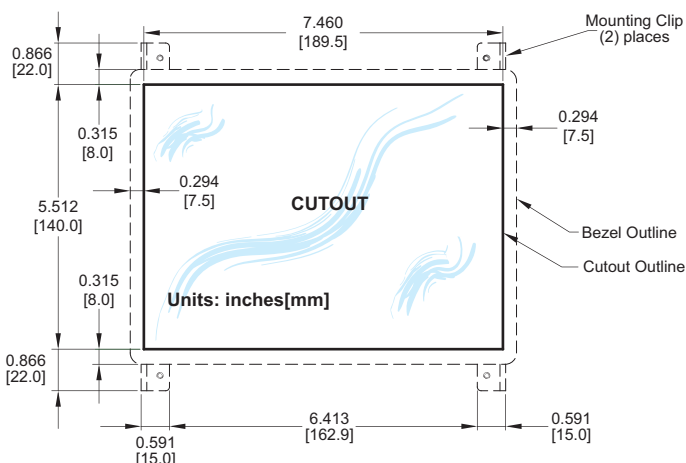
Dimensions



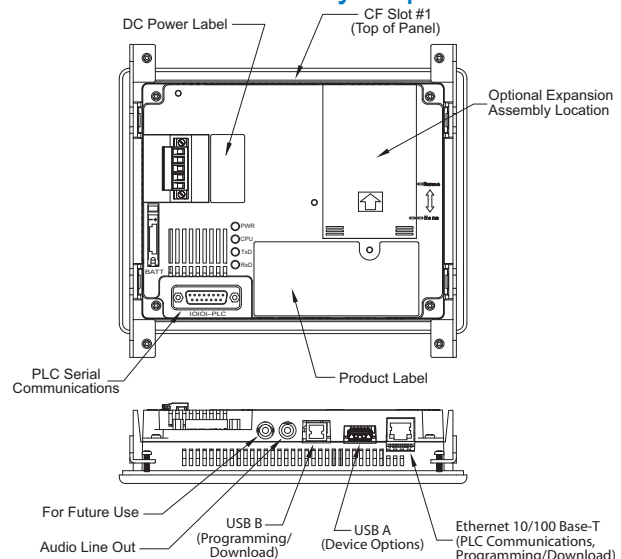
PLC Drivers	
Serial	Avail.
AutomationDirect CLICK	Yes
Direct LOGIC K-sequence	Yes
Direct NET	Yes
Modbus (Koyo Addressing)	Yes
Allen-Bradley DF1 Full & Half Duplex	Yes
Allen-Bradley PLC5 DF1	Yes
Allen-Bradley DH-485	Yes
Allen-Bradley DF1 Full & Half Duplex - Tag Based *	Yes
Modbus RTU	Yes
Entivity Modbus 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 (S7-200 CPU, S7-300 CPU)	Yes

* ControlLogix™ and CompactLogix™

Mounting Cutout



Ports & Memory Expansion



C-more 6" STN Color Touch Panel - Full Model

The **C-more 6"** STN color full featured touch panel uses a 5.7" diagonal analog (1024 X 1024) touch screen with a 320 x 240 (QVGA) pixel resolution STN LCD (liquid crystal display) with 256 colors. **C-more 6"** touch panels can be directly mounted into EZTouch 6" slim touch panel cutouts. **Use the optional 6" Adapter Plate (EA-6-ADPTR) to retrofit C-more 6" touch panels into EZTouch 6" non-slim (wide bezel) touch panel cutouts.**

Part No. EA7-S6C

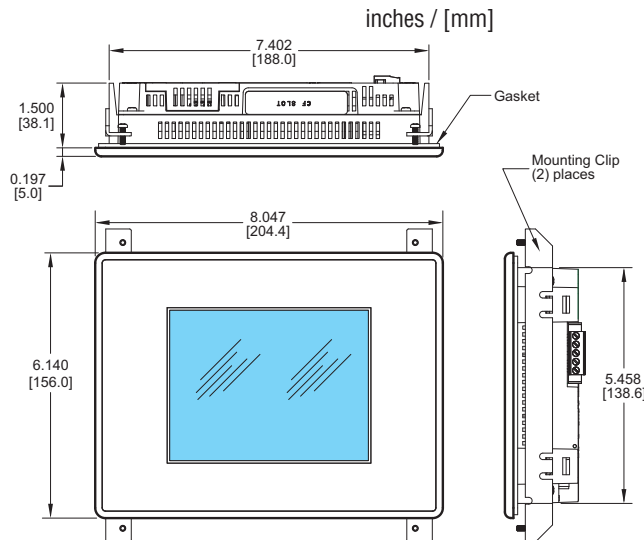


Features

- 5.7" diagonal color STN (Super Twisted Nematic) LCD display with 256 colors
- 320 x 240 pixel resolution
- 200 NITS display brightness
- 50,000 hour average backlight lifetime
- 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)
- Remote Internet Access
- Serial PLC interface (RS-232/422/485)
- 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 saves 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
Ethernet	Yes	Remote access over Internet

Dimensions

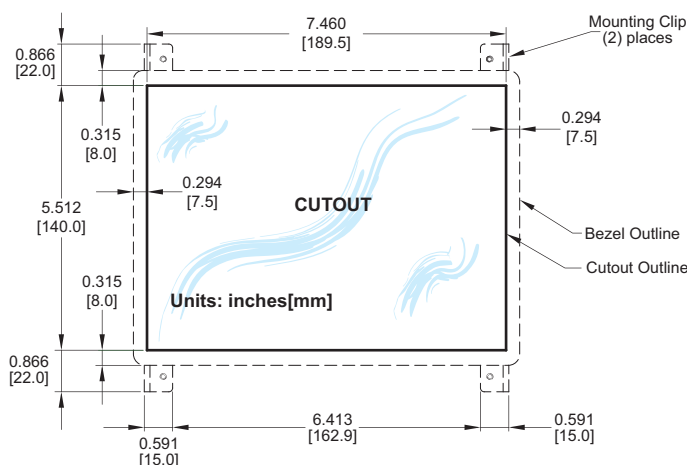


<--->

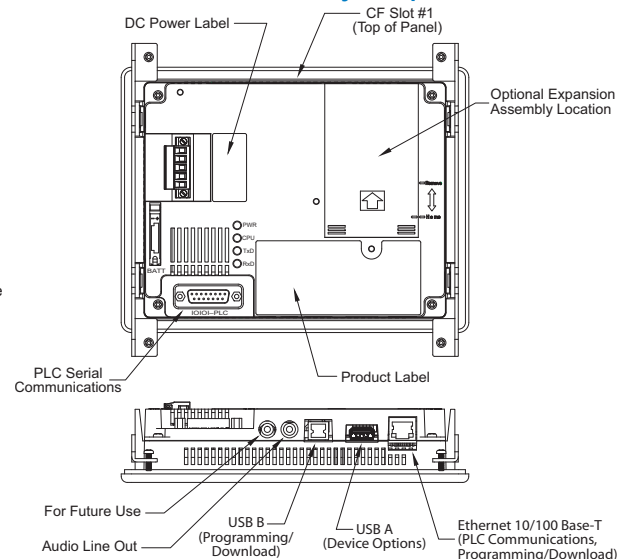
PLC Drivers	
Serial	Avail.
AutomationDirect CLICK	Yes
Direct LOGIC K-sequence	Yes
Direct NET	Yes
Modbus (Koyo Addressing)	Yes
Allen-Bradley DF1 Full & Half Duplex	Yes
Allen-Bradley PLC5 DF1	Yes
Allen-Bradley DH-485	Yes
Allen-Bradley DF1 Full & Half Duplex - Tag Based*	Yes
Modbus RTU	Yes
Entivity Modbus RTU	Yes
GE SNIPX (90/30, 90/70), Micro 90, VersaMax Micro)	Yes
Omron Host Link	Yes
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 (S7-200 CPU, S7-300 CPU)	Yes

* ControlLogix™ and CompactLogix™

Mounting Cutout



Ports & Memory Expansion



C-more 6" TFT Color Touch Panel - Full Model

The **C-more 6"** TFT color full featured touch panel uses a 5.7" diagonal analog (1024 X 1024) touch screen with a 320 x 240 (QVGA) pixel resolution TFT LCD (liquid crystal display) with 65K colors. **C-more 6"** touch panels can be directly mounted into EZTouch 6" slim touch panel cutouts. Use the optional 6" Adapter Plate (EA-6-ADPTR) to retrofit C-more 6" touch panels into EZTouch 6" non-slim (wide bezel) touch panel cutouts.

Part No. EA7-T6C

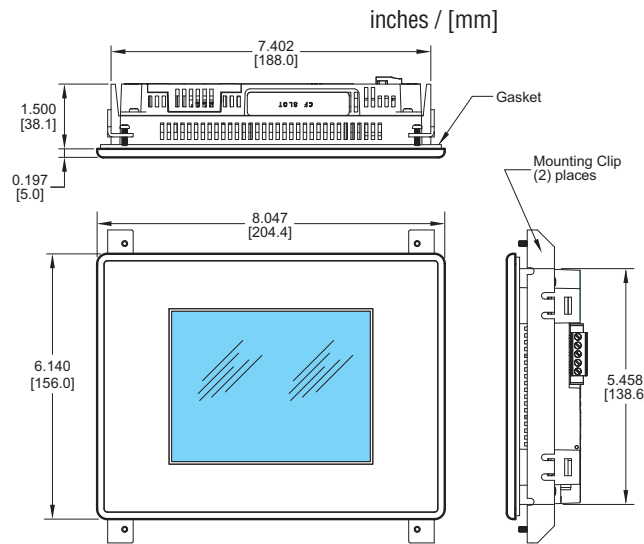


Features

- 5.7" diagonal color TFT (Thin Film Transfer) LCD display with 65K colors
- 320 x 240 pixel resolution
- 270 NITS display brightness
- 50,000 hour average backlight lifetime
- 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)
- Remote Internet Access
- 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 saves 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
Ethernet	Yes	Remote access over Internet

Dimensions

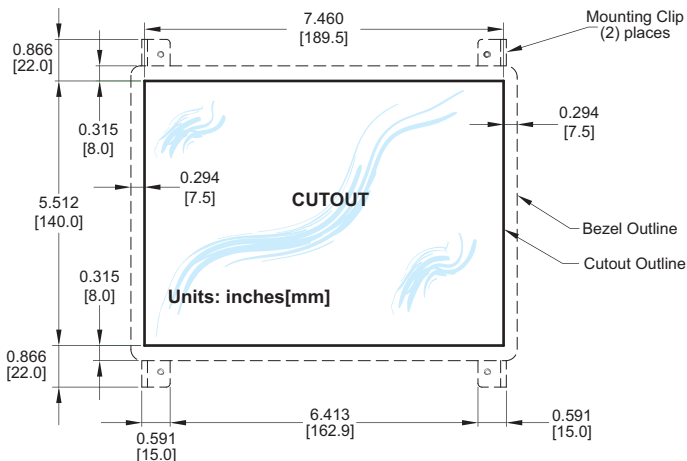


PLC Drivers

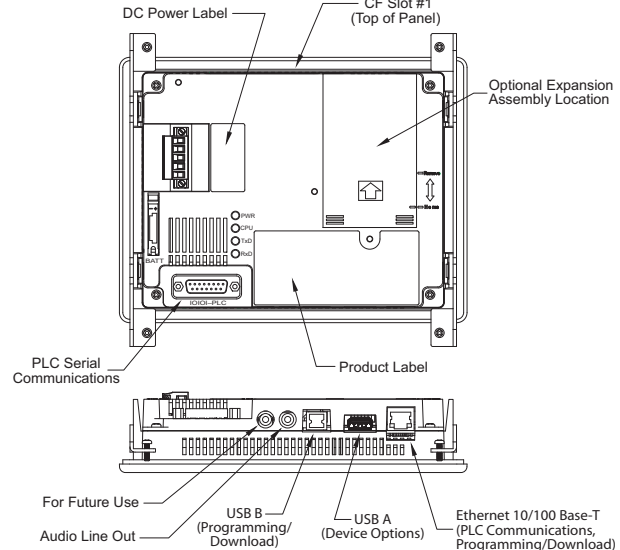
Serial	Avail.
AutomationDirect CLICK	Yes
Direct LOGIC K-sequence	Yes
Direct NET	Yes
Modbus (Koyo Addressing)	Yes
Allen-Bradley DF1 Full & Half Duplex	Yes
Allen-Bradley PLC5 DF1	Yes
Allen-Bradley DH-485	Yes
Allen-Bradley DF1 Full & Half Duplex - Tag Based *	Yes
Modbus RTU	Yes
Entivity Modbus RTU	Yes
GE SNPX (90/30, 90/70), Micro 90, VersaMax Micro	Yes
Omron Host Link	Yes
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 (S7-200 CPU, S7-300 CPU)	Yes

* ControlLogix™ and CompactLogix™

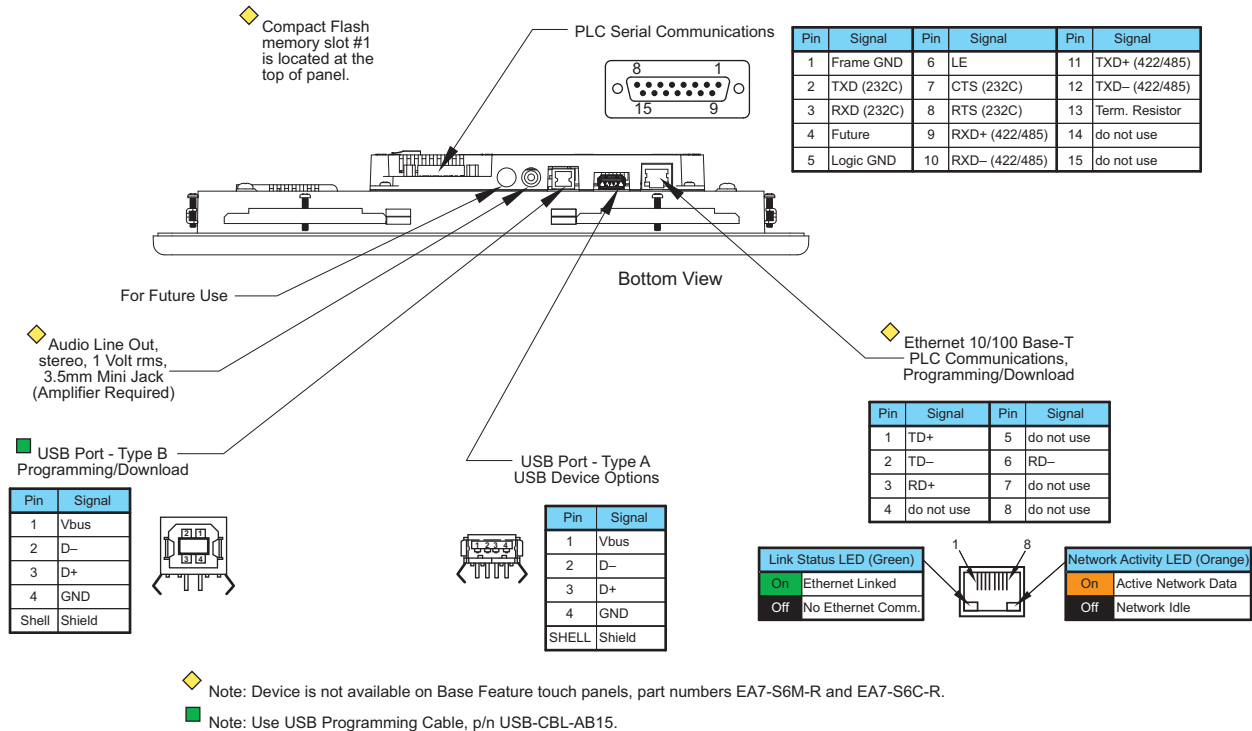
Mounting Cutout



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
- Remote Internet Access

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

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				Cable Description	Cable Part Number	Price
PLC Family	Model	Protocols				
Allen-Bradley	MicroLogix 1000/1100/1200/1500, SLC 5-01/02/03, PLC5	DH485/AIC/AIC+		AutomationDirect CLICK, Direct LOGIC PLC RJ-12 port, DL05, DL06, DL105, DL205, D3-350, D4-450 & H2-WinPLC (RS-232C)	EA-2CBL	<--->
	MicroLogix 1000, 1100, 1200 and 1500	DF1 Half Duplex; DF1 Full Duplex				
	SLC 5-03/04/05			Direct LOGIC (VGA Style) 15-pin port, DL06, D2-250 (250-1), D2-260 (RS-232C)	EA-2CBL-1	<--->
	ControlLogix™, CompactLogix™, FlexLogix™					
	PLC-5	DF1 Full Duplex				
	ControlLogix, CompactLogix, FlexLogix - Tag Based	DF1 Half Duplex; DF1 Full Duplex		Direct LOGIC PLC RJ-11 port, D3-340 (RS-232C)	EA-3CBL	<--->
	ControlLogix, CompactLogix, FlexLogix - Generic I/O Messaging					
	ControlLogix, CompactLogix, FlexLogix - Tag Based			Direct LOGIC DL405 PLC 15-pin D-sub port, DL405 (RS-232C)	EA-4CBL-1	<--->
Modbus TCP/IP	Modbus TCP/IP devices	Modbus TCP/IP		Direct LOGIC PLC 25-pin D-sub port, DL405, D3-350, DL305 DCU and all DCMs (RS-232C)	EA-4CBL-2	<--->
GE	90/30, 90/70, Micro 90, VersaMax Micro	SNPX		Allen-Bradley MicroLogix 1000, 1100, 1200 & 1500 (RS-232C)	EA-MLOGIX-CBL	<--->
Mitsubishi	FX Series	FX Direct		Allen-Bradley SLC 5-03/04/05 ControlLogix, CompactLogix, FlexLogix, DF1 port (RS-232C)	EA-SLC-232-CBL	<--->
	Q02, Q02H, Q06H, Q12H, Q25H	Q CPU				
	Q, QnA Serial	QnA Serial				
	Q, QnA Ethernet	QnA Ethernet				
Omron	C200 Adapter, C500	Host Link		Allen-Bradley PLC-5 DF1 port (RS-232C)	EA-PLC5-232-CBL	<--->
	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		Allen-Bradley SLC 500 DH485 port (RS-485A)	EA-DH485-CBL	<--->
Siemens	S7-200 CPU, RS-485 Serial	PPI		GE 90/30, 90/70, Micro 90, VersaMax Micro 15-pin D-sub port (RS-422A)	EA-90-30-CBL	<--->
	S7-200 CPU, S7-300 CPU; Ethernet	Ethernet ISO over TCP				
CLICK	all	AutomationDirect Modbus (CLICK)				
DirectLOGIC	DL05/DL06	all	K-Sequence Direct NET Modbus (Koyo addressing)	MITSUBISHI FX Series 25-pin port (RS-422A)	EA-MITSU-CBL	<--->
		H0-ECOM/H0-ECOM100	Direct LOGIC Ethernet			
	DL105	all	K-Sequence	MITSUBISHI FX Series 8-pin mini-DIN (RS-422A)	EA-MITSU-CBL-1	<--->
	DL205	D2-230	K-Sequence	OMRON Host Link C200 Adapter, C500 (RS-232C)	EA-OMRON-CBL	<--->
		D2-240	K-Sequence Direct NET			
		D2-250/D2-250-1/D2-260	K-Sequence Direct NET Modbus (Koyo addressing)			
		D2-240/D2-250-1/D2-260 Using DCM	Direct NET Modbus (Koyo addressing)			
	DL305	H2-ECOM/H2-ECOM100	Direct LOGIC Ethernet			
		D3-330/330P (Requires the use of a Data Communications Unit)	Direct NET			
		D3-340	Direct NET			
			K-Sequence			
		D3-350	Direct NET Modbus (Koyo addressing)			
		D3-350 DCM	Direct NET Modbus (Koyo addressing)			
	DL405	D4-430	K-Sequence Direct NET			
		D4-440	K-Sequence Direct NET			
		D4-450	K-Sequence 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)			



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

EA-2CBL



EA-2CBL-1



C-more Computer Programming Connections

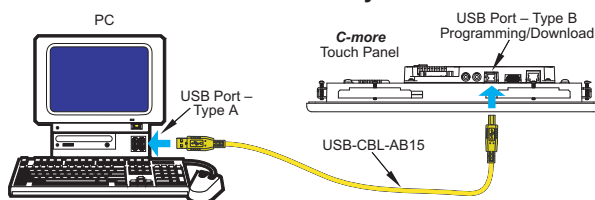
Using the **C-more** Programming Software for project development, the touch panel can be connected to a PC (personal computer) in one of several ways:

- 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).

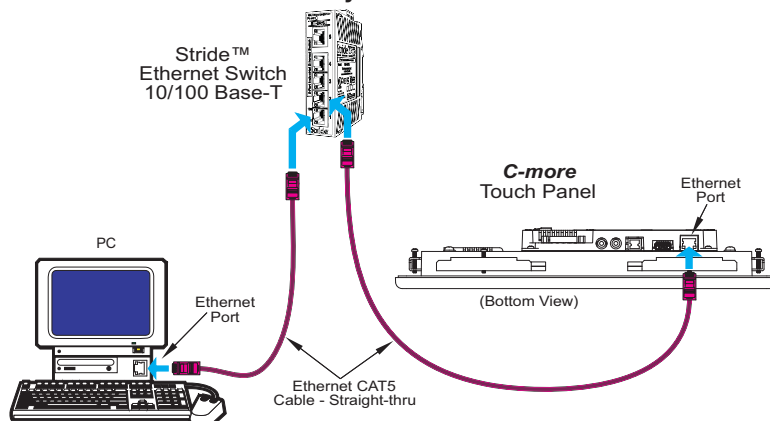
Following are the minimum system requirements for running **C-more** Programming Software, p/n EA-PGMSW, on a PC:

- 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.

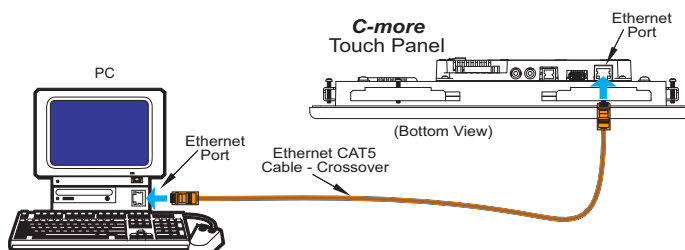
USB Connectivity



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

<--->

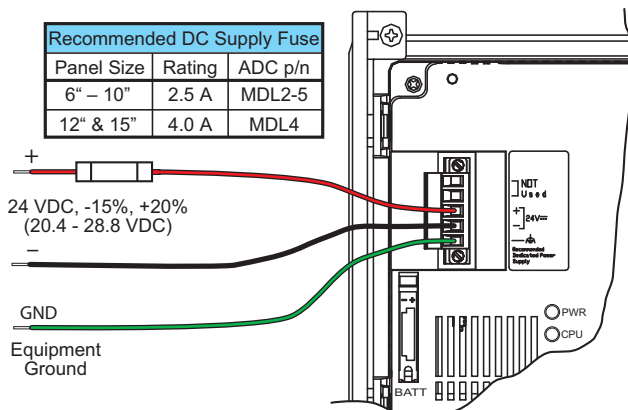
The Ethernet Configuration Kit includes a five-port 10/100 Base-T Ethernet switch, four straight-through cables, and one crossover cable. (The cables are at least five feet in length.) The kit provides a great convenience for configuring systems, demonstration systems or basic control projects using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

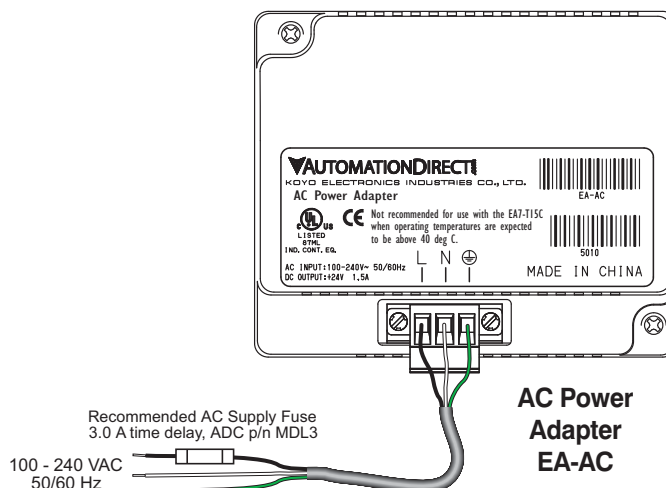


Recommended Power Supply:
AutomationDirect Part No. PS24-050D

Tightening Torque

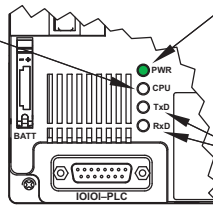
Power supply cable torque	71 - 85 oz-in (0.5 - 0.6 Nm)
Power connector mounting torque	71 - 85 oz-in (0.5 - 0.6 Nm)
Mounting flange screw torque	57 - 71 oz-in (0.4 - 0.5 Nm)

AC Wiring



C-more LED Status Indicators

CPU Status LED (Green, Orange & Red)	
Off	Power Off
Green	Normal - CPU Run State
Red	Memory Error
Blinking Red	Operating System not found
Blinking Orange	LCD Backlight Failure
Blinking Green	Power Loss Detection



Rear View

Power LED (Green)	
On	Power On
Off	Power Off

Serial Tx/RxD LED (Green)	
On	Comm. is active
Off	No communication



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.

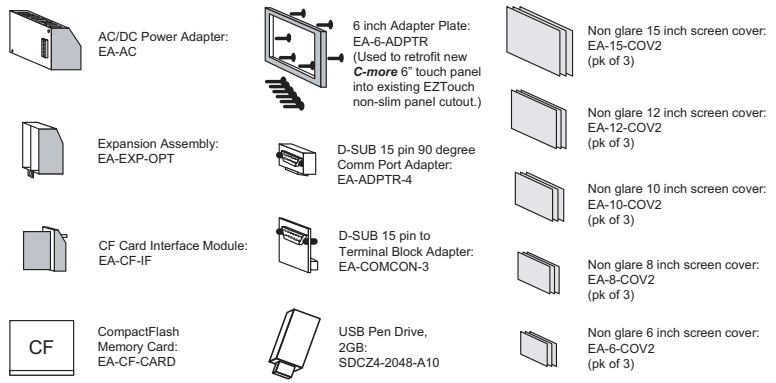
C-more Accessories

Accessories

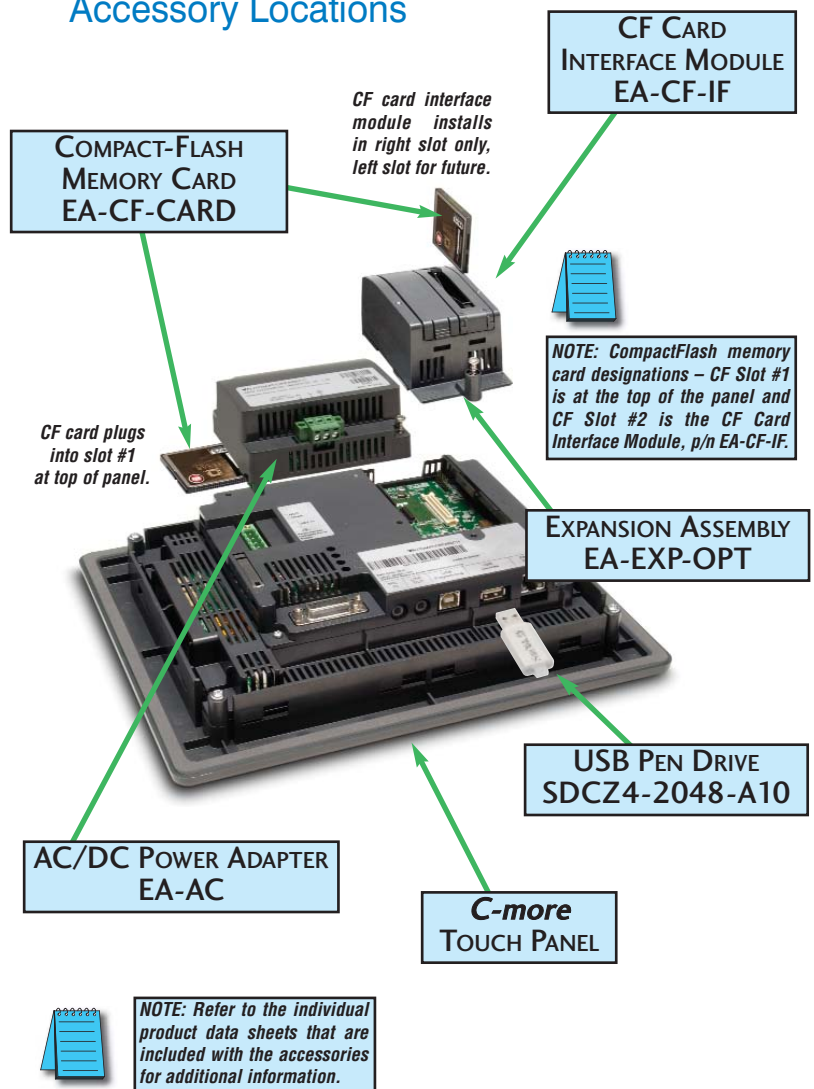
The **C-more** touch panels can be enhanced with the accessories below:

Part Number	Description	Price
EA-AC	The AC/DC Power Adapter, EA-AC, is for C-more touch panels only, and is powered from a 100-240 VAC, 50/60 Hertz power source. The adapter provides 24 VDC @ 1.5 A. Power Fault features help protect data being logged to CompactFlash during power failures. The C-more panel must have firmware version 1.21 Build 6.18E or higher for proper operation.	<---
EA-EXP-OPT	C-more I/O Module Expansion Assembly, used to hold secondary CompactFlash Adapter (EA-CF-IF) and future option modules	<---
EA-CF-IF	CompactFlash Card Adapter Module, used when adding secondary CompactFlash option to Expansion Assembly. Compatible with EA-CF-CARD CompactFlash memory card accessory.	<---
EA-CF-CARD	512 MB CompactFlash Memory Option, industrial grade, high speed memory for non-volatile storage.	<---
EA-6-ADPTR	6-inch mounting adapter plate, REQUIRED to mount a 6 inch C-more touch panel into enclosures with legacy wide-bezel EZTouch cutouts. Converts a 8.932 inch x 6.223 inch cutout to 7.522 inch x 5.625 inch cutout.	<---
EA-ADPTR-4	D-SUB 15-pin 90 degree PLC serial communication port adapter (allows a PLC communication cable to be plugged in at a 90 degree angle to reduce panel depth requirements)	<---
EA-COMCON-3	D-SUB 15-pin to 6-terminal PLC serial communication port adapter to allow wire terminal connections for RS-422/485 PLC communication cable.	<---
EA-6-COV2	Non Glare 6 Inch Screen Cover, protective overlay used to protect the touch screen while helping to reduce the glare from external light sources. (pk of 3)	<---
EA-8-COV2	Non Glare 8 Inch Screen Cover, protective overlay used to protect the touch screen while helping to reduce the glare from external light sources. (pk of 3)	<---
EA-10-COV2	Non Glare 10-Inch Screen Cover, protective overlay used to protect the touch screen while helping to reduce the glare from external light sources. (pk of 3)	<---
EA-12-COV2	Non Glare 12-Inch Screen Cover, protective overlay used to protect the touch screen while helping to reduce the glare from external light sources. (pk of 3)	<---
EA-15-COV2	Non Glare 15-Inch Screen Cover, protective overlay used to protect the touch screen while helping to reduce the glare from external light sources. (pk of 3)	<---
SDCZ4-2048-A10	USB Pen Drive, 2GB, SanDisk Cruzer micro Pen Drive. Compatible with Windows 98SE, ME, 2000, XP and Mac OS 9.1.x+, OS X 10.1.2+, Certified Windows XP and Mac OS X. Contains Unit, sleeve and protective cap, lanyard and keychain loop. Recommended for use with the C-more Operator Touch Panels.	<---

Accessories at a glance:



Accessory Locations



C-more Accessories

AC/DC Power Adapter

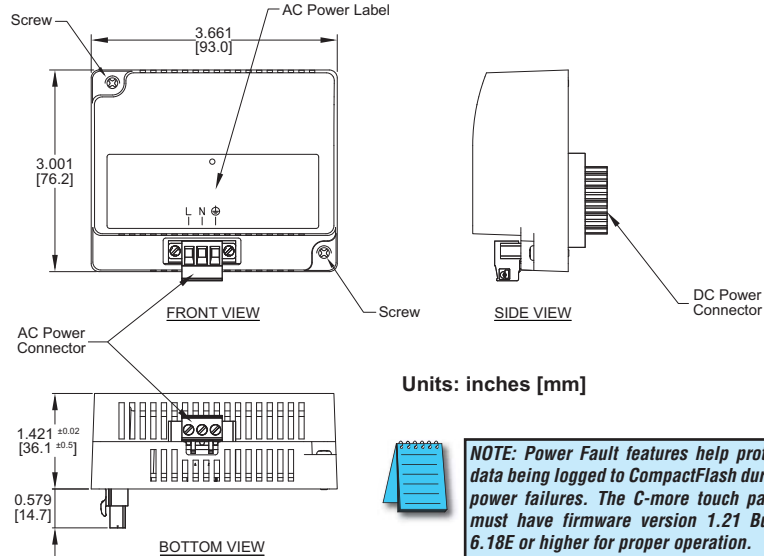
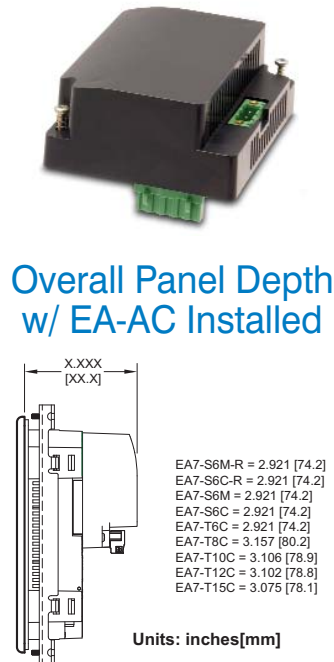
The AC/DC Power Adapter provides dedicated DC power to the panel if using 110 VAC as a power source. The AC/DC Power Adapter provides some features that a normal DC power supply cannot provide. The adapter provides a power loss signal to the touch panel that can be used to track power outages. This

signal also allows the touch panel by way of a timed sequence to stop writing data to CompactFlash memory devices providing a controlled shutdown for increased data logging reliability.

Part No. EA-AC

<---->

Dimensions



NOTE: Power Fault features help protect data being logged to CompactFlash during power failures. The C-more touch panel must have firmware version 1.21 Build 6.18E or higher for proper operation.

NOTE: The AC/DC Power Adapter is not recommended for use with the EA7-T15C touch panel when operating temperatures are expected to exceed 40 °C [104 °F].

AC/DC Power Adapter Specifications

Part Number	EA-AC	Static Electricity Discharge Resistance	Compliant with IEC61000-4-2, Contact: 4 kV, Air: 8 kV
Input Voltage & Frequency	100-240 VAC; 50/60 Hertz	Agency Approvals	UL508, cUL, CE, EMC EN61132-2
Voltage Range	85-264 VAC w/ Under Voltage and Over Voltage Shutdown	Environment	No corrosive gas or conductive dust
Permissible Momentary Power Failure	Within 40 ms	Grounding	Ground resistance: less than 100 ohm
Input Power	68 VA or less	Dimensions - inches [mm]	3.00" (H) x 3.66" (W) x 1.42" (D) [76.2 mm x 93.0 mm x 36.1 mm] (Excluding DC Power Connector.)
Operating Temperature Range	0 °C to 50 °C [32 to 122 °F] (For the EA7-T15C touch panel, maximum temperature is 40 °C [104 °F] for the power adapter.)	Weight	6.13 oz. [175 g]
Storage Temperature Range	-20 to 60 °C [-4 to 140 °F]	Cooling Method	Natural convection when installed on vertically mounted touch panel.
Operating & Storage Humidity	10-85% RH (non-condensing)	Included Parts	AC Power Connector, Data Sheet Insert
Noise Immunity	1000 VAC p-p (Pulse width 1 μs, rise time: 1 ns), with proper ground connection on AC terminal block.	Removable AC Power Connector	EA-AC-CON or DECA Switchlab MC101-508-03G Secure with (2) captive M2.5 screws, torque to 70 oz-in [0.5 Nm]
Hi-Pot	1000 VAC, 1 minute, with proper ground connection on AC terminal block.	Output Voltage and Ripple	21.6 - 26.4 VDC, Ripple < 100 mV p-p
Insulation Resistance	500 VDC, 10 M ohm or above, with proper ground connection on AC terminal block.	Output Current	Maximum 1.5 A
Vibration	Compliant with IEC61131-2	Inrush Current	For 100 VAC: 15 A, 3 ms or less For 240 VAC: 20 A, 3 ms or less
Shock	Pulse shape: Sine half wave, Peak acceleration: 147 m/s ² (15 G), X, Y, Z: 3 directions, 2 times each	Power Fail Detection Voltage	58 VAC ±5%
Thermal Protection	140 °C [284 °F], with autorecovery	Mounting to Touch Panel	Secure with (2) spring loaded captive M3-20 screws, torque to 50 oz-in [0.35 Nm]
Short Circuit Protection	85 VAC: 2.6 A, 100 VAC: 2.8 A, 264 VAC: 3.9 A		

C-more Accessories

Expansion Assembly

The **C-more** Expansion Assembly allows installation of the optional CF Card Interface Module (shown below) for CF card use and also provides a slot for future option modules. Although the full featured models have a built-in CompactFlash slot, some users may require additional CF memory for data logging.

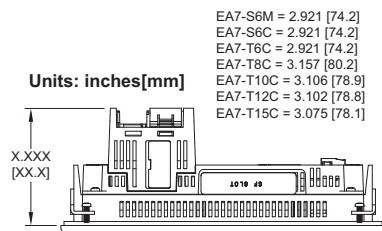
The optional Expansion Assembly can be installed on the rear of all but the 6-inch base models. This attachable assembly currently allows installation of an additional CompactFlash card with the use of the CF Card Interface Module. More options will be available in the future.

Part No. EA-EXP-OPT

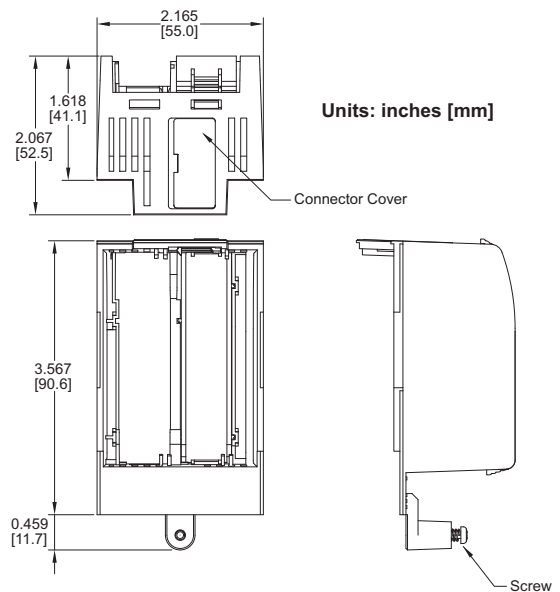


<--->

Overall Panel Depth w/ EA-EXP-OPT Installed



Dimensions



CF Card Interface Module

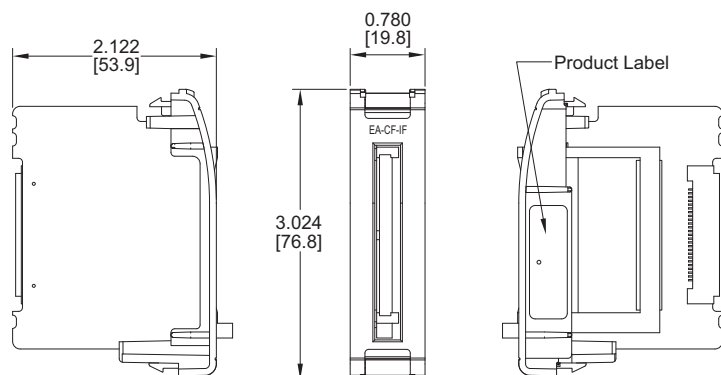
The **C-more** CF Card Interface Module is used with the Expansion Assembly to allow use of standard CompactFlash cards, such as the CompactFlash Memory (EA-CF-CARD). The CF card can be used for data logging or as project backup.

Part No. EA-CF-IF



<--->

Dimensions



Units: inches [mm]

C-more Accessories

512 MB CompactFlash Memory Card

EA-CF-CARD is a 512 MB high speed industrial grade CompactFlash memory card for non-volatile storage. Its 85 °C operating temperature makes it perfect for data logging in industrial applications (recommended for **C-more** touch panels). This is a standard "off the shelf" CompactFlash.

Part No.
EA-CF-CARD



<---->

Specifications/Features:

- CompactFlash™ Compatibility
- W/E Endurance 100,000 cycles
- Data transfer rate: 16 MB/second
- Operating Temp: -13 to 185°F (-25 to 85°C)
- Operating Humidity 85% max, non-condensing
- Storage Temp: -13 to 194 °F (-25 to 90°C)
- Storage Humidity 95% max, non-condensing

USB Pen Drive

Part No.
SDCZ4-2048-A10



<---->

The SanDisk Cruzer Micro is an extremely small 2GB USB Flash Drive (UFD) that connects to a USB port. Users can easily store their logging data, project data, key documents and images on a Cruzer Micro and transfer them to another computer with a USB port.

Includes software for data encryption (CruzerLock 2)*, and trial version for back-up (PocketCache)*, and Outlook synchronization (CruzerSync)*.

Specifications/Features:

- Dimensions: 7.9 mm x 18.95 mm x 52.2 mm (H x W x L)
- Stylish, metal casing with changeable colored skins and caps **
- Includes CruzerLock 2 for data security*, and trial versions of PocketCache (back-up)* and CruzerSync (Outlook & My Documents folder synchronization) software*
- Hi-Speed USB 2.0 certified (backwards compatible with all USB 1.1 ports)
- Compatible with Windows 98SE, ME, 2000, XP and Mac OS 9.1.x+, OS X v10.1.2+
- Certified Windows XP and Mac OS X



Cruzer Micro Package Contents:

- Cruzer Micro Skins (with clear skin and cap)
- 2 additional colored skins w/matching caps **
- Lanyard
- Quick Start Guide

* For Windows only

** Available for new version of Cruzer Micro with Skins only

C-more Accessories

6" Adapter Plate

The adapter plate simplifies the retrofit of a new **C-more 6"** touch panel into an existing cabinet cutout for an EZTouch 6" wide bezel touch panel, such as our part number EZ-S6C-K, EZ-S6C-F, EZ-S6M-R or EZ-S6M-F. A NEMA 4/4X gasket is

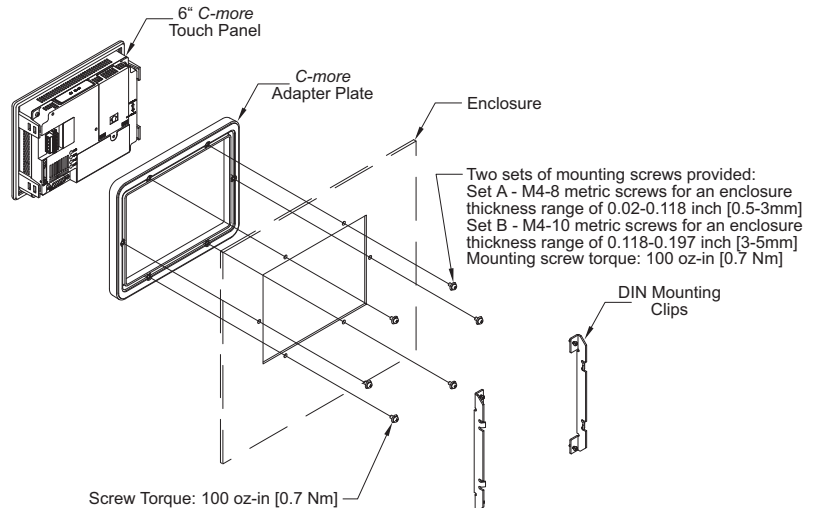
included. Please note that all sizes of the **C-more** touch panels have the same cutout as similarly sized EZTouch thin bezel (slim) touch panels, allowing quick replacement.

Part No. EA-6-ADPTR

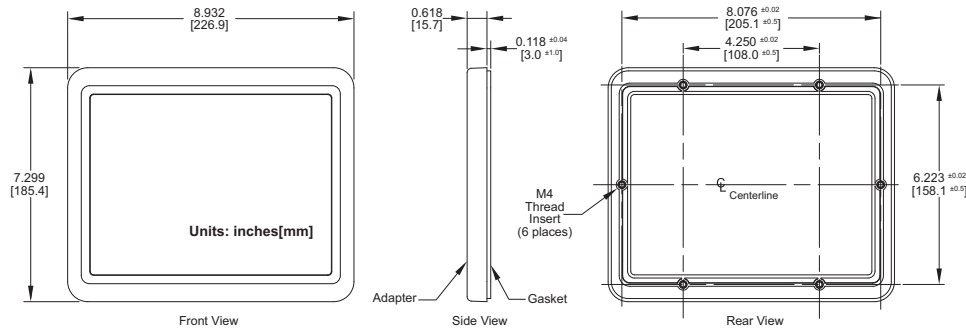


<--->

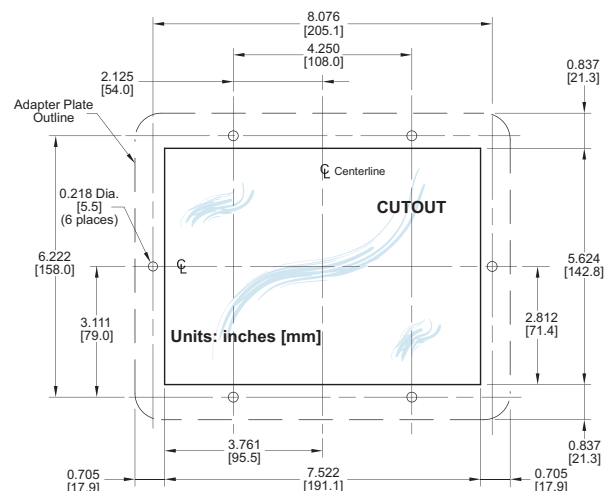
Mounting Details



Dimensions



Cutout Dimensions



C-more Accessories

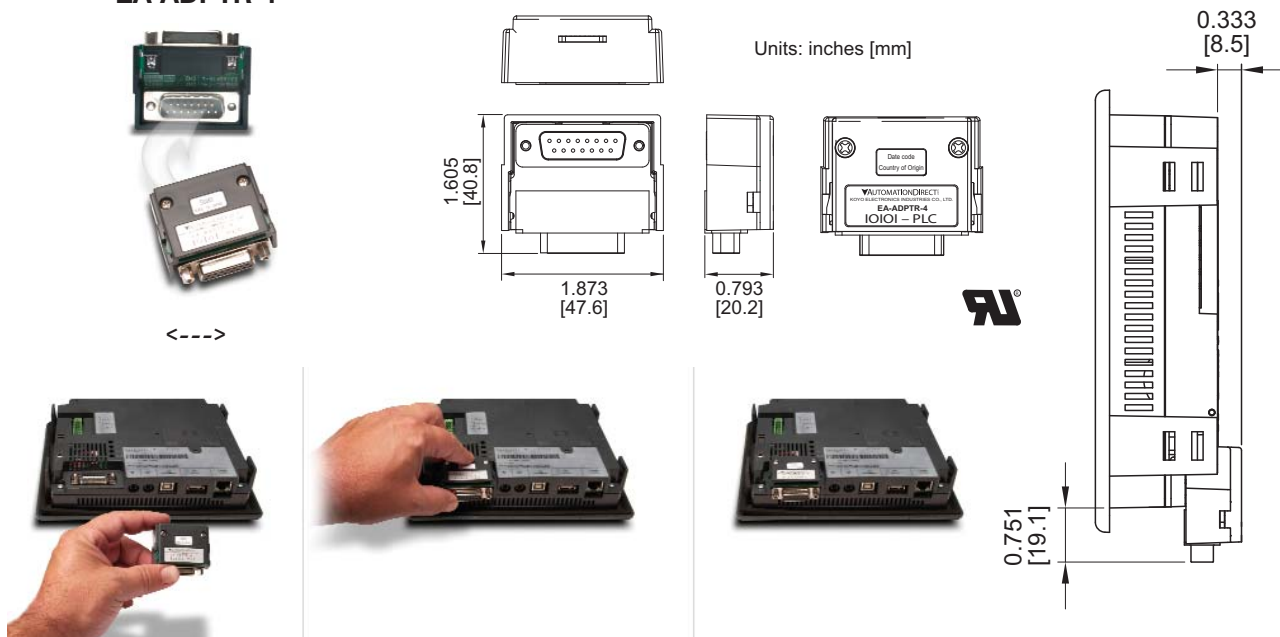
D-SUB 15-pin 90-degree Communication Port Adapter

The EA-ADPTR-4 adapter plugs into the 15-pin serial port on the rear of the panel to allow a PLC communication cable to be plugged in at a 90 degree angle to reduce panel depth requirements. 15-pin straight through pin-out. UL Recognized.

Part No.
EA-ADPTR-4

Dimensions

Units: inches [mm]



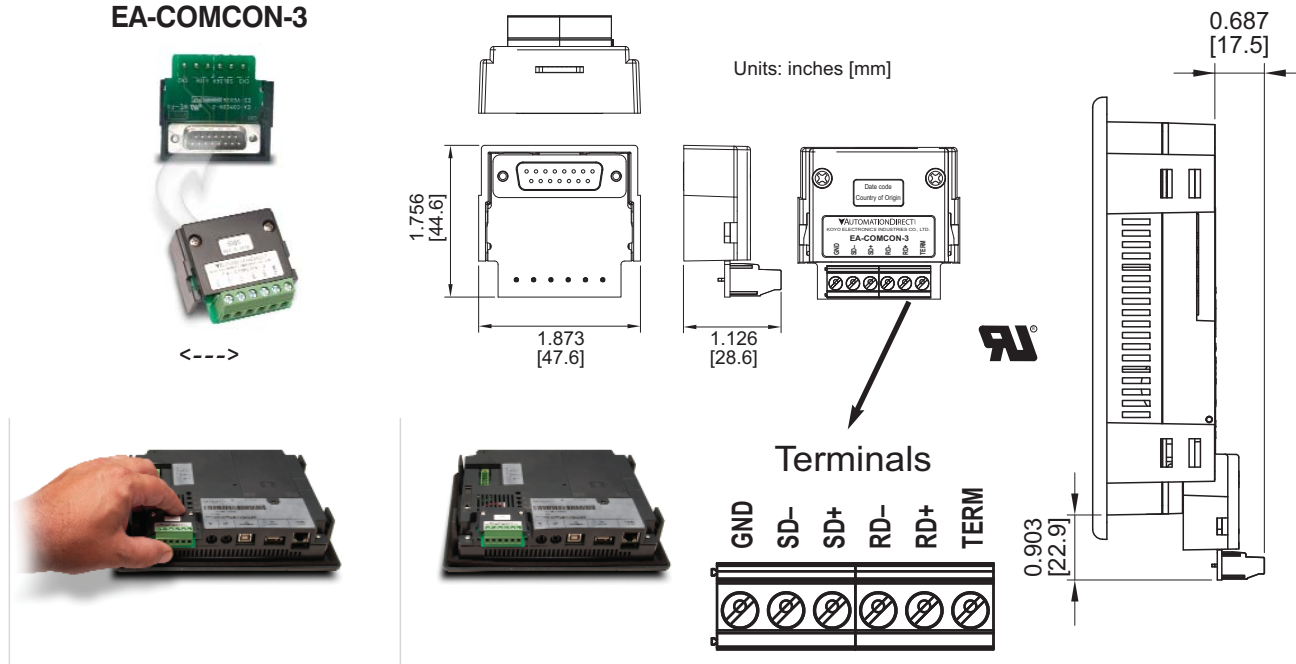
D-SUB 15-pin to Terminal Block Adapter

The EA-COMCON-3 adapter plugs into the 15-pin serial port on the rear of the panel to allow wire terminal connections for an RS-422/RS-485/DH-485 PLC communication cable. UL Recognized.

Part No.
EA-COMCON-3

Dimensions

Units: inches [mm]



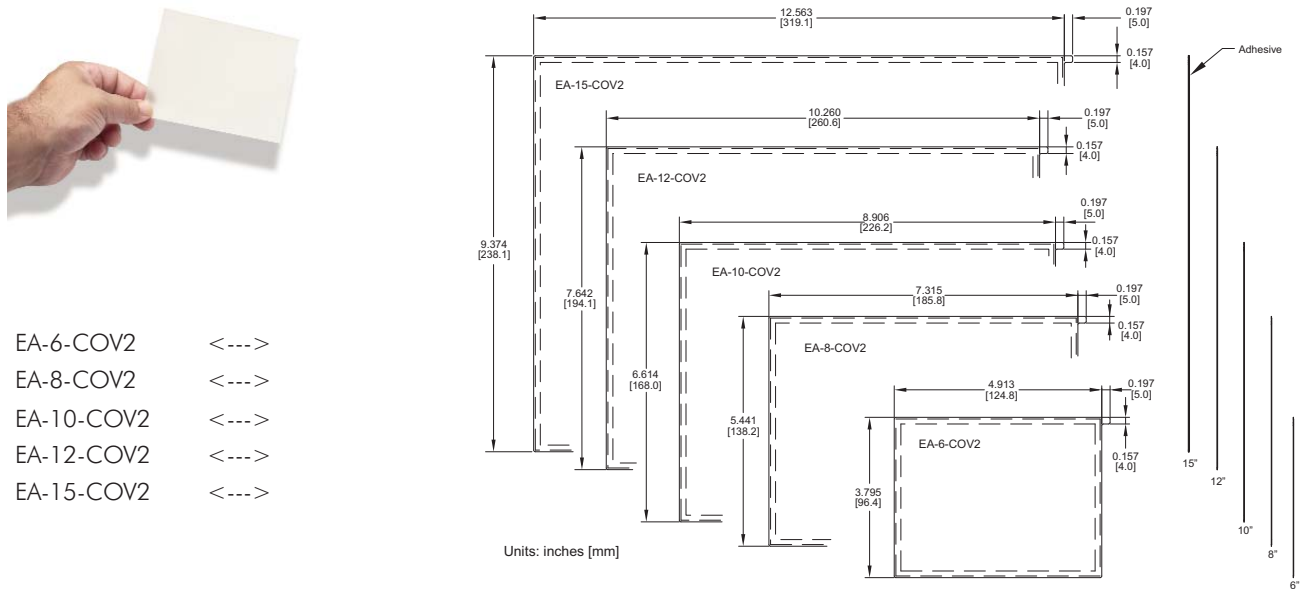
C-more Accessories

Non-glare Screen Covers (in packages of 3)

The non-glare screen covers are protective overlays used to protect the touch screen while helping to reduce the glare from external light sources.

Part Nos. EA-6-COV2, EA-8-COV2, EA-10-COV2, EA-12-COV2 and EA-15-COV2

Dimensions



Installation



NOTE: The Protective Cover ships with a thin protective sheet on the face of the cover that needs to be carefully removed. If your panel is not clear, the protective sheet may not have been removed.

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 PLCs and PC based control

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

DirectNET (DL05/06/105/205/350/405)

DirectNET (DL330/340)

Modbus (DL05/06/205/350/405)

Modbus (CLICK)

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

Entivity Modbus RTU (H2-WinPLC)

Entivity Modbus TCP/IP Ethernet (H2-WinPLC)

Modbus RTU

Modbus TCP/IP Ethernet

Allen-Bradley:

AB DF1 Full Duplex (MicroLogix)

AB DF1 Full Duplex (SLC500)

AB DF1 Full Duplex (PLC5)

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

AB DF1 Half Duplex (MicroLogix/SLC500)

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

AB DH485 (MicroLogix/SLC500/AIC)

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

90/30 SNPX (90/30, 90/70, Micro90, VersaMax Micro)

Omron:

Host Link Adapter (C200/C500)

FINS Serial (CS/CJ)

FINS Ethernet (CS/CJ)

Mitsubishi:

FX Series CPU

FX-1N(C), 2N(C), 3U(C) CPU

Q Series (Q02, Q02H, Q06H, Q12H, Q25H CPU)

Q/QnA Serial

Q/QnA Ethernet

Siemens:

S7-200(Serial: PPI)

S7-200(Ethernet: ISO over TCP/IP)

S7-300(Ethernet: ISO over TCP/IP)

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).