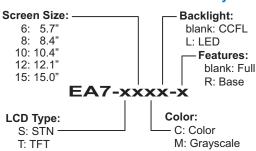
# C-more Operator Panels Overview

For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

### **Touch Panel Part Number Key:**



### 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"
- 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
- Personal Computer to run C-more programming software
- PLC communications cable (serial or Ethernet) to connect the *C-more* Touch Panel to your controller

Part Number	Description	Price
EA7-S6M-R	6-inch <i>C-more</i> 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, IPS6 (when mounted correctly; for indoor use only), non-replaceable backlight, 50,000 hour half-life. "Base Model: Built-in USB, no Ethernet or Compact Flash support.	<>
EA7-T6CL-R	6-inch <i>C-more</i> color TFT touch panel (5.7 inch viewable screen), 64K colors, 320 x 240 pixel QVGA screen resolution, 333 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP65 (when mounted correctiv; for indoor use only), non-replaceable LED backlight, 50,000 hour half-life. Built-in USB, no Ethernet or Compact Flash support.	<>
EA7-S6M	6-inch <i>C-more</i> 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, IP65 (when mounted correctly; for indoor use only), non-replaceable backlight, 50,000 hour half-life. Built-in Ethernet and USB; supports Compact Flash.	<>
EA7-T6CL	6-inch <i>C-more</i> color TFT touch panel (5.7 inch viewable screen), 64K colors, 320 x 240 pixel QVGA screen resolution, 333 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP65 (when mounted correctiv; for indoor use only), non-replaceable LED backlight, 50,000 hour half-life. Built-in Ethernet and USB; supports Compact Flash.	<>
EA7-T8C	8-inch <i>C-more</i> color TFT touch panel (8.4 inch viewable screen), 64K colors, 640 x 480 pixel VGA screen resolution, 400 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 44X, IP65 (when mounted correctly; for indoor use only), user replaceable backlight, 50,000 hour half-life. Built-in Ethernet and USB; supports Compact Flash.	<>
EA7-T10C	10-inch <i>C-more</i> color TFT touch panel (10.4 inch viewable screen), 64K colors, 640 x 480 pixel VGA screen resolution, 400 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), user replaceable backlight, 50,000 hour half-life. Built-in Ethernet and USB; supports CompactFlash.	<>
EA7-T12C	12-inch <i>C-more</i> color TFT touch panel (12.1 inch viewable screen), 64K colors, 800 x 600 pixel SVGA screen resolution, 400 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), user replaceable backlight, 50,000 hour half-life. Built-in Ethernet and USB; supports CompactFlash.	<>
EA7-T15C	15-inch <i>C-more</i> color TFT touch panel (15.0 inch viewable screen), 64K colors, 1024 x 768 XGA screen resolution, 400 MHz CPU, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP65 (when mounted correctly; for indoor use only), user replaceable backlight, 50,000 hour half-life. Built-in Ethernet and USB; supports CompactFlash.	<>
EA-PGMSW	C-more touch panel Windows-based configuration software. Requires Windows 2000 (Service Pack 4), XP Home or Professional (Service Pack 2), Vista, Windows 7 or Windows 8. 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 <i>C</i> -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 <i>C-more</i> 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 <i>C-more</i> 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 <i>C-more</i> touch panel for setup and programming. (Note: Touch panels require a 24 VDC power source for configuration and operation.)	<>



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Controllers

Field I/O Software

Drives Soft

Starters Motors & Gearbox

Steppers/ Servos

Controls

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Photo Sensors

Limit Switches

Encoders

Sensors

Pressure Sensors

Temperature Pushbuttons/ Lights

Process

Relays/ Timers

Comm. Terminal Blocks &

Wiring Power

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Product Part # Index

# C-more Selection Guide & Specifications

For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

Model		10" TFT color	12" TFT color	15" TFT color	
Specification  Part Number	w/ full features EA7-T8C	w/ full features EA7-T10C	w/ full features EA7-T12C	w/ full features EA7-T15C	
Part Number	EA7-10U	EA7-110C	EA7-112G	EA7-110C	
		Part 20 (pr 1) (			
Price	<>	<>	<>	<>	
Display Actual Size and Type	8.4" TFT color	8.4" TFT color 10.4" TFT color		15.0" TFT color	
Color Scale	65,536 colors				
Display Viewing Area	6.73" x 5.05" 8.31" x 6.24" [170.9 mm x 128.2 mm] [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 4	180 (VGA)	800 x 600 (SVGA)	1024 x 768 (XGA)	
Display Brightness	300 cd/m² (NITS)	270 cd/m² (NITS)	260 cd/m² (NITS)	220 cd/m² (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	y 50,000 hours		
Backlight User Replaceable	Yes – Correct replaceme	ent bulb is dependent on the panel seria	· · · · · · · · · · · · · · · · · · ·	·	
Touch Panel Type	Analog Resistive (10-bit reso	lution, 1024 x 1024 touch area)	Analog Resistive (12-bit reso	lution, 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-CF-CARD, industrial grade, high speed (Optional) or USB Pen Drive p/n SDCZ4-2048-A10 (Optional)			otional)	
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	Ye	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			/100 Base-T		
Audio Line Out			- requires amplifier and speaker(s)		
CF Card – Slot #1	· · · · · · · · · · · · · · · · · · ·	emory Card p/n EA-CF-CARD, industria			
Expansion Assembly (p/n EA-EXP-OPT)		Interface Module p/n EA-CF-IF in the ri The left slot of the Expansion			
Supply Power	(Use an AC Powe	24 VDC, -15%, +20% (20.4 er Adapter, p/n EA-AC, to power the tou	1–28.8 VDC operating range) ich 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			slow blow		
Operating Temperature			ounding air temperature rating: 50°C		
Storage Temperature			(-4 to +140°F)		
Humidity			non-condensing		
Noise Immunity		• • • • • • • • • • • • • • • • • • • •	lse width: 1 μs, Rise time: 1 ns		
Withstand Voltage	10	00 VDC for 1 minute, between DC pow	, .		
Insulation Resistance	15004461.2		oply input terminal and safety ground		
Vibration		Hz: 0.075 mm amplitude, 57–150 Hz 1.		*	
Shock	1	15 G peak, 11 ms duration, 2 shocks pe		xes	
Enclosure			unted correctly. For indoor use only.		
Environment			Degree 2 Environment		
Agency Approvals	0.740" v.10.004" v.0.050"		e 157382, CSA file 234884	12 000" v 16 740" v 2 040"	
Dimensions		10.669" x 13.661" x 2.079" [271.0 mm x 347.0 mm x 52.8 mm]		13.000" x 16.748" x 2.048" [330.2 mm x 425.4 mm x 52.0 mm]	
Weight  * NOTE: The backlight average lifeting	2.60 lb. [1,180g]	3.55 lb. [1,610g]	4.59 lb. [2,080g]	7.01 lb. [3,180g]	
* NILLE: The heallight average lifetiv	ma ia dafinad aa tha ayaraga iiaa	as time it takes before the brights	and becomes ERO/ of the initial b		

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

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Terminal Blocks &

Power Circuit Protection Enclosures Tools Pneumatics Safety Appendix Product

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backlight depends on the ambient temperature. The lifetime will decrease under low or high temperature usage.

# C-more 8" TFT Color Touch Panel - Full Model

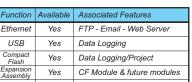
For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

8-inch C-more color TFT touch panel (8.4 inch viewable screen), 64K 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 backlight, 50,000 hour half-life. Built-in Ethernet and USB; supports Compact Flash.

#### **Features**

- 8.4" diagonal color TFT (Thin Film Transfer) LCD display with 64K colors
- 640 x 480 pixel resolution
- 300 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)
- 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, IP65 compliant when mounted correctly, indoor use only
- · Slim design saves panel space
- UL, cUL, CSA & CE agency approvals
- · 2-year warranty from date of purchase

#### Ethernet FTP - Email - Web Server USB Yes Data Logging Compac Yes Data Logging/Project Expansion Assembly CF Module & future modules Yes Audio Out Yes Speaker/Amplifier Connection Ethernet Yes Remote access over Internet



# <--->

Part No. EA7-T8C

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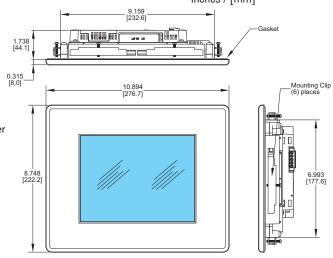
PLC Drivers	PLC Drivers				
Serial	Avail.				
Productivity3000	Yes				
AutomationDirect CLICK	Yes				
Do-more Serial	Yes				
Direct LOGIC K-sequence	Yes				
Direct NET	Yes				
Modbus (Koyo Addressing)	Yes				
Allen-Bradley DF1 Full & Half Duplex	Yes				
Allen-Bradley PLC5 DF1	Yes				
Allen-Bradley DH-485	Yes				
Allen-Bradley DF1 Full & Half Duplex - Tag Based (ControlLogix™ and CompactLogix™)	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					
Productivity3000	Yes				
Do-more Ethernet	Yes				
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 (ControlLogix™ and CompactLogix™)	Yes				
Allen-Bradley EtherNet/IP Client - MicroLogix 1100 & SLC 5/05 via native Ethernet port; MicroLogix 1000, 1100, 1200, 1400, 1500 & SLC	Yes				

5-03, 04, 05 via AB ENI Adapter

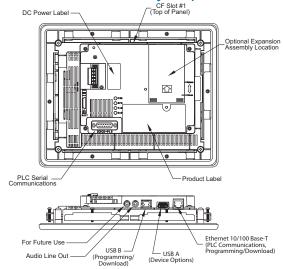
Omron FINS Mitsubishi Q, QnA Etherne

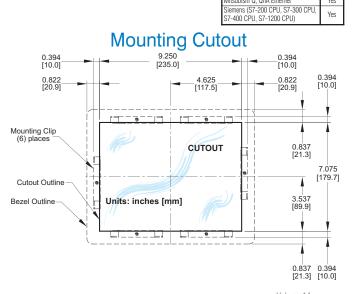
### **Dimensions**

inches / [mm]



Ports & Memory Expansion





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Systems Overview

Programmable Controllers

Field I/O

Software

Drives

Soft Starters

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Steppers/ Servos

Motor Controls

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Encoders

Sensors

Pressure Sensors

Temperature

Pushbuttons/ Lights

Process

Relays Timers

Comm.

Yes

Terminal Blocks & Wiring

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

For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

10-inch **C-more** color TFT touch panel (10.4 inch viewable screen), 64K 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 backlight, 50,000 hour half-life. Built-in Ethernet and USB; supports Compact Flash.

#### **Features**

- 10.4" diagonal color TFT (Thin Film Transfer) LCD display with 64K 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)
- 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, IP65 compliant when mounted correctly, indoor use only
- · Slim design save panel space
- UL, cUL, CSA & CE agency approvals
- 2-year warranty from date of purchase

#### Function | Available Associated Features Ethernet FTP - Email - Web Server Yes USB Yes Data Logging Compact Flash Yes Data Logging/Project Expansion Assembly CF Module & future modules Yes Audio Ou Yes Speaker/Amplifier Connection Ethernet Yes Remote access over Internet

### Part No. EA7-T10C



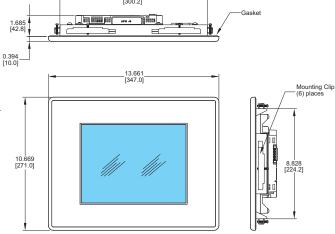
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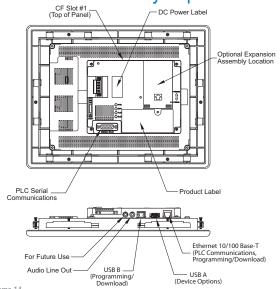
### **Dimensions**

inches / [mm]

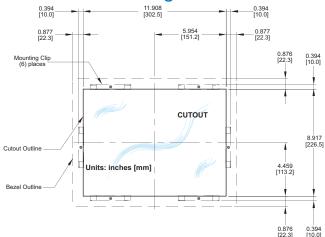


PLC Drivers	
Serial	Avail.
Productivity3000	Yes
AutomationDirect CLICK	Yes
Do-more Serial	Yes
Direct LOGIC K-sequence	Yes
Direct NET	Yes
Modbus (Koyo Addressing)	Yes
Allen-Bradley DF1 Full & Half Duplex	Yes
Allen-Bradley PLC5 DF1	Yes
Allen-Bradley DH-485	Yes
Allen-Bradley DF1 Full & Half Duplex - Tag Based (ControlLogix™ and CompactLogix™)	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	
Productivity3000	Yes
Do-more Ethernet	Yes
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 (ControlLogix™ and CompactLogix™)	Yes
Allen-Bradley EtherNet/IP Client - MicroLogix 1100 & SLC 5/05 via native Ethernet port; MicroLogix 1000, 1100, 1200, 1400, 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, S7-400 CPU, S7-1200 CPU)	Yes

# Ports & Memory Expansion



# **Mounting Cutout**



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# C-more 12" TFT Color Touch Panel - Full Model

For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

12-inch **C-more** color TFT touch panel (12.1 inch viewable screen), 64K colors, 800 x 600 pixel SVGA screen resolution, 400 MHz CPU plus Graphic Accelerator chip, 24 VDC (20.4-28.8 VDC operating range), NEMA 4/4X, IP-65 (when mounted correctly; for indoor use only), user replaceable backlight, 50,000 hour half-life. Built-in Ethernet and USB; supports Compact Flash.

#### **Features**

- 12.1" diagonal color TFT (Thin Film Transfer) LCD display with 64K colors
- 800 x 600 pixel resolution
- 260 NITS display brightness
- 50,000 hour average backlight lifetime, user replaceable
- · Analog resistive (4096 X 4096) 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)
- 40 MByte project memory
- · Data logging
- 0 to 50°C (32 to 122°F) operating temperature range
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- Slim design saves panel space
- UL, cUL, CSA & CE agency approvals
- · 2-year warranty from date of purchase

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





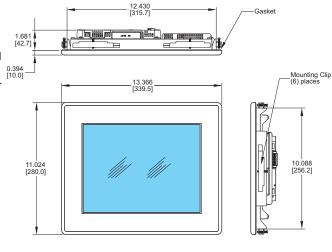
Part No. EA7-T12C

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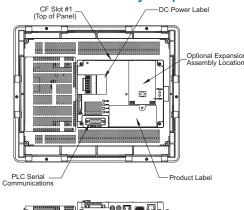
# **Dimensions**

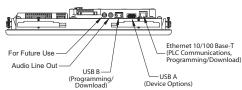
inches / [mm]



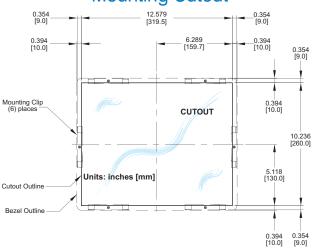
PLC Drivers	
Serial	Avail
Productivity3000	Yes
AutomationDirect CLICK	Yes
Do-more Serial	Yes
Direct LOGIC K-sequence	Yes
Direct NET	Yes
Modbus (Koyo Addressing)	Yes
Allen-Bradley DF1 Full & Half Duplex	Yes
Allen-Bradley PLC5 DF1	Yes
Allen-Bradley DH-485	Yes
Allen-Bradley DF1 Full & Half Duplex - Tag Based (ControlLogix™ and CompactLogix™)	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	
Productivity3000	Yes
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 (ControlLogix™ and CompactLogix™)	Yes
Allen-Bradley EtherNet/IP Client - MicroLogix 1100 & SLC 5/05 via native Ethernet port; MicroLogix 1000, 1100, 1200, 1400, 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, S7-400 CPU, S7-1200 CPU)	Yes

# Ports & Memory Expansion





# **Mounting Cutout** 0.354



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**C-more** Operator Touch Panels

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# **C-more** 15" **TFT Color Touch Panel - Full Model** For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

15-inch **C-more** color TFT touch panel (15.0 inch viewable screen), 64K colors, 1024 x 768 XGA screen resolution, 400 MHz CPU plus Graphic Accelerator chip, 24V DC (20.4-28.8 VDC operating range), NEMA 4/4X, IP-65 (when mounted correctly; for indoor use only), user replaceable backlight, 50,000 hour half- life. Built-in Ethernet and USB; supports Compact Flash.

#### **Features**

- 15.0" diagonal color TFT (Thin Film Transfer) LCD display with 64K colors
- 1024x 768 pixel resolution
- 220 NITS display brightness
- 50,000 hour average backlight lifetime, user replaceable
- · Analog resistive (4096 X 4096) 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)
- 40 MByte project memory
- · Data logging
- 0 to 50°C (32 to 122°F) operating temperature range
- NEMA 4/4X, IP65 compliant when mounted correctly, indoor use only
- Slim design saves panel space
- UL, cUL, CSA & CE agency approvals
- 2-year warranty from date of purchase

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







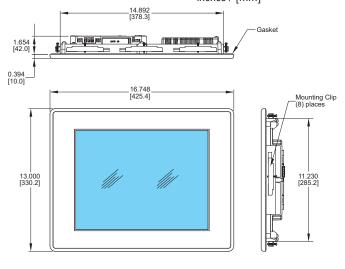




NOTE: The AC/DC Power Adapter is not recommended for use with the EA7-T15C touch panel when operating temperatures are expected to exceed 40 °C [104 °F].

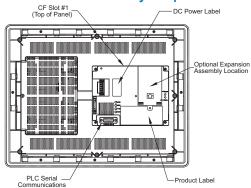
#### **Dimensions**

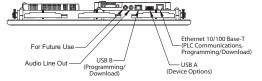
inches / [mm]



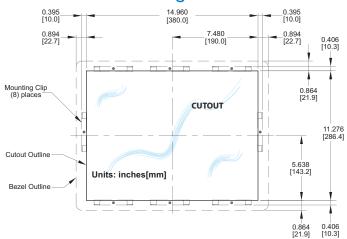
PLC Drivers	
Serial	Avail.
Productivity3000	Yes
AutomationDirect CLICK	Yes
Do-more Serial	Yes
Direct LOGIC K-sequence	Yes
Direct NET	Yes
Modbus (Koyo Addressing)	Yes
Allen-Bradley DF1 Full & Half Duplex	Yes
Allen-Bradley PLC5 DF1	Yes
Allen-Bradley DH-485	Yes
Allen-Bradley DF1 Full & Half Duplex - Tag Based (ControlLogix™ and CompactLogix™)	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	
Productivity3000	Yes
Do-more Ethernet	Yes
Direct LOGIC Ethernet	Yes
Modbus TCP/IP	Yes
Entivity Modbus TCP/IP	Yes
Allen-Bradley EtherNet/IP <sup>TM</sup> Server - Generic I/O Messaging*	Yes
Allen-Bradley EtherNet/IP Client - Tag Based (ControlLogix™ and CompactLogix™)	Yes
Allen-Bradley EtherNet/IP Client - MicroLogix 1100 & SLC 5/05 via native Ethernet port; MicroLogix 1000, 1100, 1200, 1400, 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, S7-400 CPU, S7-1200 CPU)	Yes

# Ports & Memory Expansion





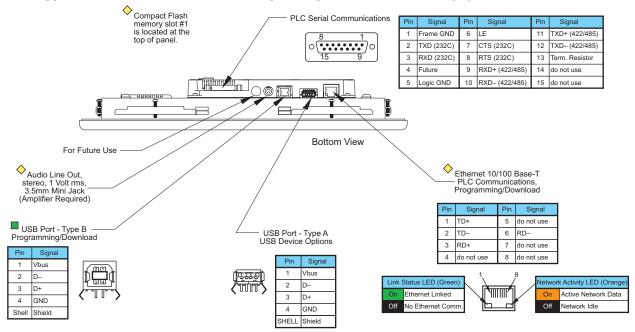
### **Mounting Cutout**



eCR-40

# **C-more Communication Ports**

For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).



### **Ethernet Port**

The Ethernet port has several uses:

- Download program to panel
- Communicate to PLCs/PCs
- · Send e-mail
- Access FTP server
- Act as a 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:

- · Productivity3000
- · Direct LOGIC Ethernet
- · Modbus TCP/IP
- Allen-Bradley EtherNet/IP<sup>™</sup> Server -Generic I/O Messaging (ControlLogix\*, CompactLogix\*, and FlexLogix\*)
- Allen-Bradley EhterNet/IP Client -Tag Based (ControlLogix, CompactLogix, and FlexLogix<sup>™</sup>)
- · 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**

Note: Use USB Programming Cable, such as p/n USB-CBL-AB15.

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.

Note: Device is not available on Base Feature touch panels, part numbers EA7-S6M-R and EA7-T6CL-R.

#### **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.

### **Serial Port**

The serial 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 Automation Direct.com PLCs: Productivity3000 **Direct**LOGIC K-sequence **Direct**NET 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)

Motors & Gearbox

Steppers/ Servos

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Pushbuttons/ Lights

Process Relays/ Timers

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# C-more Communication Protocols & Cables

For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

Compatibility Table					
PLC Family	Model		Protocols		
	MicroLogix 1000/110 SLC 5-/01/02/03	00/1200/1400/1500,	DH485/AIC/AIC+		
	MicroLogix 1000, 11				
	SLC 5-/03/04/05	00, 1200 and 1000	DF1 Half Duplex; DF1 Full Duplex		
		pactLogix™, FlexLogix™			
	PLC-5		DF1 Full Duplex		
Allen-Bradley	ControlLogix, Compa	actLogix, FlexLogix - Tag Based	DF1 Half Duplex; DF1 Full Duplex		
	ControlLogix, Compa Generic I/O Messagir		EtherNet/IP Server		
		actLogix, FlexLogix - Tag Based			
	MicroLogix 1100 & S both via native Ethern		EtherNet/IP Client		
	MicroLogix 1000, 11	00, 1200, 1400,1500 & via ENI Adapter			
Modbus TCP/IP	Modbus TCP/IP devi		Modbus TCP/IP		
GE	90/30, 90/70, Micro		SNPX		
	FX Series	,	FX Direct		
Mitsubishi	Q02, Q02H, Q06H, C	)12H, Q25H	Q CPU		
micubiom	Q, QnA Serial		QnA Serial		
_	Q, Qna Ethernet C200 Adapter, C500		QnA Ethernet Host Link		
Omron	CJ1/CS1 Serial, CJ1	/CS1 Ethernet	FINS		
Modicon		113 CPU, AEG Modicon Micro I-xx, 411-xx, 512-xx, 612-xx	Modbus RTU		
	Series 110 CPU: 311 S7-200 CPU. RS-48	1-xx, 411-xx, 512-xx, 612-xx 5 Serial	PPI		
Siemens		O CPU, S7-400, S7-1200 CPU;	Ethernet ISO over TCP		
Productivity3000	Productivity3000 Serial (P3-550)		AutomationDirect P3000 Serial		
CLICK	Productivity3000 Ethernet (P3-550)		AutomationDirect P3000 Ethernet AutomationDirect Modbus (CLICK)		
ULIUN	all		K-Sequence		
	DL05/DL06	all	<b>Direct</b> NET		
			Modbus (Koyo addressing)		
	DI 105	H0-ECOM/H0-ECOM100	Direct LOGIC Ethernet		
	DL105	all D2-230	K-Sequence K-Sequence		
			K-Sequence		
		D2-240	<b>Direct</b> NET		
	DI 005	D0 050/D0 050 4/D0 000	K-Sequence		
	DL205	D2-250/D2-250-1/D2-260	DirectNET  Modbus (Koyo addressing)		
		D2-240/D2-250-1/D2-260	<b>Direct</b> NET		
		Using DCM	Modbus (Koyo addressing)		
		H2-ECOM/H2-ECOM100	Direct LOGIC Ethernet		
		D3-330/330P (Requires the use of a Data Communications Unit)	<b>Direct</b> NET		
		D3-340	<b>Direct</b> NET		
Direct LOGIC	DL305	D3-350	K-Sequence  DirectNET		
		D3-330	Modbus (Koyo addressing)		
		D3-350 DCM	<b>Direct</b> NET		
		D9-900 DCINI	Modbus (Koyo addressing)		
		D4-430	K-Sequence <b>Direct</b> NET		
			K-Sequence		
		D4-440	<b>Direct</b> NET		
	DL405		K-Sequence		
	DE 100	D4-450	<b>Direct</b> NET		
			Modbus (Koyo addressing)  Direct NET		
		All with DCM	Modbus (Koyo addressing)		
		H4-ECOM/H4-ECOM100	Direct LOGIC Ethernet		
		& Do) Live V5.2 or later and	Think & Do Modbus RTU		
	Studio any version H2-WinPLC (Think 8	Do) Live V5.5.1 or later and	(serial port) Think & Do Modbus TCP/IP		
	Studio V7.2.1 or late	& Do) Live V5.5.1 or later and r	(Ethernet port)		

Cable Description	Cable Part Number	Price
Productivity3000 Automation Direct CLICK, DirectLOGIC PLC RJ-12 port, DL05, DL06, DL105, DL205, D3-350, D4-450 & H2-WinPLC (RS-232C)	EA-2CBL	<>
<b>Direct</b> 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 DCM's (RS-232C)	EA-4CBL-2	<>
Allen-Bradley MicroLogix 1000, 1100, 1200, 1400 & 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



# **C-more Computer Programming Connections**

For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

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 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 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; 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\* XP Home / Professional Edition with Service Pack 2, Windows\* 2000 with Service Pack 4, Windows Vista, Windows 7 or Windows 8.

# **USB Programming Cable**

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Sensors



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**



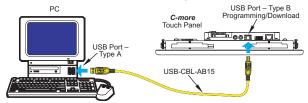
Part No. RT-CNFGKIT

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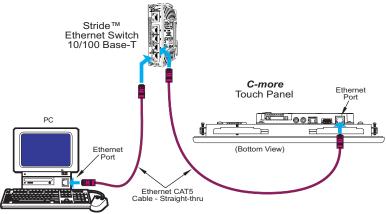
The Ethernet Configuration Kit includes a five-port 10/100 Base-T Ethernet switch, four straight-through cables, and one crossover cable. (The cables are at least five feet in length.) The kit provides a great convenience for configuring systems, demonstration systems or basic control projects using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

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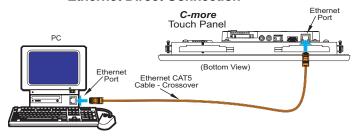




### **Ethernet Connectivity via a Hub or Switch**



#### **Ethernet Direct Connection**

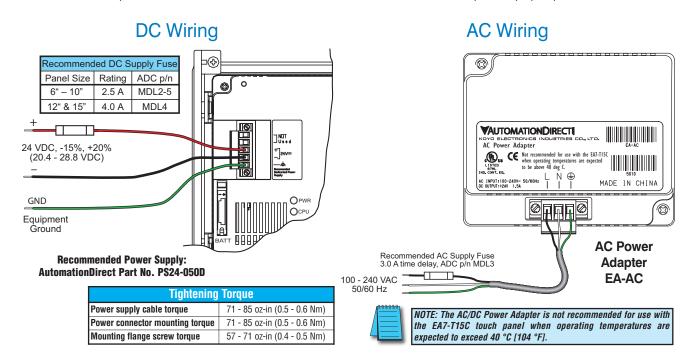


# C-more Power Connection Wiring

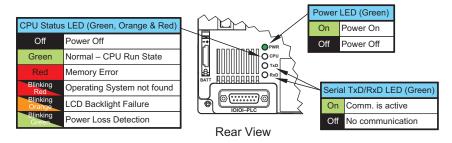
For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

# 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.



#### 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.

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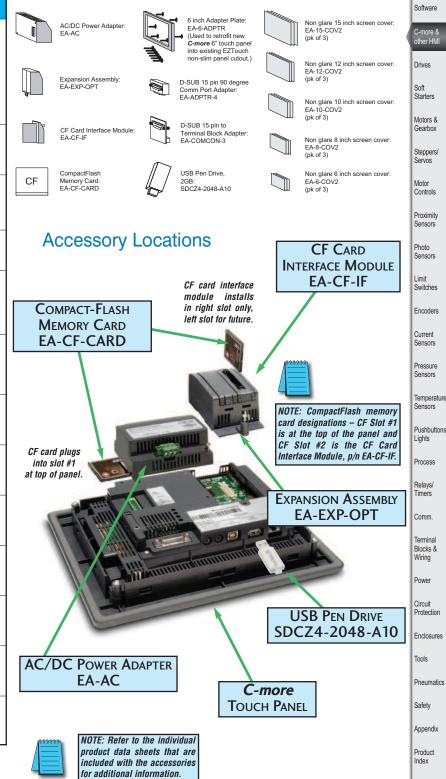
For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

### 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 <i>C-more</i> 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 <i>C-more</i> panel must have firmware version 1.21 Build 6.18E or higher for proper operation.	<b>⟨&gt;</b>
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 Compact-Flash 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 <i>C-more</i> 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 Edge Pen Drive. Recommended for use with the <i>C-more</i> Operator Touch Panels.	<>

# Accessories at a glance:



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Pushbuttons/ Liahts

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Relays/ Timers

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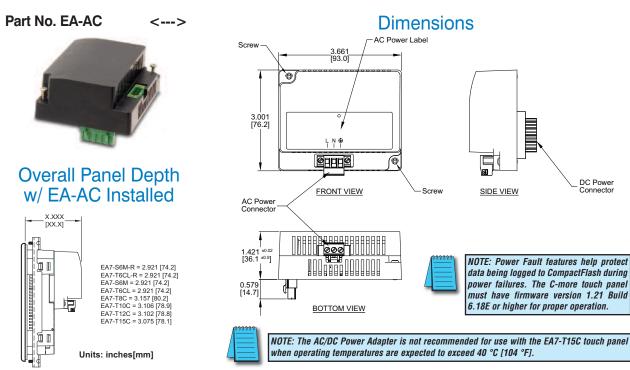
Part # Index

### For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

### 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.



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	For use in pollution degree 2 environment	
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] Maximum surrounding temperature rating, 50 °C (For the EA7-115C touch panel, maximum temperature is 40° C, [104 °F] when using the AC/DC 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/s² (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			

For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

# **Expansion Assembly**

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

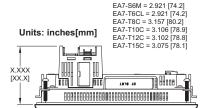
The optional Expansion Assembly can be installed on the rear of all but the 6-inch base models. This attachable assembly currently allows installation of an additional CompactFlash card with the use of the CF Card Interface Module.

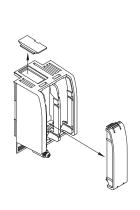
**Dimensions** 

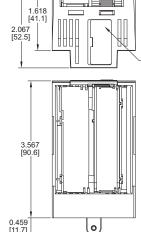
#### Part No. EA-EXP-OPT

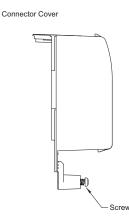


# **Overall Panel Depth** w/ EA-EXP-OPT Installed









Units: inches [mm]

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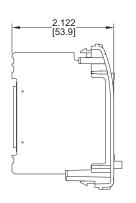
Programmable

# **CF Card Interface Module**

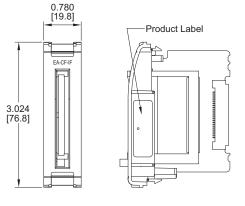
The **C-more** CF Card Interface Module is used with the Expansion Assembly to allow use of standard CompactFlash cards, such as the CompactFlash Memory (EA-CF-CARD). The CF card can be used for data logging or as project backup.

#### Part No. EA-CF-IF





# **Dimensions**



Units: inches [mm]

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For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

# 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<sup>™</sup> Compatibility
- W/E Endurance 100,000 cycles
- Data transfer rate: 16 MB/second
- $\bullet$  Operating Temp: -13 to 185°F ( -25 to 85°C )
- Operating Humidity 85% max, non-condensing
- $\bullet$  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 Edge is a 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 Edge and transfer them to another computer with a USB port.

• Dimensions: (W x L x D) 0.80" x 2.30" x 0.40 "

For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

# 6" Adapter Plate

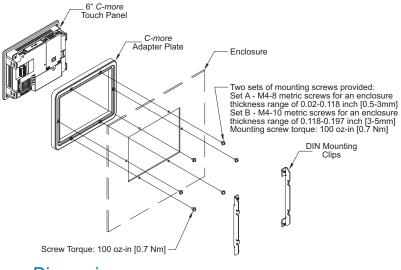
The adapter plate simplifies the retrofit of a new C-more 6" touch panel into an existing cabinet cutout for an EZTouch (units sold by AutomationDirect) 6" wide bezel touch panel, such as our part number EZ-S6C-K, EZ-S6C-F, EZ-S6M-R or EZ-S6M-F.

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.

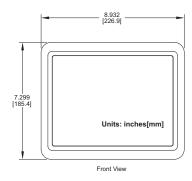
#### Part No. EA-6-ADPTR

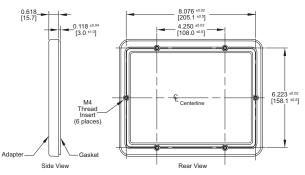


**Mounting Details** 



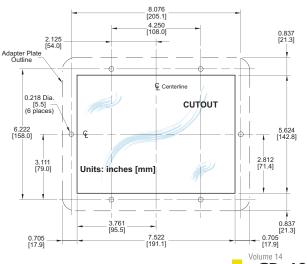
# **Dimensions**





# **Cutout Dimensions**





Part #

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Programmable

Field I/O

Software

Drives

Soft Starters

Motors & Gearbox

Steppers/ Servos

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Proximity

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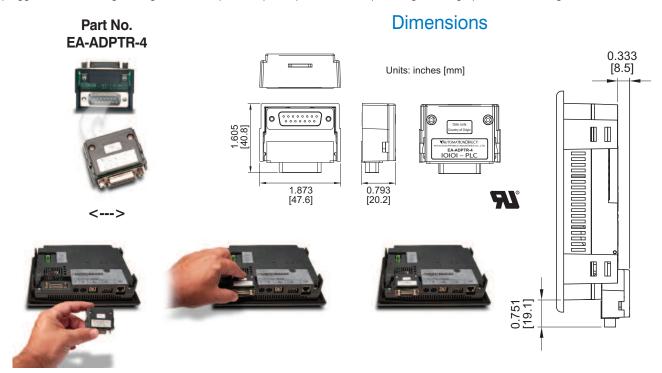
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For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

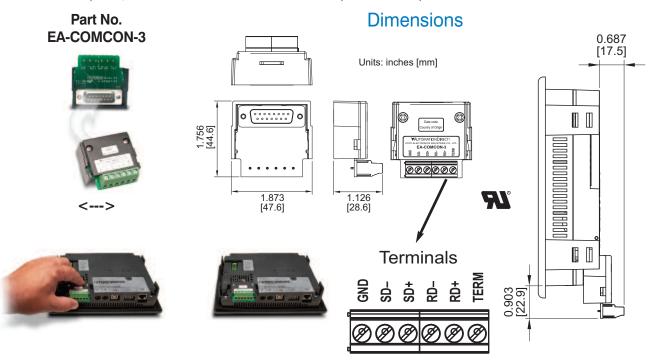
### D-SUB 15-pin 90-degree Communication Port Adapter

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.



# 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. For use with all **C-more** EA7 series panels, **C-more** EA9-T6CL and **C-more** Micro-Graphic 4" and 6" panels.



For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

# Non-glare Screen Covers (in packages of 3)

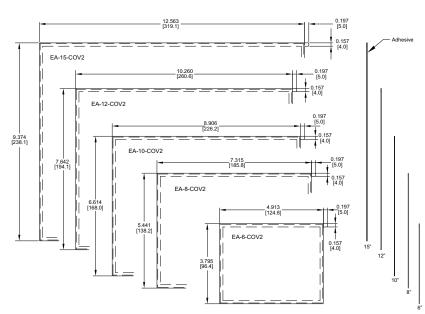
The non-glare screen covers are protective overlays used to protect the touch screen while helping to reduce the glare from external light sources.

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

### **Dimensions**



EA-6-COV2 <--->
EA-8-COV2 <--->
EA-10-COV2 <--->
EA-12-COV2 <--->
EA-15-COV2 <--->



### 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.

tomation Direct

Company Information

Systems Overview

Programmable Controllers

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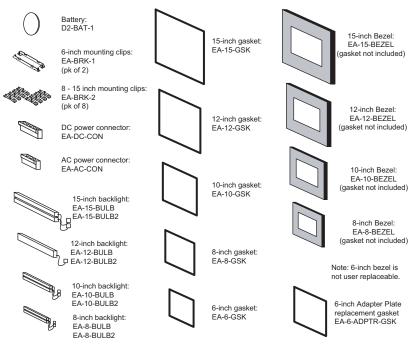
# **C-more Replacement Parts**

For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).

The optional replacement parts can be used to replace damaged, worn or lost *C-more* components.

Part Number	Description	Price
EA-15-BULB* EA-15-BULB2*	15" Panel Backlight Bulb Replacement	<>
EA-12-BULB* EA-12-BULB2*	12" Panel Backlight Bulb Replacement	<>
EA-10-BULB* EA-10-BULB2*	10" Panel Backlight Bulb Replacement	<>
EA-8-BULB* EA-8-BULB2*	8" Panel Backlight Bulb Replacement	<>
EA-DC-CON	DC Panel Power Connector Replacement	<>
EA-AC-CON	AC Power Adapter Connector Replacement	<>
D2-BAT-1	Replacement Battery	<>
EA-BRK-1	6" Panel Mounting Clip Replacements (2 per pk.)	<>
EA-BRK-2	8"-15" Panel Mounting Clip Replacements (8 per pk.)	<>
EA-15-BEZEL	15" Panel Bezel Replacement	<>
EA-12-BEZEL	12" Panel Bezel Replacement	<>
EA-10-BEZEL	10" Panel Bezel Replacement	<>
EA-8-BEZEL	8" Panel Bezel Replacement	<>
EA-15-GSK	15" Panel Gasket Replacement	<>
EA-12-GSK	12" Panel Gasket Replacement	<>
EA-10-GSK	10" Panel Gasket Replacement	<>
EA-8-GSK	8" Panel Gasket Replacement	<>
EA-6-GSK	6" Panel Gasket Replacement	<>
EA-6-ADPTR-GSK	6" Adapter Plate Gasket Replacement	<>

# Replacement parts at a glance:



Please refer to the individual data sheet inserts that are included

WITH EACH REPLACEMENT PART FOR ADDITIONAL DETAILS.

*C-more Replacement Bulbs				
<i>C-more</i> Model	Bulb Model	<i>C-more</i> Serial Number		
EA7-T8C	EA-8-BULB	EA7-T8C+10Z15B020 and older		
	EA-8-BULB2	EA7-T8C+10Z15B021 thru EA7-T8C+12Y25B070		
	Non-Replaceable LED	EA7-T8C+12Y25B071 and newer		
EA7-T10C	EA-10-BULB	EA7-T10C+10Z11B080 and older		
	EA-10-BULB2	EA7-T10C+10Z11B081 thru EA7-T10C+12Y29B120		
	Non-Replaceable LED	EA7-T10C+12Y29B121 and newer		
EA7-T12C	EA-12-BULB	EA7-T12C+10Z29B019 and older		
	EA-12-BULB2	EA7-T12C+10Z29B020 thru EA7-T12C+14102B060		
	Non-Replaceable LED	EA7-T12C+14102B061 and newer		
EA7-T15C	EA-15-BULB	EA7-T15C+10Z22B120 and older		
	EA-15-BULB2	EA7-T15C+10Z22B121 thru EA7-T15C+14110B999		
	Non-Replaceable LED	EA7-T15C+14111B001 and newer		

#### Serial Number = [Part Number]+[YYMDDFNNN]

YY: Year (05–99 --- e.g. 05 = 2005) M: Month (1–9, X, Y, Z --- e.g. X = Oct.) DD: Day (1–31)

F: Manufacturing Site (0–9, A–Z)
NNN: Sequence number for the date listed (000–999)

Part No.
EA-8-BULB, EA-8-BULB2,
EA-10-BULB, EA-10-BULB2,
EA-12-BULB, EA-12-BULB2,
EA-15-BULB, & EA-15-BULB2
see table



Panels with serial numbers newer than November 2013 do not have user replaceable backlights. For earlier panels, the correct replacement bulb part number is provided in the adjacent table. No 6" panels have user replaceable backlights. Older 8", 10" and 15" touch panels use two bulbs per panel and the 12" touch panels use one bulb per panel. The bulbs are packaged two per box for the 8", 10" and 15" touch panels and one per box for the 12" touch panels.

# **C-more Replacement Parts**

For new applications choose EA9 series C-more panels, part numbers EA9-TxCL(-R).



MAINTENANCE AND ACCESSORY INSTRUCTION SHEETS CAN BE VIEWED AND DOWNLOADED ONLINE AT: HTTP://WWW.AUTOMATIONDIRECT.COM/STATIC/MANUALS/EAUSERM/EAUSERM.HTML

#### DC Power Connector Part No. EA-DC-CON



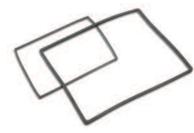
Replacement 5-terminal DC power connector for **C-more** touch panels.

### 6" Panel Mounting Clips Part No. EA-BRK-1



Spare panel mounting clips for 6-inch C-more touch panels. Package of 2 clips with 4 screws.

### Part No. EA-6-GSK. EA-8-GSK, EA-10-GSK, EA-12-GSK and EA-15-GSK



Replacement NEMA 4/4X touch panel gaskets for C-more 6", 8", 10", 12" and 15" touch panels.

### **AC Power Connector** Part No. EA-AC-CON



Replacement 3-terminal AC power connector for C-more touch panel AC Power Adapters.

### 8"-15" Panel Mounting Clips Part No. EA-BRK-2



Spare panel mounting clips for the 8-inch through 15-inch C-more touch panels. Package of 8 clips with 8 screws.

#### Part No. EA-6-ADPTR-GSK



6-inch replacement NEMA 4/4X gasket for the **C-more** touch panel adapter plate.

#### Replacement Battery Part No. D2-BAT-1



Backup Battery (supplied with new panels) C-more panels use battery backed RAM to store retentive values for internal tags. This battery will last for up to two years, and is easy to replace. You can even set up an alarm condition, and let C-more remind you when the battery needs replacing. The C-more panels come with the D2-BAT-1 already installed.

NOTE: The D2-BAT-1 is the same battery used in our DL06, D2-250(-1), D2-260 and D3-350 PLC products.

### Part No. EA-8-BEZEL, EA-10-BEZEL, EA-12-BEZEL and EA-15-BEZEL



NEMA 4/4X bezel, customer replaceable, for C-more 8", 10", 12" and 15" touch panels. Gasket not included.



CAUTION - The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not recharge, disassemble, heat above 100 °C (212 °F) or incinerate. Replace battery with AutomationDirect part number D2-BAT-1 or CR2354 only. Use of another battery may present a risk of fire or explosion. Dispose of used battery properly. Keep away from children.

Perchlorate Material, special disposal handling may apply.

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www.automationdirect.com/C-more

**C-more** Operator Touch Panels

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