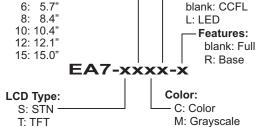
C-more Operator Panels Overview





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

			Overview
Part Number	Description	Price	Programma
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, IP65 (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.	<>	Field I/O Software
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 correctly; for indoor use only), non-replaceable LED backlight, 50,000 hour half-life. Built-in USB, no Ethernet or Compact Flash support.	<>	C-more & other HMI Drives Soft
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, IPS6 (when mounted correctly: for indoor use only), non-replaceable backlight, 50,000 hour half-life. Built-in Ethernet and USB; supports Compact Flash.	<>	Starters Motors & Gearbox Steppers/
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 correctly; for indoor use only), non-replaceable LED backlight, 50,000 hour half-life. Built-in Ethernet and USB; supports Compact Flash.	<>	Servos Motor Controls Proximity
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 4/4X, IP65 (when mounted correctly; for indoor use only), user replaceable backlight, 50,000 hour half-life. Built-in Ethernet and USB; supports Compact Flash.	<>	Sensors Photo Sensors Limit Switches
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.	<>	Encoders Current Sensors
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.	<>	Pressure Sensors Temperatu Sensors
EA7-T15C	15-inch C-more 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.	<>	Pushbutto Lights Process Relays/
EA-PGMSW	<i>C-more</i> touch panel Windows-based configuration software. Requires Windows 2000 (Service Pack 4), XP Home or Professional (Service Pack 2) or Vista. Includes software installation guide and CD-ROM. Requires USB 1.1 or Ethernet connection to touch panel. Cables sold separately.	<>	Timers Comm. Terminal
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-more</i> touch panel for setup and programming. (Note: Touch panels require a 24 VDC power source for configuration and operation.)	<>	Blocks & Wiring Power
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.)	<>	Circuit Protection
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.)	<>	Enclosure: Tools
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.)	<>	Pneumatio Appendix

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/ C - m o r e

C-more Selection Guide & Specifications

ModelSpecificationPart NumberPart NumberPriceDisplay Actual Size and TypeColor ScaleDisplay Viewing AreaScreen PixelsDisplay BrightnessCD Panel Dot PitchBacklight Average Lifetime*Backlight User ReplaceableTouch Panel TypeCPU TypeBatterySystem MemorySystem Flash MemoryBackup Memory (SRAM)Logging Data MemoryRealtime ClockCalendar – Month/Day/YearScreen SaverSerial PLC InterfaceUSB Port – Type B	300 cd/m² (NITS) 0.267 mm x 0.267 mm Yes – Correct replaceme Analog Resistive (10-bit reso	8.31" x 6.24" [211.2 mm x 158.4 mm] 80 (VGA) 270 cd/m² (NITS) 0.33 mm x 0.33 mm Approximatel nt bulb is dependent on the panel seria	12" TFT color w/ full features EA7-T12C Image: Color state of the sta	15" TFT color w/ full features EA7-T15C If the second sec	
PriceDisplay Actual Size and TypeDisplay Actual Size and TypeColor ScaleDisplay Viewing AreaScreen PixelsDisplay BrightnessCD Panel Dot PitchBacklight Average Lifetime*Backlight User ReplaceableFouch Panel TypeCPU TypeBatterySystem MemorySystem Flash MemoryBackup Memory (SRAM)Cogging Data MemorySumber of ScreensRealtime ClockCalendar – Month/Day/YearSerial PLC Interface	> 8.4" TFT color 6.73" x 5.05" [170.9 mm x 128.2 mm] 640 x 4 300 cd/m² (NITS) 0.267 mm x 0.267 mm Yes – Correct replaceme Analog Resistive (10-bit reso	> 10.4" TFT color 65,530 8.31" x 6.24" [211.2 mm x 158.4 mm] 80 (VGA) 270 cd/m² (NITS) 0.33 mm x 0.33 mm Approximatel nt bulb is dependent on the panel seria	> 12.1" TFT color 6 colors 9.47" x 7.62" [240.6 mm x 184.5 mm] 800 x 600 (SVGA) 260 cd/m² (NITS) 0.267 mm x 0.267 mm	> 15.0" TFT color 11.97" x 8.98" [304.1 mm x 228.1 mm] 1024 x 768 (XGA)	
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Inisplay Actual Size and TypeSolor ScaleSolor ScaleSolor ScaleSolor ScaleSisplay Viewing AreaScreen PixelsSisplay BrightnessCD Panel Dot PitchSacklight Average Lifetime*Sacklight User ReplaceableSouch Panel TypePU TypeSatterySystem MemorySystem Flash MemorySackup Memory (SRAM)Sogging Data MemorySalendar – Month/Day/YearSareen SaverSerial PLC Interface	8.4" TFT color 6.73" x 5.05" [170.9 mm x 128.2 mm] 640 x 4 300 cd/m² (NITS) 0.267 mm x 0.267 mm Yes – Correct replaceme Analog Resistive (10-bit reso	10.4" TFT color 65,53([211.2 mm x 158.4 mm] 80 (VGA) 270 cd/m² (NITS) 0.33 mm x 0.33 mm Approximatel nt bulb is dependent on the panel seria	12.1" TFT color 6 colors 9.47" x 7.62" [240.6 mm x 184.5 mm] 800 x 600 (SVGA) 260 cd/m² (NITS) 0.267 mm x 0.267 mm	15.0" TFT color 11.97" x 8.98" [304.1 mm x 228.1 mm] 1024 x 768 (XGA)	
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Packlight Average Lifetime* Packlight User Replaceable Fouch Panel Type Pu Type Put Type Pattery Pystem Memory Pystem Flash Memory Packup Memory (SRAM) ogging Data Memory Iumber of Screens Paltime Clock Palendar – Month/Day/Year Parent PLC Interface	Yes – Correct replaceme Analog Resistive (10-bit reso	Approximatel nt bulb is dependent on the panel seria		0.297 mm x 0.297 mm	
Packlight User Replaceable Facklight User Replaceable Fouch Panel Type PU Type Put Type	Analog Resistive (10-bit reso	nt bulb is dependent on the panel seria	V NI NAUTUULIS	0.237 11111 A 0.237 11111	
Type CPU Type Content of Server Calendar – Month/Day/Year Cereen Saver Cerial PLC Interface	Analog Resistive (10-bit reso			ection for complete details	
PU Type Image: Constraint of the second		lution, 1024 x 1024 touch area)		ution, 4096 x 4096 touch area)	
Battery System Memory System Flash Memory Backup Memory (SRAM) Logging Data Memory Number of Screens Realtime Clock Calendar – Month/Day/Year Screen Saver Serial PLC Interface	3E DIT100 (CPU (400 MHz)	• (Plus Graphic Accelerator Chip	
System Memory System Flash Memory Backup Memory (SRAM) ogging Data Memory Jumber of Screens Realtime Clock Calendar – Month/Day/Year Screen Saver Serial PLC Interface		()	2-BAT-1 (Manufacturer Part # CR2354)		
System Flash Memory Backup Memory (SRAM) Logging Data Memory Number of Screens Realtime Clock Calendar – Month/Day/Year Screen Saver Serial PLC Interface	SDRAM	32 MBytes		64 MBytes	
ackup Memory (SRAM) ogging Data Memory lumber of Screens lealtime Clock Calendar – Month/Day/Year Creen Saver lerial PLC Interface		32 MBytes		64 MBytes	
ogging Data Memory umber of Screens ealtime Clock alendar – Month/Day/Year creen Saver erial PLC Interface	Control data backup memory (SRAM) 256 KBytes				
ealtime Clock alendar – Month/Day/Year creen Saver erial PLC Interface	CompactFlash Memory Card p/n EA-CF-CARD, industrial grade, high speed (Optional) or USB Pen Drive p/n SDCZ4-2048-A10 (Optional)				
alendar – Month/Day/Year creen Saver erial PLC Interface	Up to 999 – limited by available project memory (10 MBytes) Up to 999 – limited by available project memory (40 MBytes)				
creen Saver erial PLC Interface	Built into panel (PLC clock is still accessible if available)				
erial PLC Interface	Yes - battery backup				
	Ye	es, backlight turns off after a 30–1500 i	minute adjustable time, or can be disa	bled	
SB Port – Tvoe B		Serial PLC Port: RS-232C/4	22/485 15-Pin D-sub (female)		
		Download/Program – U	SB Port – type B (ver. 1.2)		
SB Port – Type A		Port for USB device or	otions – type A (ver. 1.2)		
hernet Port	Ethernet 10/100 Base-T				
udio Line Out		Audio Line Out, 1 Volt rms, stereo	- requires amplifier and speaker(s)		
F Card – Slot #1	Optional: CompactFlash Me	emory Card p/n EA-CF-CARD, industri	al grade, high speed, CF slot #1 locat	ed on top side of touch panel.	
Expansion Assembly (p/n EA-EXP-OPT)	Optional: Use the CF Card I	nterface Module p/n EA-CF-IF in the r The left slot of the Expansion	ight slot of the Expansion Assembly fo Assembly is for future options.	r installing CF card - Slot #2.	
Supply Power	(Use an AC Powe	24 VDC, -15%, +20% (20.4 er Adapter, p/n EA-AC, to power the tou	4–28.8 VDC operating range) Jch 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		
perating Temperature		. ,	bunding air temperature rating: 50°C		
Storage Temperature			(-4 to +140°F)		
lumidity			non-condensing		
loise Immunity		o 11,	Ilse width: 1 µs, Rise time: 1 ns		
Vithstand Voltage	10	00 VDC for 1 minute, between DC pow		Dund	
sulation Resistance		1	pply input terminal and safety ground	af 0 mode allo second l'	
ibration		Hz: 0.075 mm amplitude, 57–150 Hz 1	1 7 1	,,,,,	
hock	1	5 G peak, 11 ms duration, 2 shocks p		ies	
nclosure			unted correctly. For indoor use only.		
invironment			Degree 2 Environment		
Agency Approvals	0.7401 40.0041 0.0501		UL file 157382	40.0001 40.7401	
		10.669" x 13.661" x 2.079" [271.0 mm x 347.0 mm x 52.8 mm]			
Weight * NOTE: The backlight average lifetime i	2.60 lb. [1,180 g]	3.55 lb. [1,610 g]	4.59 lb. [2,080 g]	7.01 lb. [3,180 g]	

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Company Information

Systems

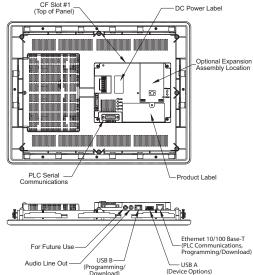
C-more 15" TFT Color Touch Panel - Full Model

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 & CE agency approvals
- 2-year warranty from date of purchase

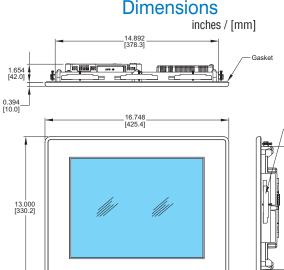
Ports & Memory Expansion

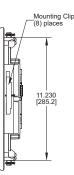


(Programming, Download)

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







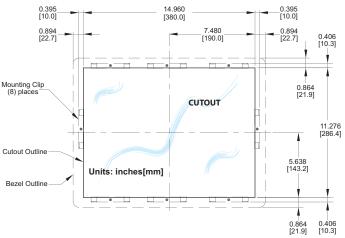
Part No. EA7-T15C



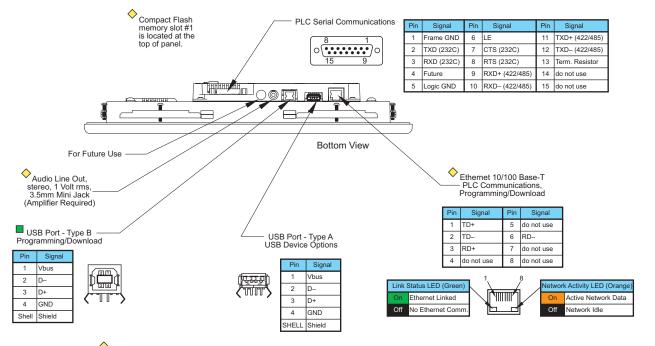
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PLC Drivers	
Serial	Avail.
Productivity3000	Yes
AutomationDirect CLICK	Yes
Direct LOGIC K-sequence	Yes
Direct NET	Yes
Modbus (Koyo Addressing)	Yes
Allen-Bradley DF1 Full & Half Duplex	Yes
Allen-Bradley PLC5 DF1	Yes
Allen-Bradley DH-485	Yes
Allen-Bradley DF1 Full & Half Duplex	
 Tag Based (ControlLogix[™] and 	Yes
CompactLogix™)	
Modbus RTU	Yes
Entivity Modbus RTU	Yes
GE SNPX (90/30, 90/70),	Yes
Micro 90, VersaMax Micro)	100
Omron Host Link	Yes
C200 Adapter C500	No.
Omron FINS (CJ1, CS1)	Yes
Mitsubishi FX Mitsubishi Q02, Q02H, Q06H, Q12H,	Yes
Q25H	Yes
Mitsubishi Q, QnA Serial	Yes
Siemens PPI (S7-200 CPU)	Yes
Ethernet	162
Productivitv3000	Yes
Direct LOGIC Ethernet	Yes
Modbus TCP/IP	Yes
Entivity Modbus TCP/IP	Yes
Allen-Bradley EtherNet/IP™	TES
Server - Generic I/O Messaging*	Yes
Allen-Bradley EtherNet/IP	
Client - Tag Based (ControlLogix™	Yes
and CompactLogix™)	
Allen-Bradley EtherNet/IP Client -	
MicroLogix 1100 & SLC 5/05 via	
native Ethernet port; MicroLogix	Yes
1000, 1100, 1200, 1400, 1500 & SLC	
5-03, 04, 05 via AB ENI Adapter	
Omron FINS	Yes
Mitsubishi Q, QnA Ethernet	Yes
Siemens (S7-200 CPU, S7-300 CPU)	Yes

Mounting Cutout



C-more Communication Ports



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

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

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

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

USB Port B

Program C-more via the USB programming port. It's fast and easy, with no baud rate settings, parity, or stop bits to worry about. We stock standard USB cables for your convenience. USB Port B can be used to upload or download projects to and from a PC.

USB Port A

The Universal Serial Bus (USB) Port A is a standard feature for all models and can be used to connect various USB HID (Human Input Device) devices to the panel, such as:

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

C-more can log data to the USB pen drive as well as load projects to the panel from the pen drive. You can also back up project files and panel firmware.

Sound Interface (Audio Line Out)

When attached to an amplifier and speaker(s), C-more can play warning sounds or pre-recorded messages such as: "conveyor is jammed". C-more supports WAV type files. The output is stereo

Company Informatio

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Current

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Pressure

Sensors

Sensors

Process

Relays/ Timers

Comm.

nclosures

neumatics

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Temperature

Pushbuttons/ Lights

Sensors

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 AutomationDirect.com PLCs: Productivity3000 <i>Direct</i> LOGIC K-sequence <i>Direct</i> NET Modbus (Koyo Addressing) CLICK	Terminal Blocks & Wiring Power
Allen Bradley: DF1 Full & Half Duplex DF1 Full & Half Duplex - Tag Based PLC5 DF1 DH485	Circuit Protection Enclosure
Modbus RTU Entivity Modbus RTU GE SNPX (90/30, 90/70, Micro 90, VersaMax Micro) Omron:	Tools Pneumatio Appendix
Host Link (C200 Adapter, C500) FINS (CJ1, CS1) Mitsubishi: Melsec FX Q/QnA Siemens PPI (S7-200 CPU)	Product Index Part # Index

C-more Communication Protocols & Cables

Price

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DLC Comilie	Madal	Compatibility Table	Protocolo	Cable	Cable Part Numb	
PLC Family	Model	00/4000/4 400/4500	Protocols	Description	Part Numb	
	MicroLogix 1000/1 SLC 5-/01/02/03, P	00/1200/1400/1500,	DH485/AIC/AIC+	Productivity3000 AutomationDirect CLICK, Direct LOGIC PLC RJ-12 port, DL05, DL06, DL105, DL205, D3-350, D4-450 & H2-WinPLC (RS-232C)		
		100, 1200 and 1500		Direct OGIC PLC R.I-12 port	EA 0001	
	SLC 5-/03/04/05		DF1 Half Duplex; DF1 Full Duplex	DL05, DL06, DL105, DL205,	EA-2CBL	
		npactLogix™, FlexLogix™		D3-350, D4-450 & H2-WinPLC (BS-232C)		
	PLC-5	ipaoleogik (Tiokeogik	DF1 Full Duplex			
llen-Bradley		actLogix, FlexLogix - Tag Based	DF1 Half Duplex; DF1 Full Duplex	Direct LOGIC (VGA Style) 15-pin port, DL06, D2-250 (250-1), D2-260 (RS-232C)	EA-2CBL-1	
nen brauley		actLogix, FlexLogix - ing	EtherNet/IP Server	(250-1), D2-260 (RS-232C)		
			Ethernet/IP Server			
	ControlLogix, CompactLogix, FlexLogix - Tag Based			Direct LOGIC PLC RJ-11 port, D3-340 (RS-232C)	EA-3CBL	
	MicroLogix 1100 & both via native Ether	SLC 5/05, net port	EtherNet/IP Client	D3-340 (N3-2326)		
		100, 1200, 1400,1500 &		Direct LOGIC DL405 PLC 15-pin D-sub port, DL405		
	SLC 5-03/04/05, all	via ENI Adapter		15-pin D-sub port, DL405 (RS-232C)	EA-4CBL-1	
Modbus TCP/IP	Modbus TCP/IP de	vices	Modbus TCP/IP			
GE	90/30, 90/70, Micro	90, VersaMax Micro	SNPX	<i>Direct</i> LOGIC PLC 25-pin D-sub port, DL405, D3-350, DL305 DCU and all DCM's (RS-232C)	EA-4CBL-2	
	FX Series		FX Direct	DCÚ and all DCM's (RS-232C)		
Vitsubishi	Q02, Q02H, Q06H,	Q12H, Q25H	Q CPU	Allen-Bradley MicroLogix 1000,		
VIIISUDISIII	Q, QnA Serial		QnA Serial	Allen-Bradley MicroLogix 1000, 1100, 1200, 1400 & 1500 (RS-232C)	EA-MLOGIX-C	
	Q, Qna Ethernet		QnA Ethernet			
Omron	C200 Adapter, C500		Host Link	Allen-Bradley SLC 5-03/04/05 ControlLogix, CompactLogix, FlexLogix, DF1 port (RS-232C)	EA-SLC-232-0	
JIIII UII	CJ1/CS1 Serial, CJ		FINS	FlexLogix, DF1 port (RS-232C)		
Modicon	984 CPU, Quantum	113 CPU, AEG Modicon Micro 1-xx, 411-xx, 512-xx, 612-xx	Modbus RTU			
			PPI	Allen-Bradley PLC-5 DF1 port (RS-232C)	EA-PLC5-232	
Siemens	S7-200 CPU, RS-485 Serial		Ethernet ISO over TCP			
	S7-200 CPU, S7-300 CPU; Ethernet		AutomationDirect P3000 Serial	Allen-Bradley SLC 500 DH485 port (RS-485A)	EA-DH485-CB	
Productivity3000	Productivity3000 Serial (P3-550)			(RS-485A)	LA-DH40J-6	
-	Productivity3000 Ethernet (P3-550)		AutomationDirect P3000 Ethernet			
CLICK	all		AutomationDirect Modbus (CLICK)	GE 90/30, 90/70, Micro 90, VersaMax Micro	EA-90-30-CBL	
			K-Sequence	15-pin D-sub port (RS-422A)		
	DL05/DL06	all	DirectNET	MITSUBISHI FX Series 25-pin port (RS-422A)		
	,		Modbus (Koyo addressing)	25-pin port (BS-422A)	EA-MITSU-CB	
	DL 405	H0-ECOM/H0-ECOM100	Direct LOGIC Ethernet			
	DL105	all	K-Sequence	MITSUBISHI FX Series 8-pin mini-DIN	EA-MITSU-CB	
		D2-230	K-Sequence	8-pin mini-DIN (RS-422A)	2.1.1.1.00 02	
		D2-240	K-Sequence	OMBON Host Link		
			Direct NET	OMRON Host Link C200 Adapter, C500 (RS-232C)	EA-OMRON-C	
	DL205	D2-250/D2-250-1/D2-260	K-Sequence Direct NET	(no-2020)		
	DL200	D2-230/D2-230-1/D2-200	Modbus (Koyo addressing)			
			DirectNET			
		D2-240/D2-250-1/D2-260 Using DCM	Modbus (Koyo addressing)			
		H2-ECOM/H2-ECOM100	Direct LOGIC Ethernet			
		D3-330/330P			TE: EZTouch serial	
		(Requires the use of a Data	Direct NET		nmunication cable npatible with C-m	
		Communications Unit)	D/ AUT		ch panels.	
		D3-340	DirectNET			
DirectLOGIC	DL305	D3-350	K-Sequence Direct NET		EA-2CBL	
			Modbus (Koyo addressing)			
			DirectNET			
		D3-350 DCM	Modbus (Koyo addressing)			
			K-Sequence			
		D4-430	Direct NET			
	D4-440		K-Sequence			
		DirectNET				
			K-Sequence			
	DL405 D4-450	DirectNET	Classe 0	(T)		
		Modbus (Koyo addressing)		-		
			Direct NET			
		All with DCM	Modbus (Koyo addressing)	E	A-2CBL-1	
		H4-ECOM/H4-ECOM100	Direct LOGIC Ethernet			
	H2-WinPLC (Think	& Do) Live V5.2 or later and	Think & Do Modbus BTU			
	Studio any version		(serial port)			
	H2-WinPLC (Think	& Do) Live V5.5.1 or later and er	Think & Do Modbus TCP/IP (Ethernet port)	All		

C-more Computer Programming Connections

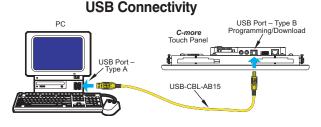
Using the *C-more* Programming Software for project development, the touch panel can be connected to a PC (personal computer) in one of several ways:

 Connect a USB Programming Cable 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.

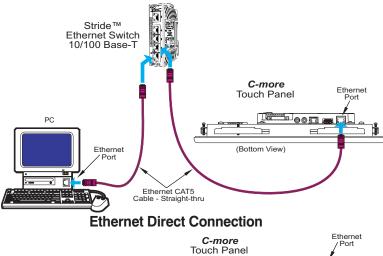
- Connect the *C-more* touch panel to a PC via an Ethernet hub or switch, and CAT5 Ethernet cables (full feature panels only). Multiple panels can be programmed in this configuration.
- Use an Ethernet crossover cable directly between the *C-more* touch panel's Ethernet port and the PC Ethernet port (full feature panels only).

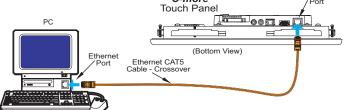
Following are the minimum system requirements for running **C-more** Programming Software (p/n EA-PGMSW) on a PC:

- 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^{*} Vista, Windows^{*} XP Home / Professional Edition or Windows^{*} 2000 with Service Pack 4.



Ethernet Connectivity via a Hub or Switch





USB Programming Cable



Part No. USB-CBL-AB15

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



Motor Controls

Proximity

Sensors

Photo

Sensors

Company Informatior

Systems Overview

Programmable

Controllers

Field I/O

Software

C-more 8 other HM

Drives

Stride™ Ethernet Switch



Message is sent out only from the port connected to destination device

> Limit Switches

Encoders

Current Sensors

> Pressure Sensors

Temperature Sensors

Pushbuttons/

Lights

Process

Relays

Timers

Part No. SE-SW5U

Ethernet Configuration Kit



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.



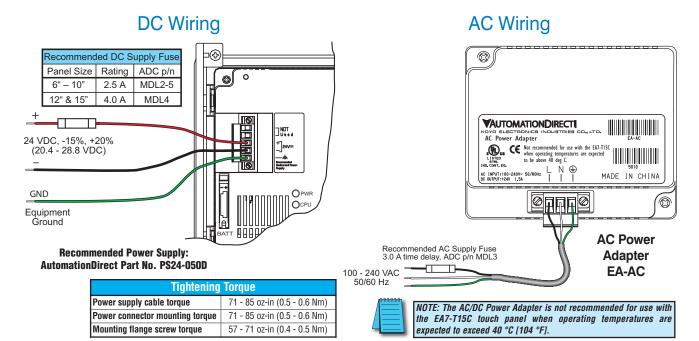
Part # Index

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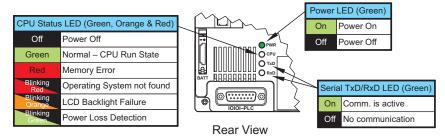
C-more Power Connection Wiring

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.



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.

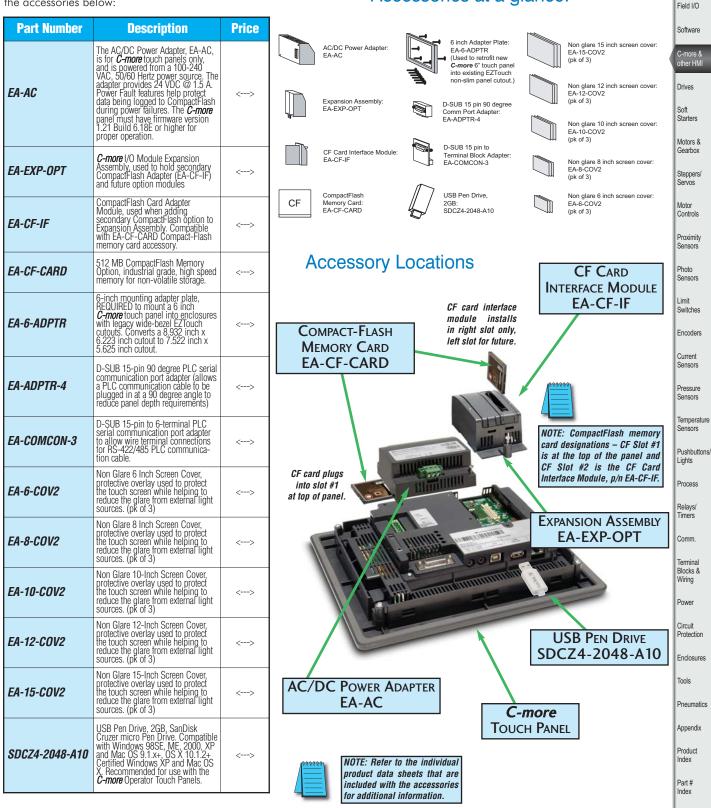
If you have any questions concerning the installation or operation of this equipment, or if you need additional information, pleasecallusator This publication is based on information that was available at the time it was printed.

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.

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Accessories

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



Accessories at a glance:

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Company Information

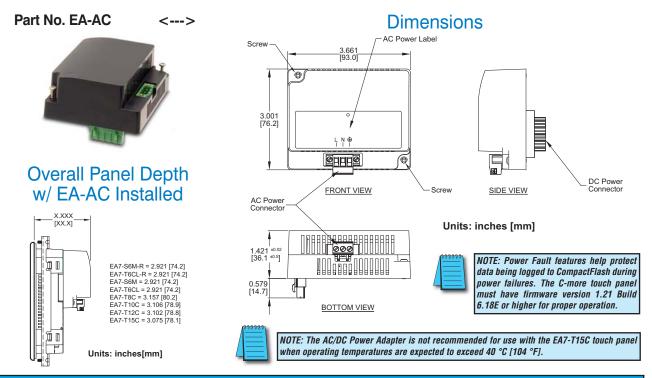
Systems Overview

Programmable Controllers

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

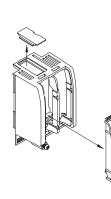
Part Number	EA-AC	Static Electricity Discharge Resistance	Compliant with IEC61000-4-2, Contact: 4 kV, Air: 8 kV
Input Voltage & Frequency	100-240 VAC; 50/60 Hertz	Agency Approvals	UL508, cUL, CE, EMC EN61132-2
Voltage Range	85-264 VAC w/ Under Voltage and Over Voltage Shutdown	Environment	For use in 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-T15C 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 $\mu s,$ 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		

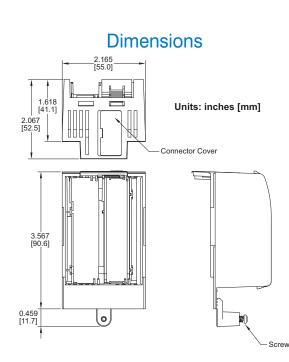
Expansion Assembly

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.

Part No. EA-EXP-OPT







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.

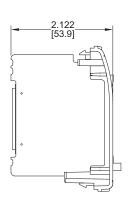
CF Card Interface Module

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.

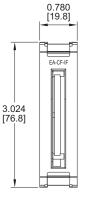
Part No. EA-CF-IF

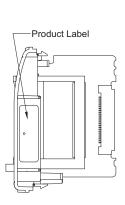


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Dimensions





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Product Index Part # Index

Units: inches [mm]



Systems Overview

Company Information

Programmable Controllers

> Field I/O Software

C-more 8 other HM

Drives

Soft Starters

Motors & Gearbox

Steppers/ Servos

Motor Controls

Proximity

Sensors

Photo

Limit

Switches

Encoders

Current Sensors

Pressure

Sensors

Process

Relays/ Timers

Comm

Terminal Blocks &

Wiring

Power

Circuit Protection

Enclosures Tools

Pneumatics Appendix

Temperature Sensors Pushbuttons/ Lights

Sensors

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



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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 $^\circ F$ (-25 to 90 $^\circ C$)
- Storage Humidity 95% max, non-condensing

USB Pen Drive

Part No. SDCZ4-2048-A10



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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.

Specifications/Features:

• Dimensions: 7.9 mm x 18.95 mm x 52.2 mm (H x W x L)



- Hi-Speed USB 2.0 certified (backwards compatible with all USB 1.1 ports)
- Compatible with Windows 2000, XP, Vista and Mac OS 9.1.x+, OS X v10.1.2+
- Certified Windows XP, Vista and Mac OS X

* For Windows only

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.

Operator Interface

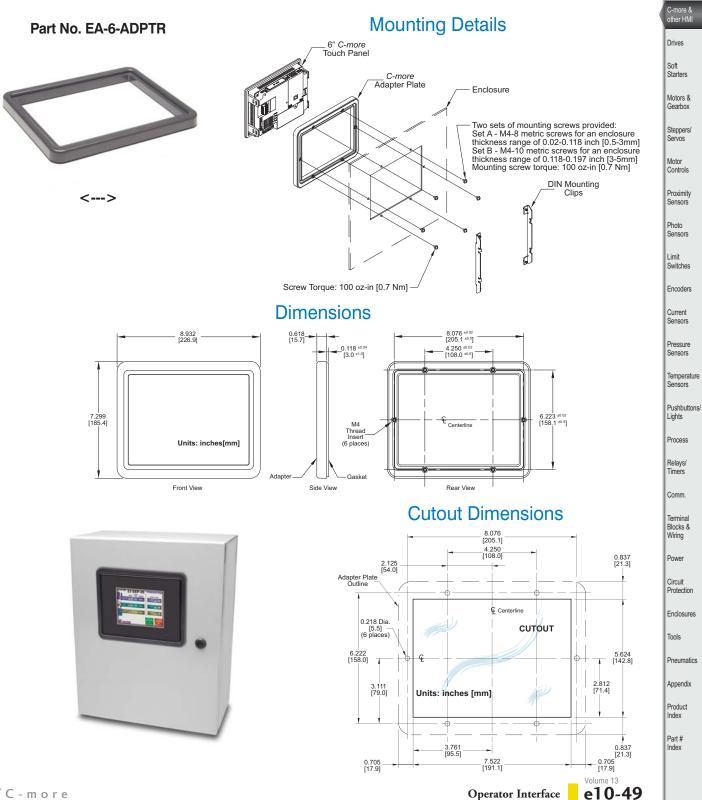
Company Information

Systems Overview

Field I/O

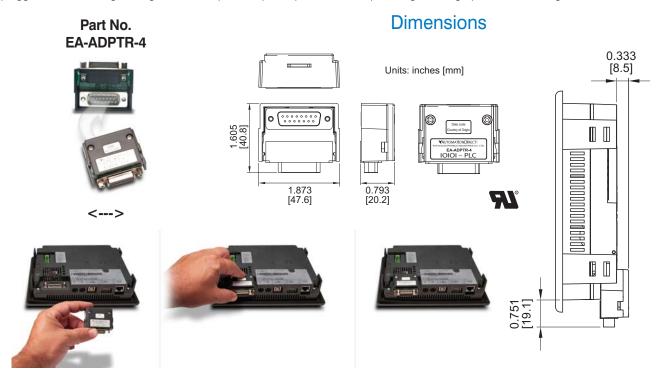
Software

Programmable Controllers



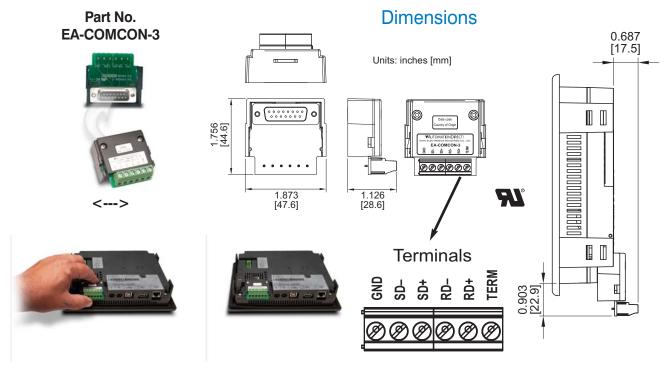
D-SUB 15-pin 90-degree Communication Port Adapter

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

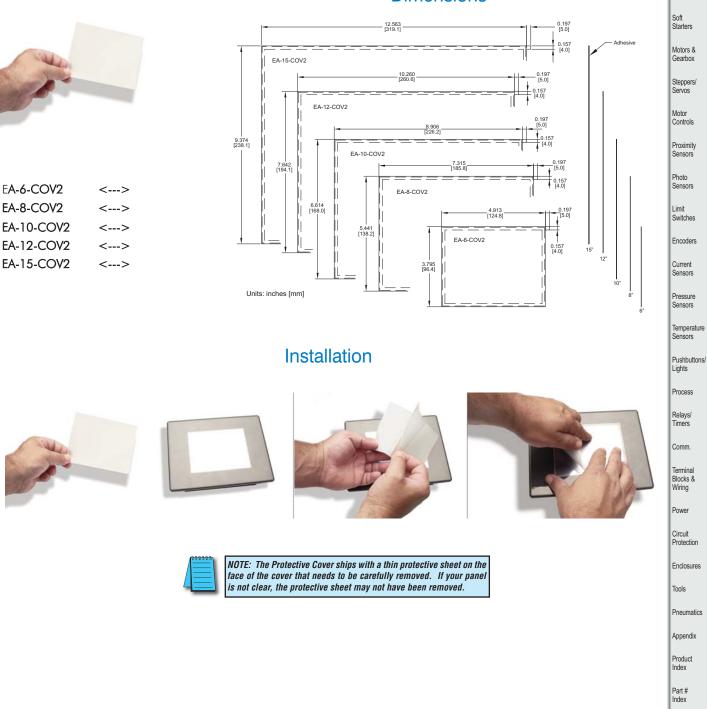
The EA-COMCON-3 adapter plugs into the 15-pin serial port on the rear of the panel to allow wire terminal connections for an RS-422/RS-485/DH-485 PLC communication cable. UL Recognized.



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

Company Information

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Programmable

Controllers

Field I/O Software

C-more & other HM

Drives

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C-more Replacement Parts

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:					
\bigcirc	Battery: D2-BAT-1	\square	15-inch gasket:		15-inch Bezel: EA-15-BEZEL
C. C	6-inch mounting clips: EA-BRK-1 (pk of 2)		EA-15-GSK		(gasket not included)
A A	8 - 15 inch mounting clips: EA-BRK-2 (pk of 8)	\square	12-inch gasket:		12-inch Bezel: EA-12-BEZEL
	DC power connector: EA-DC-CON	${\displaystyle\smile}$	EA-12-GSK		(gasket not included)
	AC power connector: EA-AC-CON	\square	10-inch gasket: EA-10-GSK		10-inch Bezel: EA-10-BEZEL (gasket not included)
	15-inch backlight: EA-15-BULB EA-15-BULB2	\leq	EA-10-GSK		8-inch Bezel:
	12-inch backlight: EA-12-BULB EA-12-BULB2	\Box	8-inch gasket: EA-8-GSK		EA-8-BEZEL (gasket not included) Note: 6-inch bezel is
	10-inch backlight: EA-10-BULB	7		\sim	not user replaceable.
	EA-10-BULB2 8-inch backlight: EA-8-BULB EA-8-BULB2	\Box	6-inch gasket: EA-6-GSK	\bigcup	6-inch Adapter Plate replacement gasket EA-6-ADPTR-GSK
1 <mark>888888</mark> 1	-				

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		
LA7-100	EA-8-BULB2	EA7-T8C+10Z15B021 and newer		
EA7-T10C	EA-10-BULB	EA7-T10C+10Z11B080 and older		
	EA-10-BULB2	EA7-T10C+10Z11B081 and newer		
EA7-T12C	EA-12-BULB	EA7-T12C+10Z29B019 and older		
LA7-1120	EA-12-BULB2	EA7-T12C+10Z29B020 and newer		
EA7-T15C	EA-15-BULB	EA7-T15C+10Z22B120 and older		
LA7-1150	EA-15-BULB2	EA7-T15C+10Z22B121 and newer		

Serial Number = [Part Number]+[YYMDDFNNN] Date Code = YYMF

- Year (05–99 --- e.g. 05 = 2005) Month (1–9, X, Y, Z --- e.g. X = Oct.) Day (1–31) YY:
- M٠ DD:
- F: Manufacturing Site (0–9, A–Z) NNN: Sequence number for the date listed (000–999)

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

Part No.



Backlight assembly, customer replaceable, for C-more 8", 10", 12" and 15" touch panels. The 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



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.

AC Power Connector Part No. EA-AC-CON



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

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.

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.

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-8-BEZEL, EA-10-BEZEL, EA-12-BEZEL and EA-15-BEZEL

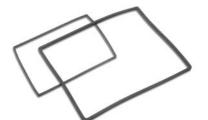


NEMA 4/4X bezel, customer replaceable, for **C-more** 8", 10", 12" and 15" touch panels. Gasket not included.



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.

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.

Part No. EA-6-ADPTR-GSK



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



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