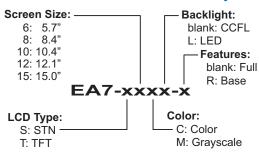
C-more Operator Panels Overview

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" 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

| 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, 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. | <> |
| 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. | <> |
| 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, IP66 (when mounted correctly; 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 4/4X, IP65 (when mounted correctly; or 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; or 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) or Vista, 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-more</i> 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.) | <> |



Company Information

Systems Overview

Programmable Controllers

Field I/O

Software
C-more &

Drives

Starters

Motors &

Gearbox Steppers/

Motor Controls

Servos

Proximity Sensors

Photo Sensors

Limit Switches Encoders

Current Sensors

Pressure Sensors

Temperature Sensors

Pushbuttons/ Lights

Process
Relays/
Timers

Comm.

Terminal Blocks & Wiring

Power

Circuit Protection

Enclosures

Tools
Pneumatics

Appendix

Product Index

Part # Index

C-more Selection Guide & Specifications

| Model | | 10" TFT color | 12" TFT color | 15" TFT color |
|-------------------------------------|--|---|--|---|
| Specification | w/ full features | w/ full features | w/ full features | w/ full features |
| Part Number | EA7-T8C | EA7-T10C | EA7-T12C | EA7-T15C |
| | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
| Price | <> | <> | <> | <> |
| Display Actual Size and Type | 8.4" TFT color | 10.4" TFT color | 12.1" TFT color | 15.0" TFT color |
| Color Scale | | , | colors | |
| Display Viewing Area | 6.73" x 5.05" [170.9 mm x 128.2 mm] | 8.31" x 6.24" [211.2 mm x 158.4 mm] | 9.47" x 7.62" [240.6 mm x 184.5 mm] | 11.97" x 8.98" [304.1 mm x 228.1 mm] |
| Screen Pixels | 640 x 4 | 80 (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 | 50,000 hours | |
| Backlight User Replaceable | | nt bulb is dependent on the panel seria | | · · · · · · · · · · · · · · · · · · · |
| Touch Panel Type | | lution, 1024 x 1024 touch area) | , , , , , , , , , , , , , , , , , , , | lution, 4096 x 4096 touch area) |
| CPU Type | 32-Bit RISC (| CPU (400 MHz) | | Plus Graphic Accelerator Chip |
| Battery | | Replaceable battery – ADC Part # D2- | , | <u> </u> |
| System Memory | | 32 MBytes | | 64 MBytes |
| System Flash Memory | FLASH 3 | 32 MBytes | | 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) | | | |
| Number of Screens | Up to 999 – limited by availab | ole project memory (10 MBytes) | Up to 999 – limited by availab | ole project memory (40 MBytes) |
| Realtime Clock | Built into panel (PLC clock is still accessible if available) | | | |
| Calendar – Month/Day/Year | Yes - battery backup | | | |
| Screen Saver | Yes, backlight turns off after a 30–1500 minute adjustable time, or can be disabled | | | |
| Serial PLC Interface | Serial PLC Port: RS-232C/422/485 15-Pin D-sub (female) | | | |
| USB Port – Type B | Download/Program – USB Port – type B (ver. 1.2) | | | |
| USB Port – Type A | | Port for USB device op | | |
| Ethernet Port | | | /100 Base-T | |
| Audio Line Out | | Audio Line Out, 1 Volt rms, stereo | 1 1 1 | |
| CF Card – Slot #1 | Optional: CompactFlash Memory Card p/n EA-CF-CARD, industrial grade, high speed, CF slot #1 located on top side of touch panel. | | | |
| Expansion Assembly (p/n EA-EXP-OPT) | Optional: Use the CF Card Interface Module p/n EA-CF-IF in the right slot of the Expansion Assembly for installing CF card - Slot #2. The left slot of the Expansion Assembly is for future options. | | | |
| Supply Power | 24 VDC, -15%, +20% (20.4–28.8 VDC operating range) (Use an AC Power Adapter, p/n EA-AC, to power the touch panel from a 100-240 VAC, 50/60 Hz. power source.) | | | Hz. power source.) |
| Power Consumption | 15 W @ 24 VDC | 17 W @ 24 VDC | 20 W @ 24 VDC | 33 W @ 24 VDC |
| Recommended Input Fuse | 3.0 A DC slow blow | | | |
| Operating Temperature | 0 to 50°C (32 to 122°F) Max surrounding air temperature rating: 50°C | | | |
| Storage Temperature | −20 to +60°C (−4 to +140°F) | | | |
| Humidity | 10–85% RH, non-condensing | | | |
| Noise Immunity | Noise voltage: 1000 Vp-p, Pulse width: 1 μs, Rise time: 1 ns | | | |
| Withstand Voltage | 1000 VDC for 1 minute, between DC power supply input terminal and safety ground | | | |
| Insulation Resistance | Over 20 MΩ between DC power supply input terminal and safety ground | | | |
| Vibration | IEC61131-2 compliant, 10–57 Hz: 0.075 mm amplitude, 57–150 Hz 1.0 G: 10 sweep cycles per axis on each of 3 mutually perpendicular axes | | | |
| Shock | 15 G peak, 11 ms duration, 2 shocks per axis, on 3 mutually perpendicular axes | | | |
| Enclosure | IP65 Meets UL Type 4X when mounted correctly. For indoor use only. | | | |
| Environment | For use in Pollution Degree 2 Environment | | | |
| Agency Approvals | UL, cUL, CE; UL file 157382 8.748" x 10.894" x 2.053" | | | |
| Dimensions | 8.748" x 10.894" x 2.053" [222.2 mm x 276.7 mm x 52.1 mm] | [271.0 mm x 347.0 mm x 52.8 mm] | | |
| Weight | 2.60 lb. [1,180 g] | 3.55 lb. [1,610 g] | 4.59 lb. [2,080 g] | 7.01 lb. [3,180 g] |

* NOTE: The backlight average lifetime is defined as the average usage time it takes before the brightness becomes 50% of the initial brightness. The lifetime of the backlight depends on the ambient temperature. The lifetime will decrease under low or high temperature usage.



Company Information

Systems Overview

Field I/O

Software

Drives

Soft Starters Motors &

Gearbox Steppers/ Servos

Controls

Proximity

Sensors

Photo

Switches Encoders

Sensors

Pressure

Temperature

Pushbuttons/ Lights

Process

Relays/ Timers

Terminal Blocks & Wiring

Power

Circuit Protection

Enclosures

Tools

Pneumatics

Appendix

Product

Part #

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

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

Part No. EA7-T15C



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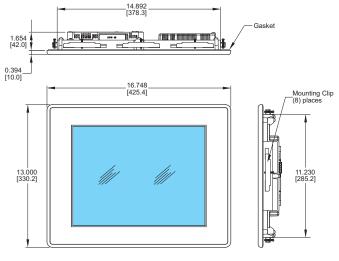






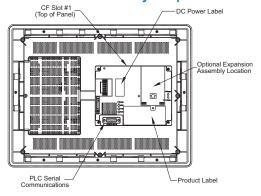
Dimensions

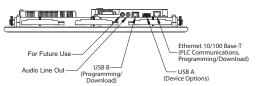
inches / [mm]



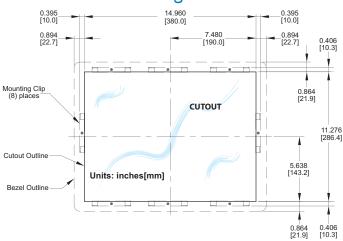
| Serial Avail. Productivity3000 Yes AutomationDirect CLICK Yes Direct LOGIC K-sequence Yes Direct NET Yes Modbus (Koyo Addressing) Yes Allen-Bradley DF1 Full & Half Duplex Yes Allen-Bradley DF1 Full & Half Duplex Yes - Tag Based (ControlLogix™ and CompactLogix™ Modbus RTU Yes Compact Logix Modbus RTU Yes ES NPX (90/30, 90/70), Micro 90, VersaMax Micro) Yes Morber CSO Yes Milsubishi RX Yes Milsubishi QX, QAS Asial Yes Milsubishi QX, QAS Asial Yes Siemens PPI (S7-200 CPU) Yes Ethernet Yes Modbus TCP/IP Yes Milsubishi QX, QAS Asial Yes Siemens PPI (S7-200 CPU) Yes Ethernet Yes Modbus TCP/IP Yes Allen-Bradley EtherNet/IPP Yes Client Tag Based (ControlLogix™ and tive Ethernet port, MicroLogix Yes Milsubishi QX, As AB ENI Adapter | PLC Drivers | | |
|---|--|-----|--|
| AutomationDirect CLICK Yes Direct LOGIC K-sequence Yes Direct NET Yes Modbus (Koyo Addressing) Yes Allen-Bradley DF1 Full & Half Duplex Yes Compact Logix Yes Allen-Bradley DF1 Full & Half Duplex Yes Entivity Modbus RTU Yes Entivity Modbus RTU Yes Entivity Modbus RTU Yes Entivity Modbus RTU Yes Milsubishi FX Yes Milsubishi FX Yes Milsubishi QQ, QQ2H, Q06H, Q12H, Q25H Milsubishi QQ, QQ2H, Q06H, Q12H, Q25H Milsubishi QQ, QQ2H, Q06H, Q12H, Q25H Milsubishi QQ, QQ2H, Q06H, Q12H, Q85H Milsubishi QQ, QQ1H, Q06H, Q12H, Q85H Milsubishi QQ, Q05H, Q06H, Q12H, Q85H Milsubishi QQ, Q05H, Q06H, Q15H Milsubishi QQ, Q06H, Q06H, Q15H Milsubishi QQ, | | | |
| Direct LOGIC K-sequence Yes Direct NET Yes Modbus (Koyo Addressing) Yes Allen-Bradley DF1 Full & Half Duplex Yes Allen-Bradley DF1 Full & Half Duplex Yes Allen-Bradley DF1 Full & Half Duplex Yes - Tag Based (ControlLogix™ and Yes CompactLogix™ Yes Modbus RTU Yes Entivity Modbus RTU Yes GE SNFX (90/30, 90/70), Yes Micro 90, VersaMax Micro) Yes Omron FINS (5J1, CS1) Yes Mitsubishi FX Yes Mitsubishi CO2, Q02H, Q06H, Q12H, Q25H Yes Mitsubishi Q, QnA Serial Yes Siemens PPI (S7-200 CPU) Yes Ethernet Yes Productivity3000 Yes Diract LOGIC Ethernet Yes Modbus TCP/IP Yes Allen-Bradley EtherNet/IPS Yes Allen-Bradley EtherNet/IPC Client - MicroLogix Tool, Stop Via ranative Ethernet port, MicroLogix Tool & SLC 5-03, via AB ENI Adapter Yes Millsubishi Q, Q, Al Sivia AB ENI Adapter Yes | | Yes | |
| Direct NET Yes Modbus (Koyo Addressing) Yes Modbus (Koyo Addressing) Yes Allen-Bradley PF1 Full & Half Duplex Yes Allen-Bradley PF1 Full & Half Duplex Yes - Tag Based (ControlLogix™ and Yes Compact Logix™ Yes Modbus RTU Yes Entivity Modbus RTU Yes GE SNPX (90/30, 90/70) Yes Micro 90, VersaMax Micro) Yes Omron Host Link Yes C200 Adapter C500 Omron FINS (CJ1, CS1) Yes Mitsubishi TX Yes Mitsubishi Q2, 002H, 006H, 012H, 225H Yes Mitsubishi Q2, 002H, 006H, 012H, 225H Yes Siemens PPI (S7-200 CPU) Yes Ethernet Yes Direct LOGIC Ethernet Yes Modbus TCP/IP Yes Allen-Bradley EtherNet/IP™ Yes Allen-Bradley EtherNet/IP Client - MicroLogix 1100 & SLC 5/05 via native Ethernet port, MicroLogix 100, 1200, 1400, 1500 & SLC 5-03, 04, 05 via AB ENI Adapter Yes Milsubishi Di, Qu AB Ethernet Yes | AutomationDirect CLICK | Yes | |
| Modbus (Koyo Addressing) Allen-Bradley DF1 Full & Half Duplex - Tag Based (Controll.ogix™ and CompactLogix™) Modbus RTU Yes Fibrityl Modbus RTU Yes GE SNPX (90/30, 90/70), Micro 90, VersaMax Micro) Omron Host Link C200 Adapter C500 Omron FlNS (CJ1, CS1) Yes Mitsubish1 PX Yes Mitsubish1 PX Yes Mitsubish1 Q2, Q02H, Q06H, Q12H, Q25H Misubish1 Q02, Q02H, Q06H, Q12H, Q25H Misubish1 Q07, Q02H, Q06H, V12H, V1 | Direct LOGIC K-sequence | Yes | |
| Allen-Bradley DF1 Full & Half Duplex Allen-Bradley PLC5 DF1 Allen-Bradley PLC5 DF1 Allen-Bradley DF1 Full & Half Duplex - Tag Based (ControlLogix™ and Compact Logix™) Modbus RTU GE SNPX (90/30, 90/70), Micro 90, VersaMax Micro) Omron Host Link C200 Adapter C500 Omron FINS (C11, CS1) Wes Mitsubishi CQ, Q02H, Q06H, Q12H, Q25H Mitsubishi GQ, Q02H, Q06H, Q12H, Q25H Mitsubishi G, QnA Serial Siemens PP1 (S7-200 CPU) Yes Entivity Modbus TCV Yes Allen-Bradley EtherNet/IP Server - Generic I/O MPS Server - Generic I/O MPS Server - Generic I/O MPS Allen-Bradley EtherNet/IP Client - Tag Based (ControlLogix™ Allen-Bradley EtherNet/IP Client - Tag Based (ControlLogix™ Allen-Bradley EtherNet/IPC Client - MicroLogix 1100 & SLC 5/05 via native Ethernet port, MicroLogix Tomon FINS Ves Mitsubishi O, Qn A Ethernet Yes Mitsubishi Q, Qn S via AB ENI Adapter Omron FINS Wes Mitsubishi O, Qn A Ethernet Yes Mitsubishi O, Qn A Ethernet Yes Mitsubishi O, Qn A Ethernet Yes Mitsubishi O, Qn B Ethernet Yes | Direct NET | Yes | |
| Allen-Bradley PLC5 DF1 Allen-Bradley DH-485 Allen-Bradley DH-1 Full & Half Duplex - Tag Based (ControlLogix™ and CompactLogix™) Modbus RTU GE SNPX (90/30, 90/70), Micro 90, VersaMax Micro) Omron FINS (51, CS1) Yes Mitsubishi CO2, 002H, 006H, 012H, 025H Mitsubishi QO2, 002H, 006H, 012H, 025H Mitsubishi QO3, 01A Serial Yes Allen-Bradley EtherNet/IPP Server - Generic I/O Messaging* Allen-Bradley EtherNet/IPC Client - MicroLogix 1100 & SLC 5/05 via native Ethernet port, MicroLogix 100, 1100, 1200, 1400, 1500 & SLC 5-03, 04, 05 via AB ENI Adapter Omron FINS Mitsubishi Q, QnA Ethernet Yes Mitsubishi Qi, QnA Ethernet Yes Mitsubishi Qi, QnA Ethernet Yes Mitsubishi Qi, QnA Ethernet Yes | | Yes | |
| Allen-Bradley DH-485 Allen-Bradley DF1 Full & Half Duplex - Tag Based (ControlLogix™ and CompactLogix™) Modbus RTU Yes Entivity Modbus RTU Yes GE SNPX (90/30, 90/70), Micro 90, VersaMax Micro) Omron Host Link C200 Adapter C500 Omron FINS (CJ1, CS1) Wes Mitsubishi PX Wes Mitsubishi Q2, Q02H, Q06H, Q12H, Q25H Mitsubishi Q2, Q02H, Q06H, Q12H, Q25H Mitsubishi Q2, Q02H, Q06H, Q12H, Yes Mitsubishi Q7-200 CPU) **Ehemet** Productivity3000 Yes **Direct LOGIC Ethernet** Modbus TCP/IP Allen-Bradley EtherNet/IP™ Server - Generic I/0 Messaging* Allen-Bradley EtherNet/IP™ Client - Tag Based (ControlLogix™ and CompactLogix™) Allen-Bradley EtherNet/IP Client - MicroLogix 100, 8 SLC 5/05 via rative Ethernet port, MicroLogix 100, 1100, 1200, 1400, 1500 & SLC 5-03, 04, 05 via AB ENI Adapter Omron FINS Mitsubishi Q, Qn A Ethernet Yes Mitsubishi D1, Qn A Ethernet Yes Mitsubishi Q, Qn A Ethernet Yes **Mitsubishi Q, Qn A Ethernet **Yes **Mitsubishi Q, Qn A Ethernet **Yes **Mitsubishi Q, Qn A Ethernet Yes **Mitsubishi Q, Qn A Ethernet **Yes **Mitsubishi Q, Qn A Ethernet Yes **Mitsubishi Q, Qn A Ethernet Yes **Mitsubishi Q, Qn A Ethernet Yes | Allen-Bradley DF1 Full & Half Duplex | Yes | |
| Allen-Bradley DF1 Full & Half Duplex - Tag Based (ControlLogix™ and Compact Logix™) Modbus RTU - Yes Entivity Modbus RTU - Yes GE SNPX (90/30, 90/70), Micro 90, VersaMax Micro) Omron Host Link - C200 Adapter C500 - Omron FINS (CJ1, CS1) - Wiss Mitsubishi FX - Mitsubishi Q2, Q02H, Q06H, Q12H, - Q25H - Mitsubishi Q3, Q02H, Q06H, Q12H, - Q25H - Mitsubishi Q5, Q02H, Q06H, Q12H, - Q25H - Wiss Siemens PP1 (S7-200 CPU) - Yes - Wiss Siemens PP1 (S7-200 CPU) - Yes - Wiss - W | Allen-Bradley PLC5 DF1 | Yes | |
| - Tag Based (ControlLogix™ and o' Yes CompactLogix™) Modbus RTU Yes Entivity Modbus RTU Yes GE SNEY (90/30, 90/70), Micro 90, VersaMax Micro) Yes Micro 90, VersaMax Micro) Yes Misubishi FX Yes Mitsubishi FX Yes Mitsubishi FX Yes Mitsubishi OQ2, OQ2H, OQ6H, O12H, Q25H Mitsubishi QQ, OQ2H, OQ6H, O12H, Yes Siemens PPI (57-200 CPU) Yes Entivity Modbus TCP/IP Yes Allen-Bradley EtherNet/IP Client - Generic I/O Messaging Yes Allen-Bradley EtherNet/IP Client - MicroLogix 1100 & SLC 5/05 via native Ethernet port, MicroLogix 1100 & SLC 5/05 via native Ethernet port, MicroLogix 100, 1100, 1200, 1400, 1500 & SLC 5-03, 04, 05 via AB ENI Adapter Omron FINS Yes Mitsubishi Q, On A Ethernet Yes | Allen-Bradley DH-485 | Yes | |
| Entivity Modbus RTU Yes GE SNPX (90/30, 90/70), Micro 90, VersaMax Micro) Omron Host Link C200 Adapter C500 Omron FNS (U,1 CS1) Omron FNS (U,1 CS1) Mitsubishi TX Ves Mitsubishi TX Ves Mitsubishi TX Ves Mitsubishi QQ, Q02H, Q06H, Q12H, Q25H Mitsubishi QQ, Q02H, Q06H, Q12H, Yes Siemens PPI (S7-200 CPU) Yes Ethernet Productivity3000 Yes Diract LOGIC Ethernet Wes Modbus TCP/IP Yes Allen-Bradley EtherNet/IP™ Server - Generic I/0 Messaging* Mitsubishi Q, QnA Breinet Wes Allen-Bradley EtherNet/IP Client - MicroLogix 1100 & SLC 5/05 via nattive Ethernet port, MicroLogix 100, 1100, 1200, 1400, 1500 & SLC 5-03, Q4, Q5 via AB ENI Adapter Omron FINS Wes Mitsubishi DI, Q, An Ethernet Yes Mitsubishi DI, Q, An Ethernet Yes Mitsubishi Q, Q, A Ethernet Yes Mitsubishi Q, Qn Ethernet Yes | - Tag Based (ControlLogix™ and | Yes | |
| GE SNPX (90/30, 90/70), Micro 90, VersaMax Micro) Omron Host Link C200 Adapter C500 Omron Fins (CJ1, CS1) Wes Mitsubishi PX Witsubishi Q2, Q02H, Q06H, Q12H, Q25H Mitsubishi Q, QnA Serial Yes Siemens PPI (S7-200 CPU) Wes Elinemat Productivily3000 Yes Oirect LOGIC Ethernet Wes Mitsubishi Q000 Yes Siemens PPI (S7-200 CPU) Yes Elinemat Froductivily3000 Yes Oirect LOGIC Ethernet Wes Modbus TCP/IP Yes Allen-Bradley EtherNet/IP™ Server - Generic I/0 Messaging* Yes Allen-Bradley EtherNet/IPP Client - Tag Based (ControlLogix™ and CompactLogix™) Allen-Bradley EtherNet/IPP Client - Tag Based (ControlLogix™ And CompactLogix™) Oirect LOGIX + Togota State Yes Mitsubishi Q, Q, U, Sv via AB ENI Adapter Omron FINS Yes Mitsubishi Q, Q, A Ethernet Yes Mitsubishi Q, Q, A Ethernet Yes | | Yes | |
| Micro 90, VersaMax Micro) Micro 90, VersaMax Micro) Micro 90, VersaMax Micro) Micro 90, VersaMax Micro) Missubishi COJ1, CS1) Missubishi QO2, QO2H, Q06H, Q12H, Q25H Missubishi QO2, QO2H, Q06H, Q12H, Q25H Missubishi QO3, QO2H, Q06H, Q12H, Q25H Missubishi QO3, QO2H, Q06H, Q12H, Q25H Missubishi QO3, QO3H, Q06H, Q12H, Q25H Missubishi QO3, Q03H, Q05H, Q15H Missubishi Q0, Q03H, Q05H, Q15H Missubishi Q0, Q03H, Q05H, Q0 | | Yes | |
| C200 Adapter C500 C200 Adapter C500 C200 Adapter C500 C201 Adapter | Micro 90, VersaMax Micro) | Yes | |
| Mitsubishi FX Mitsubishi O2, 002H, 006H, 012H, Q25H Mitsubishi Q2, 002H, 006H, 012H, Q25H Mitsubishi Q, QnA Serial Siemens PPI (S7-200 CPU) Yes Ethernet Productivity3000 Yes Direct LOGIC Ethernet Yes Modbus TCP/IP Entivity Modbus TCP/IP Server - Generic I/O Messaging* Allen-Bradley EtherNet/IP Client - Tag Based (Controll.ogix ™ 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 Omron FINS Wes Mitsubishi Q, QnA Ethernet Yes Mitsubishi Q, QnA Ethernet Yes Mitsubishi Q, QnA Ethernet Yes | C200 Adapter C500 | Yes | |
| Mitsubishi QO2, QO2H, QO6H, Q12H, Q25H Q25H Mitsubishi Q, QnA Serial Yes Slemens PPI (S7-200 CPU) Yes Ethermet Productivily3000 Yes Direct LOGIC Ethernet Yes Modbus TCP/IP Yes Allen-Bradley EtherNet/IP™ Server - Generic I/O Messaging* Allen-Bradley EtherNet/IP Client - Tag Based (Control Logix™ and Compact Logix™ latine Bradley EtherNet/IP Client - MicroLogix 100, 1100, 1100, 1200, 1400, 1500 & SLC 5-03, Q4, Q5 via AB ENI Adapter Omron FINS Yes Mitsubishi Q, QnA Ethernet Yes Yes Mitsubishi Q, QnA Ethernet Yes Yes Mitsubishi Q, QnA Ethernet Yes Yes Mitsubishi Q, QnA Ethernet Yes Yes Mitsubishi Q, QnA Ethernet Yes | | Yes | |
| 025H Yes Milisubishi 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 Entivity 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 (Controll.ogix™ Allen-Bradley EtherNet/IP Client - Microt.ogix 1100 & SLC 5/05 via native Ethernet port. Microt.ogix 1000, 1100, 1200, 1400, 1500 & SLC 5-03, 04, 05 via AB ENI Adapter Omron FINS Yes Milsubishi Q, QnA Ethernet Yes | | Yes | |
| Siemens PPI (S7-200 CPU) **Ethernet** **Productivity3000 **Jess **Direct LOGIC Ethernet** **Modbus TCP/IP** **Allen-Bradley EtherNet/IP™* **Server - Generic I/0 Messaging** **Allen-Bradley EtherNet/IP™ **Client - Tag Based (ControlLogix™ and CompactLogix™ and CompactLogix ™ IAllen-Bradley EtherNet/IP Client - MicroLogix 1100 & SLC 5/05 via rarative Ethernet port, MicroLogix 100, 1100, 1200, 1400, 1500 & SLC 5-03, 04, 05 via AB ENI Adapter **Omron FINS** **Yes **Milsubishi Q, QnA Ethernet** **Yes **Milsubishi Q, QnA Ethernet** **Yes **Milsubishi Q, QnA Ethernet** **Yes | | Yes | |
| Ethernet Productivity3000 Yes Direct LOGIC Ethernet Modbus TCP/IP Yes Entivity Modbus TCP/IP Yes Entivity Modbus TCP/IP Yes Entivity Modbus TCP/IP Yes Allen-Bradley EtherNet/IP Yes Allen-Bradley EtherNet/IP Allen-Bradley EtherNet/IP Client - Tag Based (ControlLogix™ Allen-Bradley EtherNet/IP Client- MicroLogix 1100 & SLC 5/05 via and CompactLogix™) Allen-Bradley EtherNet/IP Client - MicroLogix 1100 & SLC 5/05 via 1000, 1100, 1200, 1400, 1500 & SLC 5-03, 04, 05 via AB ENI Adapter Ommon FINS Yes Mitsubishi Q, QnA Ethernet Yes | Mitsubishi Q, QnA Serial | Yes | |
| Productivity3000 Yes **Direct** CDGIC Ethernet Yes **Modbus TCP/IP Yes **Entivity Modbus TCP/IP Yes **Entivity Modbus TCP/IP Yes **Allen-Bradley EtherNet/IP™ **Allen-Bradley EtherNet/IP™ **Allen-Bradley EtherNet/IP™ **Client - Tag Based (Controll.ogix ™ **Allen-Bradley EtherNet/IP Client - Tag Based (Controll.ogix ™) **Allen-Bradley EtherNet/IP Client - Microt.ogix **Tloo. & SLC 5/05 via native Ethernet port, Microt.ogix 1000, 1100, 1200, 1400, 1500 & SLC **5-03, 04, 05 via AB ENI Adapter Omron FINS Yes **Mitsubishi Q, QnA Ethernet Yes **Mitsubishi Q, QnA Ethernet Yes **Mitsubishi Q, QnA Ethernet Yes ***Mitsubishi Q, QnA Ethernet Yes ***Mitsubishi Q, QnA Ethernet Yes ****Proceedings** ***Yes ***Mitsubishi Q, QnA Ethernet Yes ****** ****** ***** ***** ***** **** | Siemens PPI (S7-200 CPU) | Yes | |
| Direct LOGIC Ethernet Yes Modbus TCP/IP Yes Allen-Bradley EtherNet/IP™ Yes Allen-Bradley EtherNet/IP™ Yes Server - Generic I/O Messaging* Yes Allen-Bradley EtherNet/IP Yes Client - Tag Based (ControlLogix™ and CompactLogix™) Yes Allen-Bradley EtherNet/IP Client - MicroLogix 1100 & SLC 5/05 via rative Ethernet port, MicroLogix 100, 1100, 1200, 1400, 1500 & SLC 5-03, 04, 05 via AB ENI Adapter Yes Milsubishi Q, QnA Ethernet Yes Milsubishi Q, QnA Ethernet Yes | Ethernet | | |
| Modbus TCP/IP Yes Entivity Modbus TCP/IP Yes Allen-Bradley EtherNet/IP™ Server - Generic I/O Messaging* Allen-Bradley EtherNet/IP Client - Tag Based (ControlLogix™ and CompactLogix™) Allen-Bradley EtherNet/IP Client MicroLogix 1100 & SC 5/05 via 1000, 1100, 1200, 1400, 1500 & SLC 5-03, 04, 05 via AB ENI Adapter Ommon FINS Yes Mitsubishi Q, QnA Ethernet Yes | Productivity3000 | Yes | |
| Entivity Modbus TCP/IP Yes Allen-Bradley EtherNet/IP™ Yes Server - Generic I/O Messaging* Yes Allen-Bradley EtherNet/IP Client - Tag Based (Controll.ogix™ and Compactl.ogix™) Allen-Bradley EtherNet/IP Client - Microt.ogix 1100 & SLC 5/05 via anative Ethernet port, Microt.ogix 1000, 1100, 1200, 1400, 1500 & SLC 5-03, 04, 05 via AB ENI Adapter Omron FINS Yes Mitsubishi Q, QnA Ethernet Yes | Direct LOGIC Ethernet | Yes | |
| Allen-Bradley EtherNet/IP™ Server - Generic I/O Messaging* Allen-Bradley EtherNet/IP Client - Tag Based (ControlLogix™ and CompactLogix™ Hilen-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 Omron FINS Ves Mitsubishi Q, QnA Ethernet Yes | Modbus TCP/IP | Yes | |
| Server - Genéric I/O Messaging* Allen-Bradley EtherNet/IP Client - Tag Based (ControlLogix™ and CompactLogix™) Allen-Bradley EtherNet/IP Client - MicroLogix 1100 & S.LC 5/05 via native Ethernet port; MicroLogix 1000, 1100, 1200, 1400, 1500 & S.LC 5-03, 04, 05 via AB ENI Adapter Omron FINS Yes Mitsubishi Q, QnA Ethernet Yes | Entivity Modbus TCP/IP | Yes | |
| Client - Tag Based (Control Logix™ Ares and Compact Logix™) Allen-Bradley EtherNet/IP Client - Microt Logix 1100 & SLC 5/05 via native Ethernet port, Microt Logix 1000, 1100, 1200, 1400, 1500 & SLC 5-03, 04, 05 via AB ENI Adapter Omron FINS Yes Mitsubishi Q, QnA Ethernet Yes | Server - Generic I/O Messaging* | Yes | |
| MicroLogix 1100 & SLC 5/05 via native Ethernet port, MicroLogix 1000, 1100, 1200, 1400, 1500 & SLC 5-03, 04, 05 via AB ENI Adapter Omron FINS Yes Mitsubishi Q, QnA Ethernet Yes | Client - Tag Based (ControlLogix™ and CompactLogix™) | Yes | |
| Mitsubishi Q, QnA Ethernet Yes | MicroLogix 1100 & SLC 5/05 via native Ethernet port; MicroLogix 1000, 1100, 1200, 1400, 1500 & SLC | Yes | |
| | Omron FINS | Yes | |
| Siemens (S7-200 CPU, S7-300 CPU) Yes | Mitsubishi Q, QnA Ethernet | Yes | |
| | Siemens (S7-200 CPU, S7-300 CPU) | Yes | |

Ports & Memory Expansion

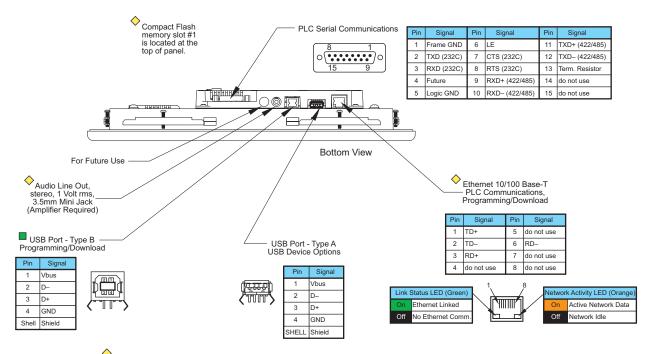




Mounting Cutout



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
- Direct LOGIC 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.

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 **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)

iomation Directi

Company Information

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Programmable Controllers

Field I/O

Software

ner HMI

Drives
Soft
Starters

Motors & Gearbox

Steppers/ Servos

Motor Controls

Proximity Sensors

Photo Sensors Limit

Switches

Current Sensors

Pressure Sensors

Temperature Sensors

Pushbuttons/ Lights

Process

Relays/ Timers

Comm.

Terminal Blocks & Wiring

Power

Circuit Protection

Enclosures

Tools

Pneumatics

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Part # Index

C-more Communication Protocols & Cables

| | C | ompatibility Table | | |
|-----------------------|--|--|---|--|
| PLC Family | Model | | Protocols | |
| 120 7 4111111 | | 1200/1400/1500, | DH485/AIC/AIC+ | |
| | MicroLogix 1000/1100/1200/1400/1500, SLC 5-/01/02/03, PLC5 | | DH463/AIC/AIC+ | |
| | MicroLogix 1000, 1100 SLC 5-/03/04/05 | , 1200 and 1500 | DF1 Half Duplex; DF1 Full Duplex | |
| | ControlLogix™, Compa | ctl oniv™ ElevLoniv™ | DE I Hall Duplex, DE I Full Duplex | |
| | PLC-5 | oteogix , i toxeogix | DF1 Full Duplex | |
| Allen-Bradley | | Logix, FlexLogix - Tag Based | DF1 Half Duplex; DF1 Full Duplex | |
| , mon Diauto, | ControlLogix, Compactl Generic I/O Messaging | Logix, FlexLogix - | EtherNet/IP Server | |
| | | Logix, FlexLogix - Tag Based | Eurorito y II Corvoi | |
| | | | _ | |
| | MicroLogix 1100 & SLO both via native Ethernet | port | EtherNet/IP Client | |
| | MicroLogix 1000, 1100 SLC 5-03/04/05, all via | , 1200, 1400,1500 & | | |
| Modbus TCP/IP | Modbus TCP/IP device | | Modbus TCP/IP | |
| GE | 90/30, 90/70, Micro 90 | - | SNPX | |
| UL | FX Series | , VELSAIVIAN IVIICIO | FX Direct | |
| | Q02, Q02H, Q06H, Q12 | PH 025H | Q CPU | |
| Mitsubishi | Q, QnA Serial | 11, 42011 | QnA Serial | |
| | Q, Qna Ethernet | | QnA Ethernet | |
| Omron | C200 Adapter, C500 | | Host Link | |
| Omion | CJ1/CS1 Serial, CJ1/C | | FINS | |
| Modicon | 984 CPU, Quantum 113 Series 110 CPU: 311-v | 3 CPU, AEG Modicon Micro x, 411-xx, 512-xx, 612-xx | Modbus RTU | |
| 0. | S7-200 CPU. RS-485 S | | PPI | |
| Siemens | S7-200 CPU, S7-300 C | | Ethernet ISO over TCP | |
| Due des etimites 2000 | Productivity3000 Serial | (P3-550) | AutomationDirect P3000 Serial | |
| Productivity3000 | Productivity3000 Etherr | net (P3-550) | AutomationDirect P3000 Ethernet | |
| CLICK | all | , | AutomationDirect Modbus (CLICK) | |
| | | | K-Sequence | |
| | DL05/DL06 | all | Direct NET | |
| | DL03/DL00 | | Modbus (Koyo addressing) | |
| | | H0-ECOM/H0-ECOM100 | Direct LOGIC Ethernet | |
| | DL105 | all | K-Sequence | |
| | | D2-230 | K-Sequence | |
| | | D2-240 | K-Sequence DirectNET | |
| | | | K-Sequence | |
| | DL205 | D2-250/D2-250-1/D2-260 D2-240/D2-250-1/D2-260 | Direct NET | |
| | B2200 | | Modbus (Koyo addressing) | |
| | | | Direct NET | |
| | | Using DCM | Modbus (Koyo addressing) | |
| | | H2-ECOM/H2-ECOM100 | Direct LOGIC Ethernet | |
| | DL305 | D3-330/330P (Requires the use of a Data Communications Unit) | Direct NET | |
| | | D3-340 D3-350 | Direct NET | |
| <i>Direct</i> LOGIC | | | K-Sequence | |
| | | | Direct NET | |
| | | | Modbus (Koyo addressing) | |
| | | D3-350 DCM | Direct NET | |
| | | | Modbus (Koyo addressing) K-Sequence | |
| | | D4-430 | Direct NET | |
| | | D.4.440 | K-Sequence | |
| | DL405 | D4-440 | Direct NET | |
| | | | K-Sequence | |
| | | D4-450 | Direct NET | |
| | | | Modbus (Koyo addressing) | |
| | | All with DCM | Direct NET | |
| | | | Modbus (Koyo addressing) | |
| | H4-ECOM/H4-ECOM100 | | Direct LOGIC Ethernet Think & Do Modbus RTU | |
| | H2-WinPLC (Think & Do) Live V5.2 or later and Studio any version | | (serial port) | |
| | | Oo) Live V5.5.1 or later and | Think & Do Modbus TCP/IP | |
| | H2-WinPLC (Think & Do) Live V5.5.1 or later and Studio V7.2.1 or later | | (Ethernet port) | |

| Cable Description | Cable Part Number | Price |
|---|----------------------|-------|
| Productivity3000 AutomationDirect CLICK, Direct LOGIC PLC RJ-12 port, DL05, DL06, DL105, DL205, D3-350, D4-450 & H2-WinPLC (RS-232C) | EA-2CBL | <> |
| Direct LOGIC (VGA Style) 15-pin port, DL06, D2-250 (250-1), D2-260 (RS-232C) | EA-2CBL-1 | <> |
| Direct LOGIC PLC RJ-11 port, D3-340 (RS-232C) | EA-3CBL | <> |
| Direct LOGIC DL405 PLC 15-pin D-sub port, DL405 (RS-232C) | EA-4CBL-1 | <> |
| Direct LOGIC PLC 25-pin D-sub port, DL405, D3-350, DL305 DCU and all 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

USB Port – Type B ogramming/Download

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 rec-
- 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

PC

Stride™ Ethernet Switch

10/100 Base-T

Ethernet

PC

• USB port or Ethernet 10/100 Mbps port for project transfer from software to touch panel (Ethernet port not available on -R models)

USB Connectivity

Ethernet Connectivity via a Hub or Switch

Ethernet CAT5 Cable - Straight-thru

Ethernet Direct Connection

USB Port

 Operating System - Windows* Vista, Windows* XP Home / Professional Edition or Windows* 2000 with Service Pack 4.

USB-CBL-AB15

USB Programming Cable

Company Information

Systems Overview Programmable

Controllers

Field I/O

Software

Drives

Soft

Starters

Motors &

Gearbox

Steppers/ Servos

Controls

Proximity

Photo

Limit

Switches

Encoders

Sensors

Pressure Sensors

Temperature

Pushbuttons/

Lights

Process

Relays

Timers Comm.

Termina Blocks & Wiring

Power

Circuit Protection

Enclosures

Pneumatics

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Tools

Sensors



Other lengths available see USB-CBL-AB3, USB-CBL-AB6,

Ethernet Switch



<--->



<--->

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 No. USB-CBL-AB15

USB-CBL-AB10 on page 9-27

Stride™



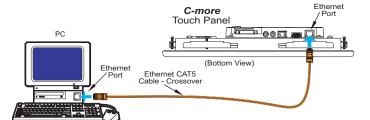
Part No. SE-SW5U

Ethernet Configuration Kit

Part No. RT-CNFGKIT

Operator Interface

e10-43



www.automationdirect.com/C-moVICPAS

C-more Touch Panel

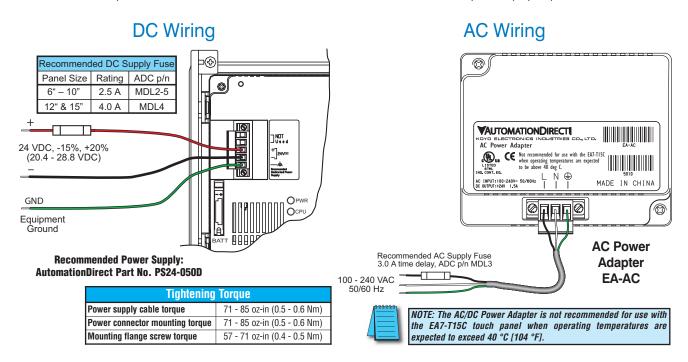
(Bottom View)

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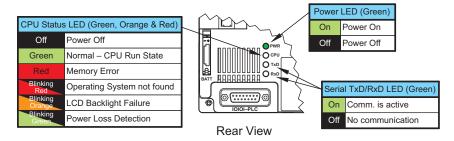
C-more Power Connection Wiring

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, 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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VICPAS

Accessories

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

| Part Number | Description | Price |
|-----------------|--|-------|
| r airt Mulliber | | THEE |
| 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. | <> |
| 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 C-more touch panel into enclosures with legacy wide-bezel EZTouch cutouts. Converts a 8.932 inch x 6.223 inch cutout to 7.522 inch x 5.625 inch cutout. | <> |
| EA-ADPTR-4 | D-SUB 15-pin 90 degree PLC serial communication port adapter (allows a PLC communication cable to be plugged in at a 90 degree angle to reduce panel depth requirements) | <> |
| EA-COMCON-3 | D-SUB 15-pin to 6-terminal PLC serial communication port adapter to allow wire terminal connections for RS-422/485 PLC communication cable. | <> |
| EA-6-COV2 | Non Glare 6 Inch Screen Cover, protective overlay used to protect the touch screen while helping to reduce the glare from external light sources. (pk of 3) | <> |
| EA-8-COV2 | Non Glare 8 Inch Screen Cover, protective overlay used to protect the touch screen while helping to reduce the glare from external light sources. (pk of 3) | <> |
| EA-10-COV2 | Non Glare 10-Inch Screen Cover, protective overlay used to protect the touch screen while helping to reduce the glare from external light sources. (pk of 3) | <> |
| EA-12-COV2 | Non Glare 12-Inch Screen Cover, protective overlay used to protect the touch screen while helping to reduce the glare from external light sources. (pk of 3) | <> |
| EA-15-COV2 | Non Glare 15-Inch Screen Cover, protective overlay used to protect the touch screen while helping to reduce the glare from external light sources. (pk of 3) | <> |
| SDCZ4-2048-A10 | USB Pen Drive, 2GB, SanDisk Cruzer micro Pen Drive. Compatible with Windows 98SE, ME, 2000, XP and Mac OS 9.1.x+, OS X 10.1.2+ Certified Windows XP and Mac OS X. Recommended for use with the <i>C-more</i> Operator Touch Panels. | <> |

Accessories at a glance:

Company Information

Systems Overview

Software

Soft Starters

Motors &

Gearbox

Steppers/ Servos

Proximity

Photo Sensors

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Switches

Encoders

Sensors Pressure Sensors Temperature

Pushbuttons/

Lights

Process

Relays/ Timers

Comm.

Wiring

Circuit Protection

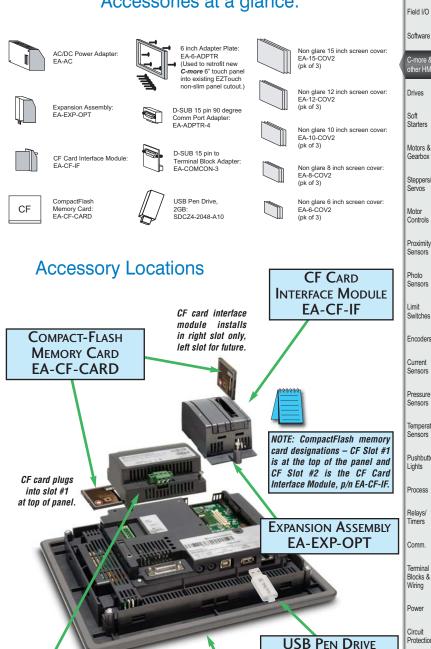
Enclosures Tools

Pneumatics

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Programmable Controllers





AC/DC POWER ADAPTER EA-AC

> NOTE: Refer to the individual product data sheets that are included with the accessories for additional information.

C-more TOUCH PANEL

SDCZ4-2048-A10

AC/DC Power Adapter

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

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

Part No. EA-AC **Dimensions** Screw `@) 3.001 [76.2] **Overall Panel Depth** DC Power w/ EA-AC Installed FRONT VIEW Screw AC Power Connector Units: inches [mm] 000 NOTE: Power Fault features help protect EA7-S6M-R = 2.921 [74.2] EA7-T6CL-R = 2.921 [74.2] EA7-S6M = 2.921 [74.2] EA7-T6CL = 9.921 [74.2] EA7-T6CL = 9.31 [76.2] EA7-T10C = 3.105 [78.9] EA7-T15C = 3.075 [78.8] EA7-T15C = 3.075 [78.1] data being logged to CompactFlash during power failures. The C-more touch panel 4 must have firmware version 1.21 Build 6.18E or higher for proper operation. BOTTOM VIEW NOTE: The AC/DC Power Adapter is not recommended for use with the EA7-T15C touch panel Units: inches[mm] when operating temperatures are expected to exceed 40 °C [104 °F].

| AC/DC Power Adapter Specifications | | | |
|--|---|--|--|
| Part Number | EA-AC | Static Electricity Discharge Resistance | Compliant with IEC61000-4-2, Contact: 4 kV, Air: 8 kV |
| Input Voltage & Frequency | 100-240 VAC; 50/60 Hertz | Agency Approvals | UL508, cUL, CE, EMC EN61132-2 |
| Voltage Range | 85-264 VAC w/ Under Voltage and Over Voltage Shutdown | Environment | 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 | | |

Expansion Assembly

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

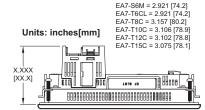
The optional Expansion Assembly can be installed on the rear of all but the 6-inch base models. This attachable assembly currently allows installation of an additional CompactFlash card with the use of the CF Card Interface Module. More options will be available in the future.

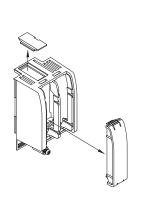
Dimensions

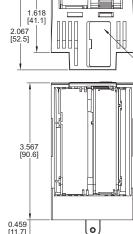
Part No. EA-EXP-OPT

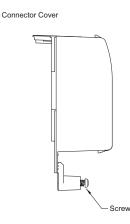


Overall Panel Depth w/ EA-EXP-OPT Installed









Units: inches [mm]

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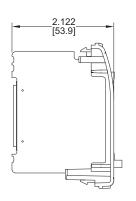
CF Card Interface Module

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.

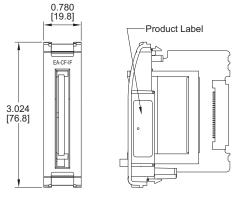
www.automationdirect.com/C-moVICPAS

Part No. EA-CF-IF





Dimensions



Units: inches [mm]

512 MB CompactFlash Memory Card

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

Part No. EA-CF-CARD



<--->

Specifications/Features:

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

USB Pen Drive

Part No. SDCZ4-2048-A10



<--->

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

Specifications/Features:

- Dimensions: 7.9 mm x 18.95 mm x 52.2 mm (H x W x L)
- · Stylish, metal casing
- 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

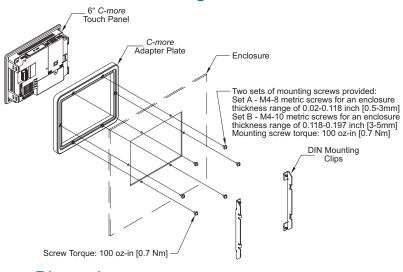
The adapter plate simplifies the retrofit of a new C-more 6" touch panel into an existing cabinet cutout for an EZTouch (units sold by AutomationDirect) 6" wide bezel touch panel, such as our part number EZ-S6C-K, EZ-S6C-F, EZ-S6M-R or EZ-S6M-F.

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.

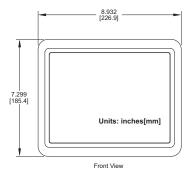
Part No. EA-6-ADPTR

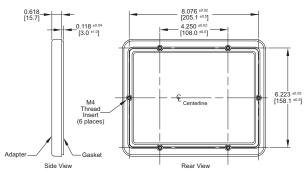


Mounting Details



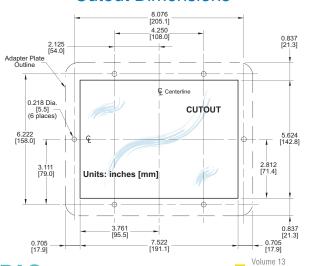
Dimensions





Cutout Dimensions





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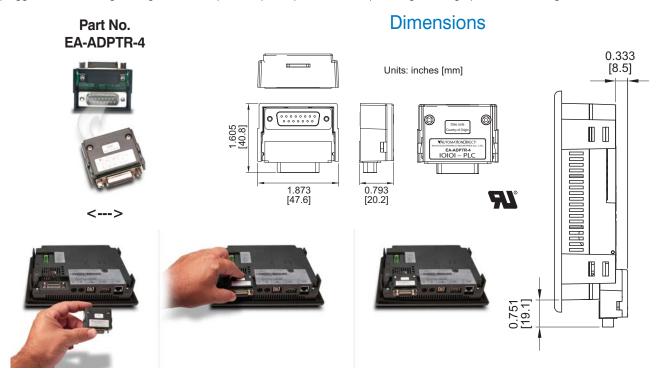
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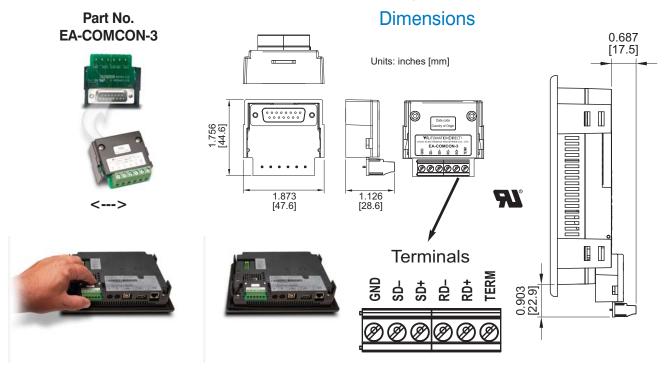
D-SUB 15-pin 90-degree Communication Port Adapter

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)

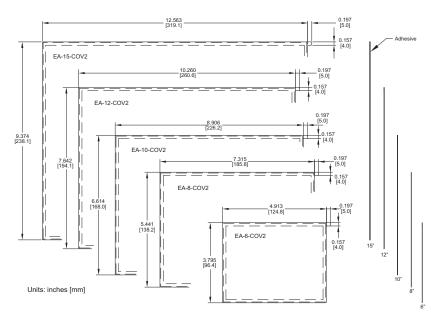
The non-glare screen covers are protective overlays used to protect the touch screen while helping to reduce the glare from external light sources.

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

Dimensions



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.

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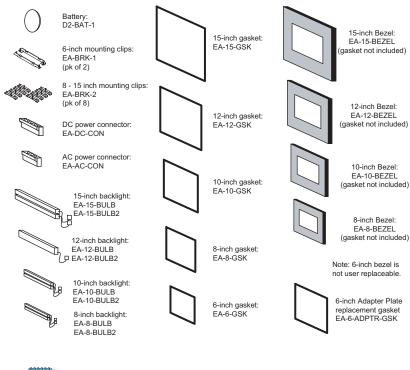
Part #

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:



| *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 | |
| LAT-TIOC | EA-10-BULB2 | EA7-T10C+10Z11B081 and newer | |
| EA7-T12C | EA-12-BULB | EA7-T12C+10Z29B019 and older | |
| | EA-12-BULB2 | EA7-T12C+10Z29B020 and newer | |
| EA7-T15C | EA-15-BULB | EA7-T15C+10Z22B120 and older | |
| | 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: DD:

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

WITH EACH REPLACEMENT PART FOR ADDITIONAL DETAILS.

Please refer to the individual data sheet inserts that are included



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.

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

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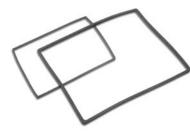
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Replacement NEMA 4/4X touch panel gaskets for C-more 6", 8", 10", 12" and 15" touch panels.

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.

