# The *C-more* Family

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

## Supported drivers

**AutomationDirect PLCs**

K-Sequence (*Direct*LOGIC PLCs)

DirectNET (*Direct*LOGIC PLCs)

Modbus (Productivity3000 PACs, *Direct*LOGIC PLCs. CLICK PLCs)

ECOM Ethernet (*Direct*LOGIC PLCs)

Think & Do (Modbus RTU and Modbus TCP/IP)

GS Drives

SOLO Temperature Controllers

**Modbus RTU**

**Modbus TCP/IP**

**Allen-Bradley**

A-B DF1

A-B DH485

A-B EtherNet/IP Client

A-B Ethernet/IP Server Generic IO Messaging

**GE SNPX**

**Omron**

Omron Host Link Adapter

Omron FINS (Serial and Ethernet)

**Mitsubishi**

FX Series CPU

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

Q Series (QO2,Q02H, Q06H, Q12H, Q25H CPU)

Q/QnA (Serial and Ethernet)

**Siemens**

S7-200 (Serial: PPI)

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

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

S7-400 (Ethernet: ISO over TCP/IP)

S7-1200 (Ethernet: ISO over TCP/IP)

Please refer to the Compatibility Table in the following technical section for detailed information about which protocols are available for use with specific controllers.

# Drivers for:

**ControlLogix®**
**CompactLogix®**
**FlexLogix**
**SLC® 5/05 Ethernet™**
**MicroLogix™ 1100/1400 Ethernet**

including:

A-B DF1
A-B DH485
A-B EtherNet/IP Client
A-B Ethernet/IP Server Generic IO Messaging

# Tag-based Messaging

*C-more* software supports direct insertion of ControlLogix, CompactLogix and FlexLogix tags from the PLC into *C-more* - no mapping or translations required.

Company Information

Systems Overview

Programmable Controllers

Field I/O

Software

C-more & other HMI

Drives

Soft Starters

Motors & Gearbox

Steppers/ Servos

Motor Controls

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

Safety

Appendix

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Part # Index

# Fast and Simple Driver Setup

We have many protocols for the Allen-Bradley PLC brand. The A-B Ethernet drivers allow the simple connectivity of multiple panels and/or multiple Allen-Bradley PLCs. We also have ControlLogix Ethernet/IP Tag Messaging support. This feature helps increase productivity by reducing the time often required to map your PLC tag database into another device. You can import the RSLogix 5000 L5K file directly, or with just a few clicks of the mouse you can directly enter your ControlLogix/ CompactLogix tags from the PLC into *C-more*. No mapping or translation required!

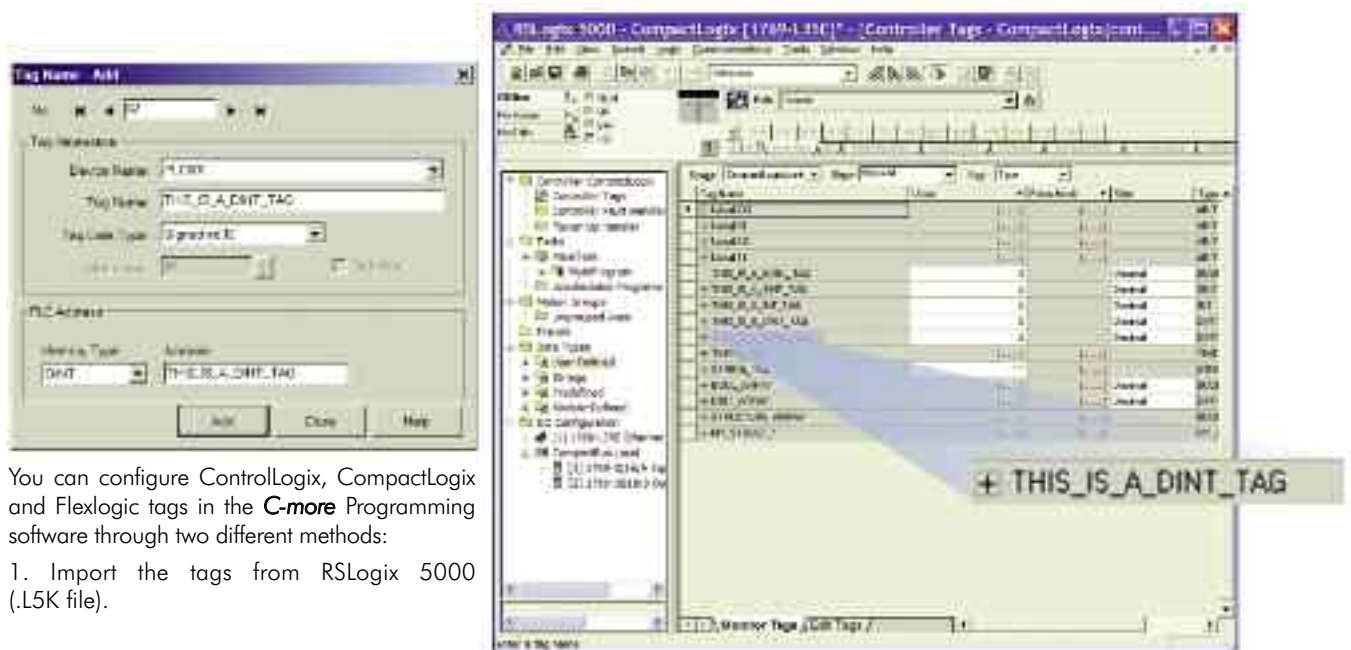| C-more Allen-Bradley Controller Support | DF1 Full Duplex | DF1 Half Duplex | DH485 | Generic EtherNet/ IP Server (IO Messaging) | EtherNet/IP Client | EtherNet/ IP Tag-Based Client | Tag-Based DF1 Full Duplex | Tag-Based DF1 Half Duplex |
|---|---|---|---|---|---|---|---|---|
| SLC 5/01, 5/02 | | | Yes | | | | | |
| SLC 5/03 | Yes | Yes | Yes | | Yesˣˣˣ | | | |
| SLC 5/04 | Yes | Yes | **Yes | | Yesˣˣˣ | | | |
| SLC 5/05 (Series A OS501 FRN5 & Higher) | Yes | Yes | **Yes | | Yes | | | |
| MicroLogix 1000, 1200, 1500 | Yes | Yes | **Yes | | Yesˣˣˣ | | | |
| MicroLogix 1100/1400 | Yes | Yes | **Yes | | Yes | | | |
| PLC5 | Yes | | | | | | | |
| ControlLogix | | | | Yes | | Yes | Yes | Yes |
| CompactLogix | | | | Yes | | Yes | Yes | Yes |
| FlexLogix | | | | Yes | | Yes | Yes | Yes |

*\* Ethernet available on full featured C-more panels only. -R units do not support Ethernet*

*\*\*AIC module from Allen-Bradley required for this connection*

*ˣˣˣNET - ENI module from Allen-Bradley required for this connection*

# ControlLogix EtherNet/IP Tag-based Messaging

Configure ControlLogix, CompactLogix and FlexLogic tags from the PLC into *C-more* (no mapping or translations required).



You can configure ControlLogix, CompactLogix and Flexlogic tags in the *C-more* Programming software through two different methods:
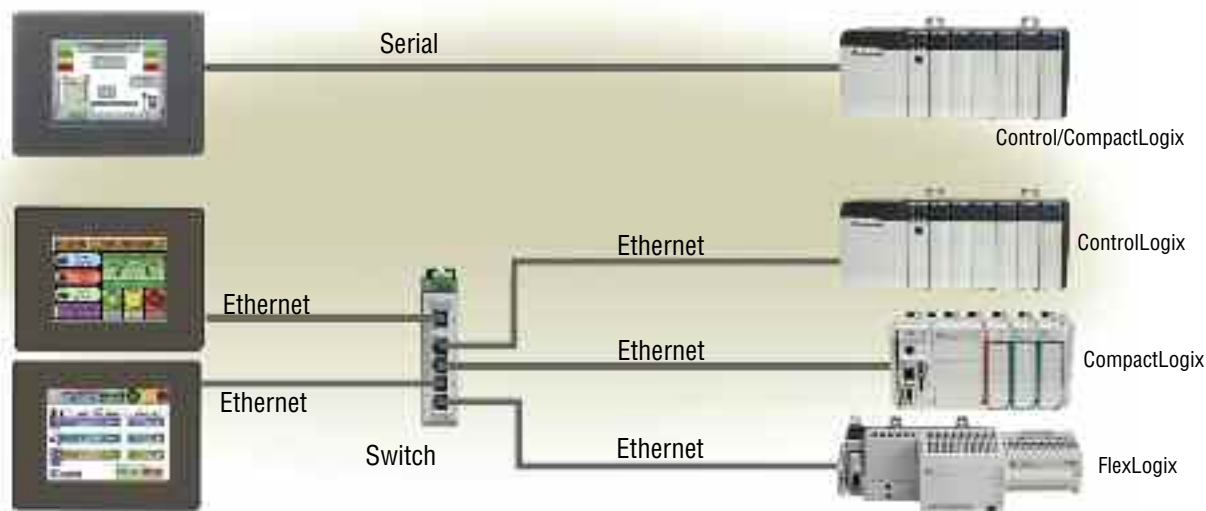
1. Import the tags from RSLogix 5000 (.L5K file).

2. Type in the PLC tag names directly. You can use the PLC tag names as your *C-more* tag names or choose a different *C-more* tag name when appropriate.
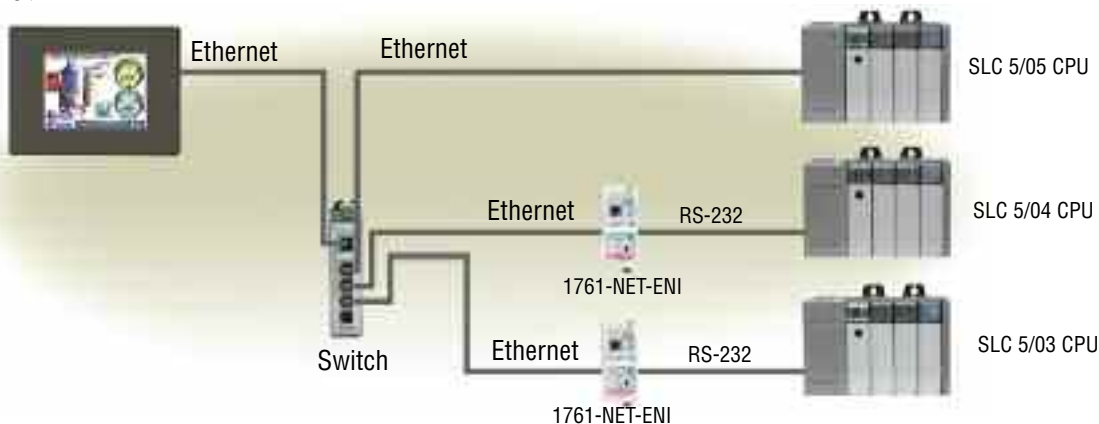
# ControlLogix, CompactLogix and FlexLogix

Connect to ControlLogix, CompactLogix and FlexLogix PLCs using either the native serial port or Ethernet port/module. Use direct tag-based messaging or directly enter the ControlLogix/CompactLogix PLC tags during *C-more* configuration (no mapping or translations required). You can connect multiple *C-more* panels to multiple PLC types on one network.



Serial — Control/CompactLogix
Ethernet — ControlLogix
Ethernet — CompactLogix
Ethernet — FlexLogix
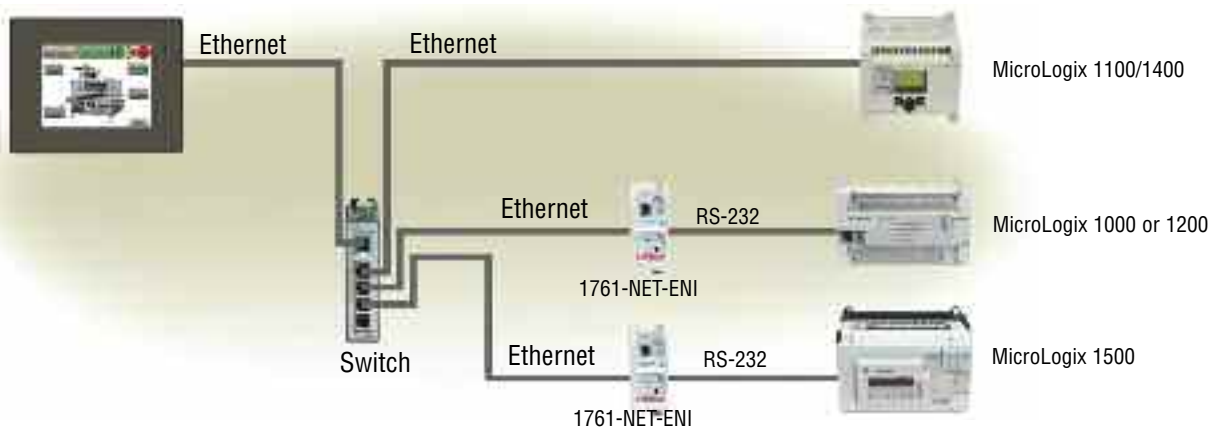Ethernet / Ethernet — Switch

## SLC 500 Ethernet and ENI Driver

Connect to the native Ethernet port on SLC 5/05, and to SLC 5/03 and SLC 5/04 through a 1761-NET-ENI DFI serial-to-Ethernet converter.



Ethernet / Ethernet — SLC 5/05 CPU
Ethernet — RS-232 — 1761-NET-ENI — SLC 5/04 CPU
Ethernet — RS-232 — 1761-NET-ENI — SLC 5/03 CPU
Switch

## MicroLogix 1100/1400 Ethernet and ENI Driver

Connect to the native Ethernet port on MicroLogix 1100/1400, and to MicroLogix 1000, 1200 and 1500 through a 1761-NET-ENI DFI serial-to-Ethernet converter.
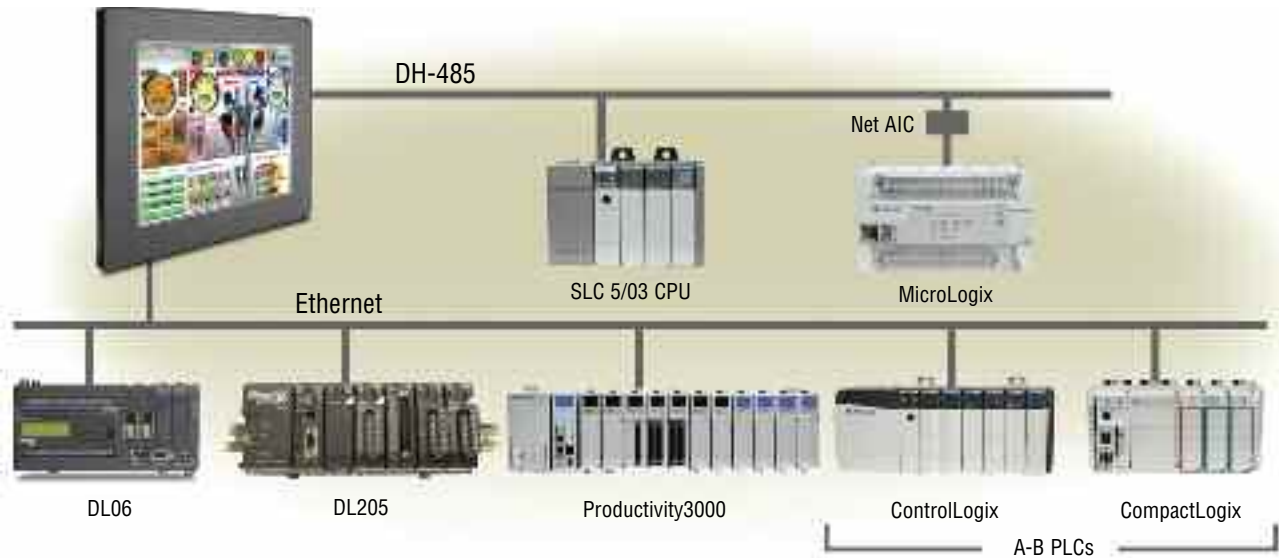


Ethernet / Ethernet — MicroLogix 1100/1400
Ethernet — RS-232 — 1761-NET-ENI — MicroLogix 1000 or 1200
Ethernet — RS-232 — 1761-NET-ENI — MicroLogix 1500
Switch

# Simultaneous Communications and Panel Pass-through
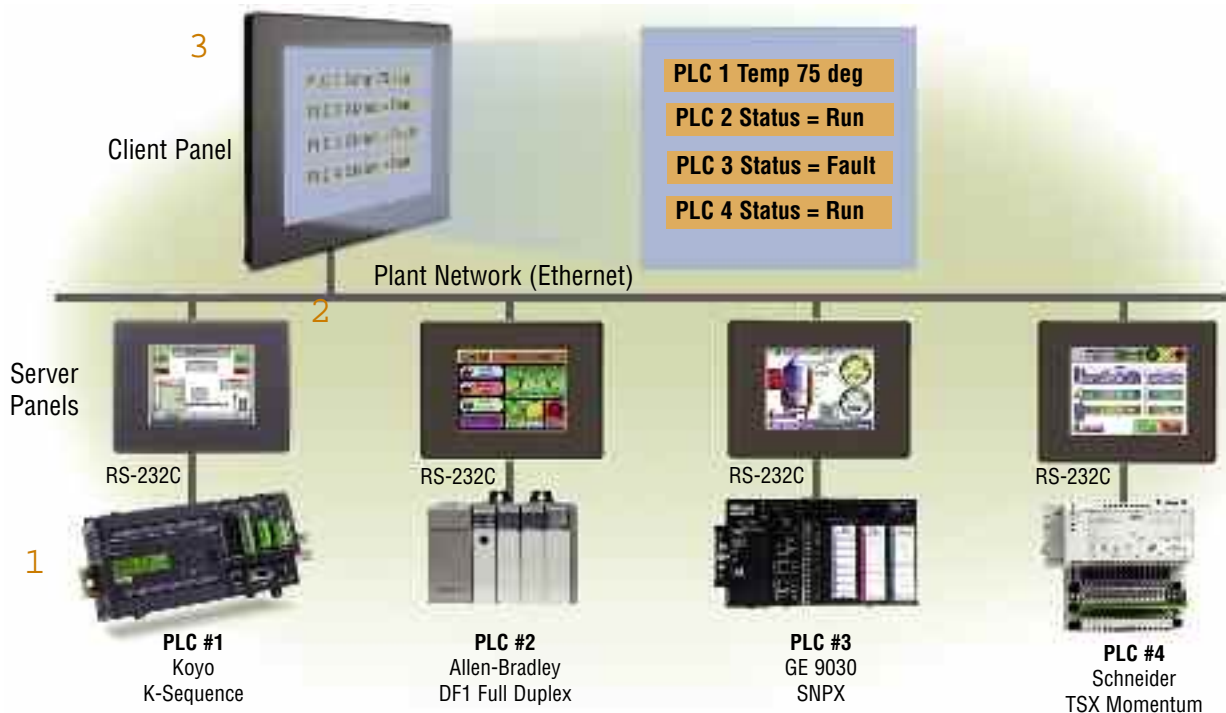
## Connect multiple brands of PLC/PACs

Connect multiple brands of PLC/PACs to *C-more* and communicate with them simultaneously. Use the Event Manager to periodically send tag values from one controller to another or when certain conditions are met.

*C-more* can even act as a "protocol bridge", passing values back and forth between PLC/PACs that use different protocols.

DH-485

Net AIC

SLC 5/03 CPU

MicroLogix

Ethernet

DL06

DL205

Productivity3000

ControlLogix

CompactLogix

A-B PLCs

## Panel pass-through

*C-more* panels can access data from supported controllers attached to other *C-more* panels via an Ethernet connection.

3

Client Panel

PLC 1 Temp 75 deg

PLC 2 Status = Run

PLC 3 Status = Fault

PLC 4 Status = Run

Plant Network (Ethernet)

2

Server Panels

RS-232C

RS-232C

RS-232C

RS-232C

1

**PLC #1**
Koyo
K-Sequence

**PLC #2**
Allen-Bradley
DF1 Full Duplex

**PLC #3**
GE 9030
SNPX

**PLC #4**
Schneider
TSX Momentum

1 Each PLC is operating a seperate application and is connected to a *C-more* panel through a Serial Connection.

2 Each *C-more* is configured as usual. When the client panel is configured, the server panels will pass through data from the PLCs to the client.

3 The *C-more* client panel is configured to display the data collected from each PLC connected through a *C-more* server panel.

# Program Via Ethernet or USB

## Network programming

Full-featured *C-more* panels can be programmed via the built-in Ethernet port (base models do not support Ethernet). Use a crossover cable to connect directly from a PC to the *C-more* panel, or connect one or more *C-more* panels to your plant network (via switches and routers) with a "straight-through" CAT5 cable. With *C-more* on the plant network, you can download projects from any connected PC. Use the network connection to upload alarm history, PLC/PAC log data or screen captures to a connected PC. *C-more* can send e-mail, based on events or PLC/PAC alarm conditions (if connected to a network and an SMTP (Simple Mail Transport Protocol) server).



*C-more* panel — Ethernet crossover CAT5 Cable

Ethernet Hub or Switch 10/100BaseT — *C-more* panel — Ethernet CAT5 Cable

## *C-more* programming software with Internet connection

You can program your *C-more* panel remotely via the Internet. All you need is a Public IP adress assigned to the *C-more* panel and a network that is accessible from the Internet.



Internet

## USB programming

For convenient programming, use a standard USB cable between your *C-more* panel and your PC. No baud-rate, parity, or stop bit settings to waste your time. USB is fast; most projects download in seconds. Don't pay inflated prices for proprietary programming cables! USB cables are inexpensive (we sell 'em!) and are readily available so you won't waste time looking for a special cable when your million-dollar operation is down.



*C-more* panel

USB-CBL-AB15

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