

## XC Series of high-performance PLCs



# Scalable automation and open programming for PLC applications



The Eaton XC family of PLCs offers a choice of three CPUs and 29 expansion modules, and is programmed using the open CoDeSys standard.

The XC Series modular PLCs offer the flexibility needed to meet the demanding requirements of today's automation projects. The broad range of XIOC expansion modules enables scalable and compact PLC configurations:

- XSoft-CoDeSys-2 software for advanced control and visualization programming (IEC 61131-3 standard)
- Available with high-density 32-point I/O expansion modules
- Easy installation with removable screw or spring-loaded terminal connections

All XC controllers can be expanded locally with up to 15 XIOC expansion modules. Eaton has three XC modular controllers in its family, including XC101, XC201 and XC202. XC201 controllers include Ethernet with the Web server optional. XC202 controllers include an Ethernet port and an integrated Web server. Fast and efficient CANopen communications are standard on all XC controllers.

XC controllers can facilitate several applications with CoDeSys communication libraries, including:

- FTP server and client data exchange
- UDP and TCP/IP data exchange
- Modbus® serial and Modbus TCP communications
- OPC server data exchange
- SMS or email communications

# EATON

Powering Business Worldwide

## XC Series of high-performance PLCs



### XC101 PLC controller features

- Parallel backplane bus
- Eight digital inputs
- Six isolated digital outputs
- Four interrupt inputs
- Real-time clock
- CANopen interface
- RS-232 port
- SD card slot



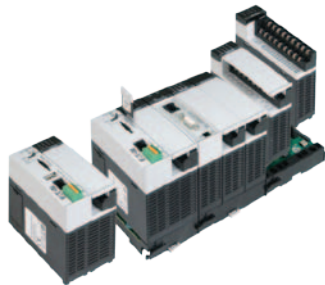
### XC201/202 PLC controller features

- Parallel backplane bus
- Eight digital inputs
- Six isolated digital outputs
- Two interrupt inputs
- Real-time clock
- CANopen interface
- RS-232 port
- SD card slot
- 10/100 Mbit Ethernet interface
- USB interface
- High-speed counter inputs
- Encoder inputs
- Integrated Web and FTP server (on -XV catalog suffix models)



**XC202 Controller with  
Optional SD Memory Card**

## Flexible controller to optimize your automation system



### XC201 Controller and XC202 PLC Assembly

#### Ethernet TCP/IP

The 10/100 Mbit Ethernet interface of XC201/202 controllers provides connectivity to your network infrastructure for fast programming access or data exchange between multiple PLCs, Web client/server or OPC client/server.

#### Cost-optimized design

The XIOC-16DX digital combination module offers a high degree of I/O flexibility. With four inputs and 12 configurable inputs/outputs, you can configure your own I/O points using a cost-effective and compact design.

#### Compact design

Up to 32 I/O points can be connected on one XIOC expansion module—a 30 mm by 100 mm footprint. This saves space on the control panel and enables a more compact automation solution.

#### High-speed analog inputs

A 1 ms conversion time for inputs and outputs of the analog combination modules provide fast throughput when needed.

#### Integrated CANopen interface

This interface enables the XC controllers to communicate with a wide range of devices, such as XI/ON Series remote I/O, operator interfaces and drives. XC101 supports up to 500 Kbaud and XC201/202 supports up to 1 Mbaud on CANopen.

#### Positioning made easy

The XIOC-2CNT counter module allows direct connection of two 5V incremental encoders. The two integrated  $\pm 10V$  outputs are provided for your analog needs, such as speed control for drives or position control for valves.

#### Analog I/O modules

- Four or eight analog inputs (current/voltage)
- Two or four analog outputs (current/voltage)
- Analog mixed modules 2/1 or 4/2 analog inputs/outputs

#### Digital I/O modules

- Eight, 16 and 32 digital inputs and outputs
- Eight, 16 and 32 digital outputs
- 12 isolated relay outputs
- Configurable combination module

#### Communication modules

- PROFIBUS® DP master and device modules
- Modbus master/device (RS-232, RS-485, RS-422)

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