

Communication meets innovation

Eaton's robust line of modular PLCs

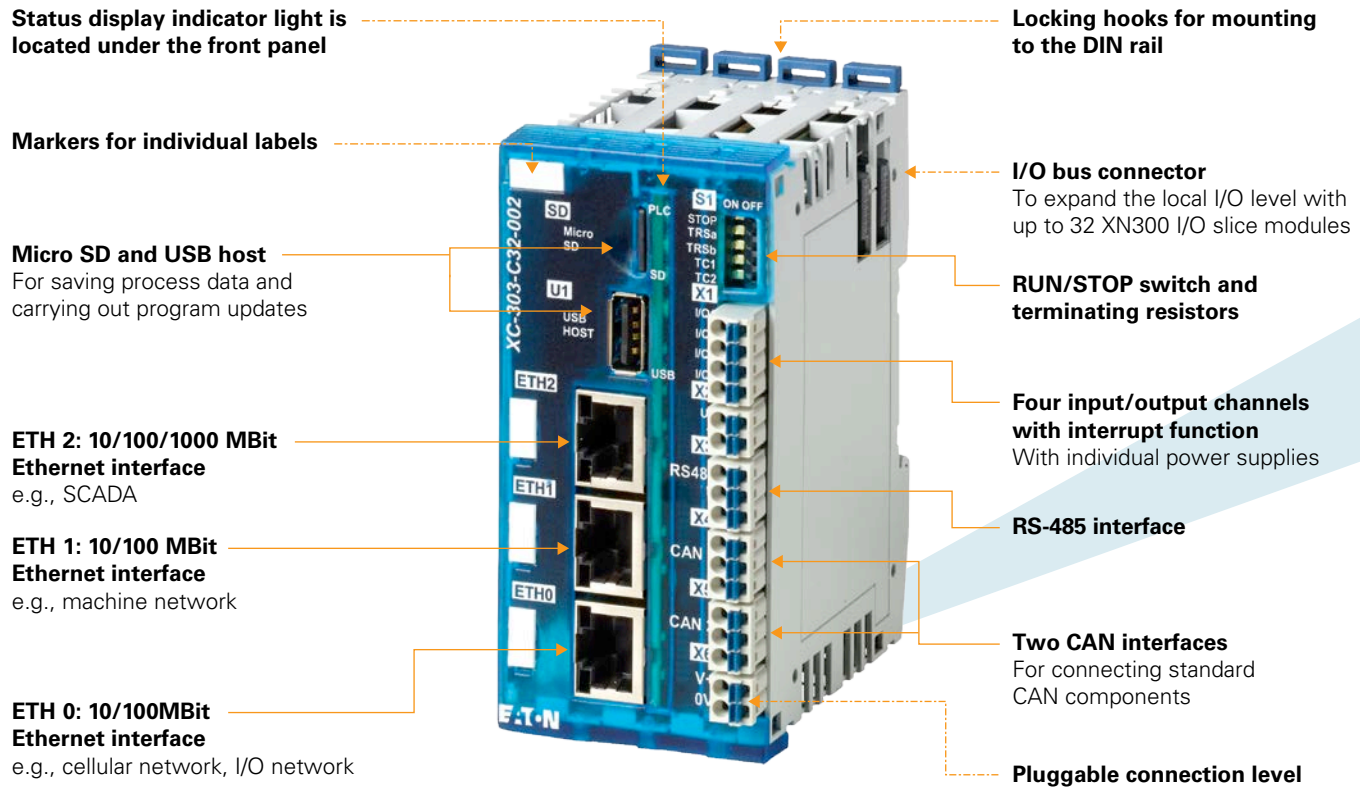


Powering Business Worldwide

Always connected

The XC300 is Eaton's powerful and flexible control system, allowing machine and plant builders to achieve a slim and modern automation concept in combination with the compact XN300 I/O slices and the innovative XV300 touch panel. A wide range of functions and interfaces enable the flexible use of the compact, high-performance control system in modular automation solutions. Ethernet interfaces for connection to different networks, along with the standard CAN and RS-485 interfaces, turn the device into a universal control and communication point within the networked machine.

Communication in a nutshell



Versatile application

Three Ethernet adaptors serve as a connection to various Ethernet networks, enabling secure, segmented communication.



Space-saving installation

In a small space, optimum system solutions are combined with the I/O devices of the XN300 system and its application-oriented functions.



Fast mounting

Easy to use because of pluggable connection level and tool-free installation. This saves time and allows the system to be pre-assembled.

The function level of the XC300 can be extended to a high degree of flexibility using all components of the XN300 I/O system and adjusted to the requirements of your machine. This enables you to produce flexible solutions in the smallest spaces, with high channel density and competitive costs.



Interfaces for every need

The connection to different Ethernet networks enables segmented machine architecture and simplifies security against unauthorized access. With the segmentation of individual networks for cell, machine and SCADA, communication security and performance aspects can be optimally coordinated.

Standard CAN components can be integrated into the automation solution by means of two additional CAN interfaces, one of which is galvanically isolated.

There are also four input/output channels with their own power supplies that complement the functions of the XC300, enabling it to be a universal control and communication point.

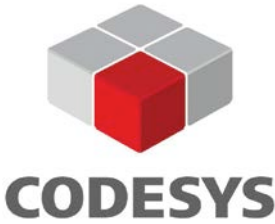


It is possible to connect the XC300 controller with the XN300 system either locally or in a decentralized manner.



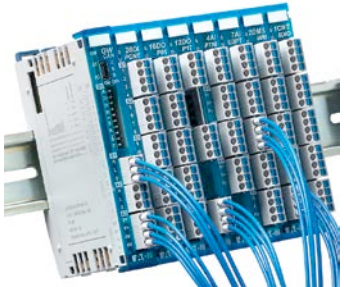
Simple to program

For series production, the device can be programmed using the micro SD card or the USB stick. The device automatically copies all relevant data.



Seamless integration

The programming and visualization of the PLC is based on CODESYS 3 and can be done using any of the Ethernet interfaces. Existing programs and libraries can be used by all XC devices.



Big efficiency in a small package

The components of the XN300 I/O system provide a broad range of functions that can be used as either local or decentralized I/Os.



Enhanced productivity

With its dual core ARM Cortex 7 CPU at 960 MHz, the XC300 processor enables task cycle times of under 1 ms, allowing faster machine speeds and higher productivity rates.



Flexible solution

The field level of the XC300 can be built and perfectly adapted to the application using the slice modules of the XN300 system with the digital, analog and technological functions.



Visualization in HTML5 standard

The integrated web server enables visualization on mobile devices such as PCs, tablets and smartphones.

XC300 device variants

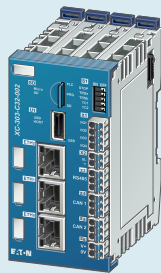
Comprehensive features

- Operating system: Linux
- Processor: ARM Cortex 7 dual core at 960 MHz
- Internal memory: 512 MB RAM / 128 MB FLASH / 128 kB NVRAM
- External memory: SD card
- Programming: CODESYS V3 (PLC and web visualization)
- Real-time clock: Available (capacitively buffered)
- RUN/STOP button: Available

Communication / interfaces

The following interface configurations are supported:

Protocol		Interface
CANopen	Master / Device	CAN1, CAN2
easyNet	Master / Device	CAN1, CAN2
Modbus RTU	Master / Device	RS-485
EtherCAT	Master (1x)	ETH0, ETH1, ETH2
Modbus TCP	Master / Device	ETH0, ETH1, ETH2
EtherNet/IP	Master	ETH0, ETH1, ETH2
OPC-UA / SCADA	Server	ETH0, ETH1, ETH2
WEB - VISU	HTML5 - Server	ETH0, ETH1, ETH2
Ethernet	HTTP, HTTPS, DHCP (Client), DNS, FTP, SFTP, SSL, TLS	ETH0, ETH1, ETH2



Type: XC-303-C32-002
Article No.: 191080

Interfaces:

- CAN1, CAN2, RS-485, ETH0, ETH1, ETH2
- USB host
- Four input/output channels (24 Vdc, 0.5 A)



Type: XC-303-C21-001
Article No.: 191081

Interfaces:

- CAN1, RS-485, ETH1, ETH2
- USB host



Type: XC-303-C11-000
Article No.: 191082

Interfaces:

- CAN2, ETH1

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Printed in USA
Publication No. BR050008EN / Z21242
July 2018

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