Distributed Intelligence for Machines

Powering Business Worldwide

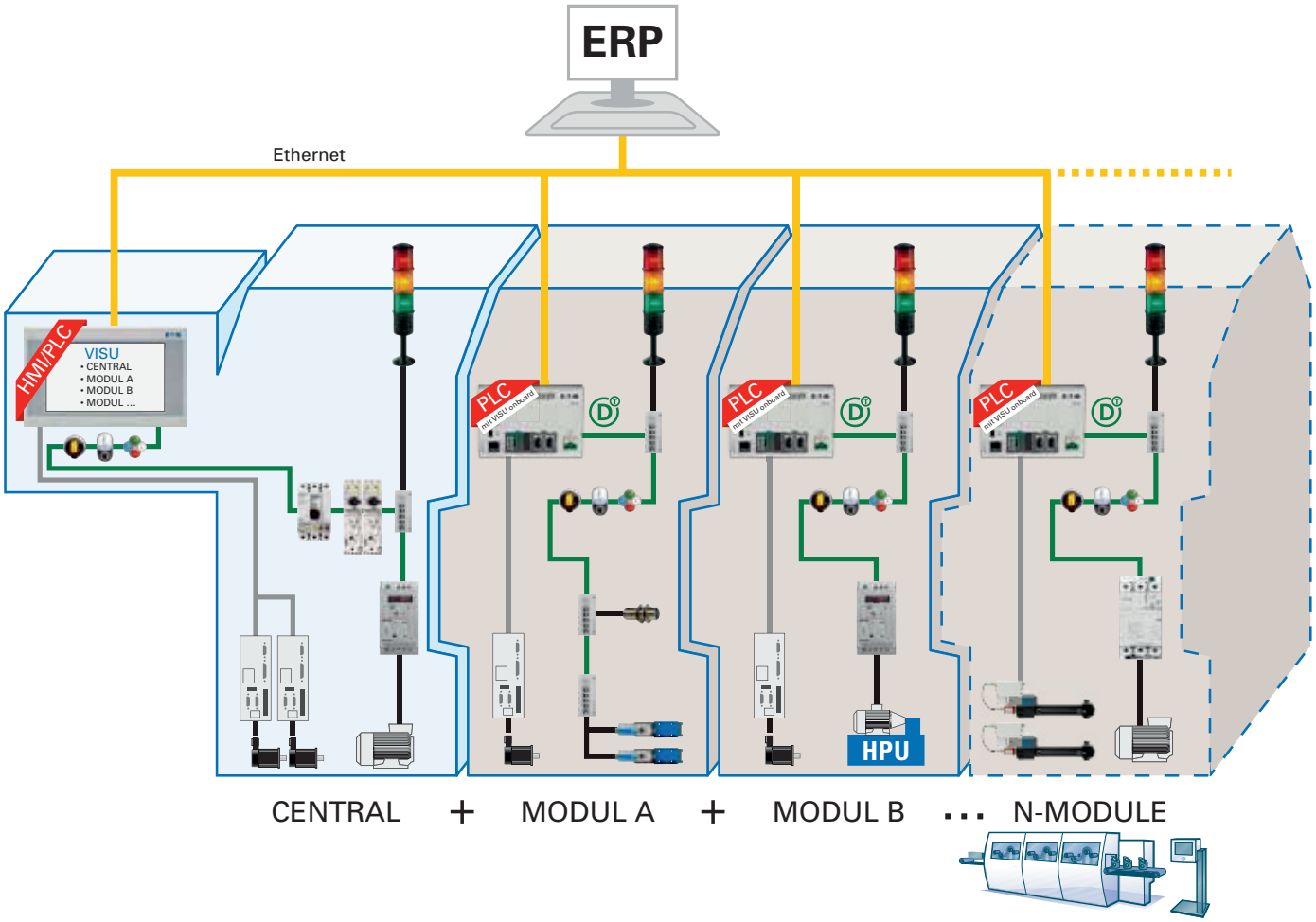
Lean Automation with the XC152 in Modular Machine Building Applications

Our new XC152 compact PLC combines plenty of processing power with a large number of communication interfaces. This makes the device particularly well-suited to standardized automation solutions in the field of modular machine building.

The XC152 is not limited to providing machine segment control functions that can be programmed with CoDeSys, but also makes it possible to store module-specific visualizations. These visualizations can be retrieved and shown on a central HMI or computer as needed.

In addition, the XC152 connects SmartWire-DT systems to standard field bus systems via its interfaces.

This enables the XC152 PLC to support Eaton's Lean Automation strategy while enabling users to design automation systems in a flexible manner and run them cost-effectively.



Flexible solutions for modular machine units

In the field of automation, complex processes are subdivided into easily manageable functional units in order to make programming, production, and installation easier. For example, a packaging machine can be subdivided into infeed, positioning (erector), filling, and sealer (gluing) modules. Other systems and machines can also be effectively subdivided in order to create a wide variety of different models or delimit various expansion stages.
With the XC152, a powerful PLC controls individual system modules while making it possible to directly connect SmartWire-DT system devices and standard field bus components. Data transfers via the Ethernet interface to OPC clients, together with the available remote visualization options, support a connection to a central control and visualization system.

And more:

- **SmartWire-DT**
The XC152 relies on our tried-and-true SmartWire-DT connection system, eliminating the need for control current wiring in every single machine module and simplifying the commissioning process by means of better diagnostic options. This results in significant design, commissioning, and maintenance cost reductions.

- **Standard CAN and PROFIBUS field bus systems**
Servo drives, frequency inverters, and hydraulic components can all be easily connected using the large number of field bus interfaces available on the XC152.

- **Visualization**
The integrated web visualization function offers a key advantage, as machine module diagnostic and visualization information can be displayed on a central HMI or terminal.

Features:
- OS: Windows CE 5
- Processor: 32Bit RISC CPU @ 400MHz
- OS-, program and data memory: 64 MB
- Ethernet interface on board
- External memory: 1 x SD card
- Optional: SmartWire-DT
- Optional: RS232, RS485, Profibus/MPI, CANopen/easyNet
- RUN/STOP switch
- CODESYS PLC and WEB visualisation
- Galileo/CODESYS remote visualisation

Technical data

System

Processor	RISC, 32 Bit @400MHz
Internal memory	
– DRAM (OS-, Program and data memory)	64 MByte
– NAND FLASH (can be used for data security)	Approx. 128 Mbyte available
– NVRAM (Retain)	Approx. 32 kByte available
External memory	
– SD Memory Card Slot	SDA Specification 1.00
Real-time clock (battery back-up)	
– Battery (not rechargeable)	Zero maintenance
– Backup time at zero voltage	Normally 10 years
Operating system	Windows CE5

Engineering

PLC-Programming software	CODESYS 2/3
Visualization	
– WEB-VISU	CODESYS
– Remote Client	Galileo/CODESYS

Interfaces, communication

Ethernet	100Base-TX/10Base-T				
USB Host	-				
USB device[1)]	USB 2.0, not galvanically isolated				
	XC-152-D6-11	XC-152-D8-11	XC-152-E3-11	XC-152-E6-11	XC-152-E8-11
System Port (RS232)[1)]	X	X	X	-	-
SmartWire-DT[1)]	-	-	X	X	X
CAN[1)]	X	-	-	X	-
PROFIBUS/MPI[1)]	-	X	-	-	X
RS485[1)]	X	X	-	X	X

General

Rated operating voltage	24 VDC SELV
Power consumption	Max. 5 W
Protection against polarity reversal	yes
Approvals	CE, cULus
Ambient air temperature	0°C – 55°C
Storage	- 40°C – 70°C
Protection type	IP20
Flush mounting	DIN rail EN 60715, 35 mm
Dimension (H x W x D)	105 mm x 155 mm x 40 mm
Weight	Approx. 0.3 kg
Applied standards and directives	
– Product standard	IEC/EN 61131-2, EN50178
– EMC	EN 61000-6-2, EN 61000-6-4,

Note: [1)] Interface not galvanically isolated

Ordering data

Description	part no.	Article no.
PLC, Windows CE, CAN, RS485, RS232	XC-152-D6-11	167855
PLC, Windows CE, MPI/DPM, RS485, RS232	XC-152-D8-11	167849
PLC, Windows CE, SW-DT, RS232	XC-152-E3-11	167850
PLC, Windows CE, SW-DT, CAN, RS485	XC-152-E6-11	167851
PLC, Windows CE, SW-DT, MPI/DPM, RS485	XC-152-E8-11	167852

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FL050002EN ip 10/12
Article No.: 170496

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