

# Anybus Communicator



## Serial Device to Control System (PLC)

Integrate your serial RS-232/485 based industrial devices and equipment to EtherCAT, EtherNet/IP, Modbus TCP, PROFIBUS or PROFINET control systems (PLC) without any changes to the device. Just connect, configure and you're done.

The Anybus Communicator can transfer large amounts of data, is fast to configure thanks to its' drag and drop web interface and is built on trusted Anybus technology

## Convert almost any type of serial protocol

The Communicator can convert both standard serial protocols such as Modbus RTU and proprietary serial request/response or produce/consume based protocols.

## High performance

Instant data transfer of up to 1500 bytes with hardware accelerated endian conversion (byte swap) enables you to take full advantage of high-speed industrial networks.



## Cybersecurity

Designed to keep you safe from cyberattacks. Secure boot protects you against malicious software and a security switch adds physical protection to prevent unauthorized configuration changes.



## Durability

Built using carefully selected industrial components and verified against industry standards. Proven network conformance thanks to the market-leading NP40 network processor.



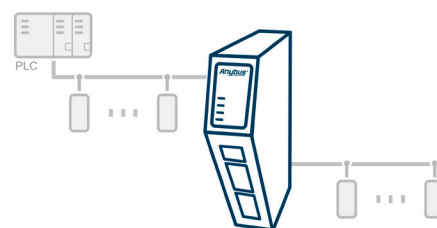
## User-friendly

Fast installation and configuration are guaranteed thanks to an intuitive web user interface, ethernet configuration cable, easy-to-understand documentation, and effective housing design



## Product selection

Article nr	Control sys. 1	RS-232/485 device(s)	Replaces
ABC3000	PROFIBUS	Serial / Modbus RTU	AB7000
ABC3000EX	PROFIBUS ATEX	Serial / Modbus RTU	AB7000
ABC3007	EtherNet/IP	Serial / Modbus RTU	AB7007
ABC3013	PROFINET	Serial / Modbus RTU	AB7013
ABC3028	Modbus TCP	Serial / Modbus RTU	AB7028
ABC3061	EtherCAT	Serial / Modbus RTU	AB7061
ABC3090	*Common Ethernet	Serial / Modbus RTU	AB7072
ABC3090EX	*Common Ethernet ATEX	Serial / Modbus RTU	AB7072



\*Common ethernet: select among EtherCAT, EtherNet/IP, Modbus TCP and PROFINET control system



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### General

Dimensions with connectors (L x W x H)	98 x 27 x 144 mm / 3.85 x 1.06 x 5,67 in
Weight	150 grams, 0.33 lb
IP rating	IP20
Housing material	PC ABS, UL 94 VO
Mounting	DIN rail (35 * 7,5/15)
Operating temperature	-25 to 70° C, -13 to 158° F
Configuration	Web based via Ethernet configuration port
Serial connector	Serial 7-pin screw in
Industrial network connector(s)	2xRJ45 10/100 Mbit (daisy chaining) / DB9 (PROFIBUS)
Certification	CE, UKCA, UL ord loc (E214107), KC, RMC
MTBF	> 1 500 000 h, Telcordia Method I Case 3 at 30° C

### Power

Input voltage	12- 30 VDC
Current consumption	Typical: 160 mA @ 24V Max: 400 mA @ 12V
Power connector	3-pin plug with screw terminal
Protection	Reverse voltage protection and short circuit protection

### Network specifications

Modbus TCP Server	PROFINET IO Device	Ethernet/IP Adapter
<ul style="list-style-type: none"> <li>- Transfer up to 1 500 bytes to Modbus TCP</li> <li>- Transfer up to 1 500 bytes from Modbus TCP</li> <li>- Total supported process data: 3 000 bytes</li> <li>- 4 connections</li> <li>- Function codes 01-06, 15-16, 23, 43/14</li> </ul>	<ul style="list-style-type: none"> <li>- Transfer up to 1 024 bytes from PROFINET</li> <li>- Transfer up to 1 024 bytes to PROFINET</li> <li>- Total supported cyclic process data: 2048 bytes</li> <li>- 1 ms minimum cycle time</li> <li>- Conformance class B, Real-Time (RT)</li> <li>- Network load robustness, Netload Class III</li> </ul>	<ul style="list-style-type: none"> <li>- Transfer up to 1 448 bytes to EtherNet/IP</li> <li>- Transfer up to 1 448 bytes from EtherNet/IP</li> <li>- Total supported cyclic process data: 2896 bytes</li> <li>- Class 1 and Class 3 connection for process data</li> <li>- Device Level Ring (beacon mode)</li> <li>- Quick Connect class B</li> </ul>
PROFIBUS DP Device (DPV1/DPV0)	EtherCAT SubDevice	Serial / Modbus RTU Client
<ul style="list-style-type: none"> <li>- Transfer up to 244 bytes to PROFIBUS</li> <li>- Transfer up to 244 bytes from PROFIBUS</li> <li>- Total supported process data: 488 bytes</li> <li>- Automatic baud rate detection up to 12 Mbit/s</li> <li>- Sync, Freeze and Watchdog</li> <li>- I&amp;M Ident numbers 0-31x</li> </ul>	<ul style="list-style-type: none"> <li>- Transfer up to 1 486 bytes from EtherCAT</li> <li>- Transfer up to 1 486 bytes to EtherCAT</li> <li>- Total supported process data: 2 972 bytes</li> <li>- EtherCAT SubDevice according to IEC 61158 Type 12 (ETG.1000)</li> <li>- Network cycle time down to 100 µs</li> <li>- Supports CANopen over EtherCAT</li> </ul>	<ul style="list-style-type: none"> <li>- Transfer up to 1500 bytes from Serial / Modbus RTU Client</li> <li>- Transfer up to 1500 bytes to Serial / Modbus RTU Client</li> <li>- Total supported cyclic data: 3 000 bytes</li> <li>- Selectable RS-232/485 interface</li> <li>- Up to 31 nodes</li> <li>- 3 ms update rate</li> <li>- 1.2 to 128 kbps</li> </ul>