Anybus Communicator Common Ethernet to Common Ethernet ATEX

Item number: ABC4090EX-A

The Anybus Communicator Common Ethernet to Common Ethernet ATEX enables you to connect any device or equipment to PROFINET, EtherCAT, EtherNet/IP, and Modbus TCP control systems. Anybus Communicators ensure reliable, secure, and high-speed data transfers. The intuitive user interface makes them incredibly easy to use.



A protocol converter that connects devices to Industrial Ethernet control systems

Features and benefits

Transfer up to 1500 bytes to and from the controller (PLC)

Transfer up to 1500 bytes (network dependent) in each direction (3000 bytes total) via dual 10/100 Mbit full duplex RJ45 ports with an integrated switch for daisy-chaining.

Selectable Industrial Ethernet network

Cover multiple protocols with a single Communicator. Supports EtherNet/IP, EtherCAT, Modbus TCP, and PROFINET. Download firmware for your desired protocols from the product webpage and upload it via the Communicator's interface.

EX certified

Certified for ATEX Zone 2 and UL Hazardous Location Class 1 Division 2 for use in areas where explosive gas may exist.

Instant data transfer

The Communicator transfers data instantly between networks, with processing time so low you don’t even need to count it, as it’s in line with network jitter. Just add the cycle times of both networks to get the total transfer time.

Configure via web interface over Ethernet

With a graphical and responsive web interface, configuration is a breeze. In addition, there's no software to install and the dedicated Ethernet configuration port makes it easy to get started.

Diagnostics and support

The user interface shows connection status, allowing you to monitor the data going through the gateway. Monitor and control offline behavior via the Status Byte and Clear Data features. Our global support team is ready to help if needed.

Drop-in replacement

Already using an X-gateway? Don’t worry, with legacy mode you can continue using the same configuration in your controller/PLC.

Secure and segment networks

Secure boot blocks malware, while a security switch locks configurations to prevent unauthorized changes. Network segmentation is inherent in the design, as each network is run separately, with only configured data transferred between networks.

Built for factory floors

The Gateway is made with industrial-grade components, verified to meet industry standards, and backed by a 1-year warranty. Its slim form factor, front-facing ports, and cable tie make DIN-rail installation easy.

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General

Net Width (mm)	27
Net Height (mm)	144
Net Depth (mm)	98
Net Weight (g)	150
Packed Width (mm)	35
Packed Height (mm)	170
Packed Depth (mm)	115
Packed Weight (g)	185
Operating Temperature °C Max	70
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Power Connector	3-pin, 5.08 Phoenix plug connector
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Isolation	TRUE
Content of Delivery	Gateway, power connector, start-up guide, compliance information sheet
Mounting	DIN-rail (EN 50022 standard)
Housing Materials	PC ABS, UL 94 VO
Packaging Material	Cardboard

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General

Warranty (years)	1

Identification and Status

Product ID	ABC4090EX-A
Model Code	40-ETH-ETH-B-EX
Export Control Classification Number (ECCN) (Applies only to the U.S)	5A991.b.1

Physical Features

Push Buttons	Factory reset
Contains Battery	No

EtherCAT Features

EtherCAT Bandwidth	10/100 Mbit down to 1ms cycle time
EtherCAT Input Data Size	1500 bytes
EtherCAT Output Data Size	1500 bytes

EtherNet/IP Features

EtherNet/IP Bandwidth	10/100MBit down to 1ms cycle time
EtherNet/IP Input Data Size	1448 bytes
EtherNet/IP Output Data Size	1448 bytes

Modbus-TCP Features

Modbus-TCP Supported Functionality	Modbus specification V1.1b3; 4 connections; Daisy chaining
Modbus-TCP Functions Supported	1, 2, 3, 4, 5, 6, 15, 16, 23, 43/14
Modbus-TCP Bandwidth	10/100 Mbit/s
Modbus-TCP Input Data Size	1500 bytes
Modbus-TCP Output Data Size	1500 bytes

PROFINET Features

PROFINET Bandwidth	10/100MBit down to 1ms cycle time

PROFINET Input Data Size	1024 bytes

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PROFINET Features

PROFINET Output Data Size	1024 bytes

Certifications and Standards

Protection Class IP	IP20
Product Certifications	CE, UL, ATEX , EMC
ATEX Information	II 3 G Ex ec IIC T4 Gc, EN IEC 60079-0, 60079-7, IEC 60664-1
Environment	EN 55016-2-3 Class A, EN 55032 Class A, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-8
WEEE Category	IT and telecommunications equipment

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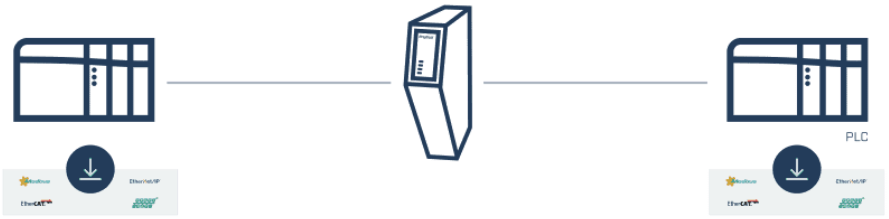
Use Case



The communicator can be used wherever there is a need to transfer data between control systems using different industrial protocols.