Anybus Communicator – EtherCAT MainDevice to PROFIBUS DP Device ATEX

Item number: ABC3100EX-A

The Anybus Communicator EtherCAT MainDevice to PROFIBUS ATEX enables you to connect any EtherCAT device to PROFIBUS control systems. Anybus Communicators ensure reliable, secure, and high-speed data transfers between different industrial networks. Thanks to our intuitive web-based user interface, they're also incredibly easy to use.



A protocol converter that connects EtherCAT devices to PROFIBUS control systems

Features and benefits

Connect up to 24 SubDevices with Scanning

Support for up to 24 SubDevices, 1486 bytes per device, and a 1 ms cycle time for demanding applications. Scan for EtherCAT devices via the web interface, automatically identifying and mapping them to the controller/PLC.

EX certified

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

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.

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.

Transfer 244 bytes to and from PROFIBUS controller (PLC)

Transfer up to 244 bytes in each direction (488 bytes total). PROFIBUS DP device (slave) with automatic baud rate detection. Address setting via rotary switches or web interface. Includes a GSD file.

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.

Diagnostics and support

The user interface shows connection status, allowing you to monitor data going through the gateway. Monitor and control SubDevices via the Live List and Data Exchange Control features. Our global support team is ready to help if needed.

Built for factory floors

The Gateway is made with industrial-grade components, verified to meet industry standards, and backed by a 5-year warranty. Its slim form factor, front-facing ports, and cable tie make DIN-rail installation easy.

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General

Net Weight (g)	150
Packed Width (mm)	35
Packed Height (mm)	170
Packed Depth (mm)	115
Packed Weight (g)	150
Operating Temperature °C Min	-25
Operating Temperature °C Max	70
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Current Consumption Type Value at Vcc Nom (mA)	90mA @ 24V DC (2.2W)
Current Consumption Max value at Vcc nom (mA)	125mA @24V DC (3W)
Input Voltage (V)	12-30V DC
Power Connector	3-pin, 5.08 Phoenix plug connector
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Isolation	Yes
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

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General

Packaging Material	Cardboard
Warranty (years)	5

Identification and Status

Product ID	ABC3100EX-A
Model Code	40-ETH-PDP-A-EX
Country of Origin	Sweden
HS Code	8517620000
Dual Usage	No

Physical Features

Connectors / Input / Output	2xRJ45;1x D-sub 9-pin female PROFIBUS connector;RJ45 Config port
Push Buttons	Factory reset
DIP & Rotary Switches	Security lock switch
Contains Battery	No

EtherCAT Features

EtherCAT Mode	Master / MainDevice
EtherCAT Supported Functionality	COE (Can Over EtherCAT); PDO; Scan only
EtherCAT No. Of Subordinate Devices	24 Slaves / SubDevices
EtherCAT Bandwidth	10/100 Mbit down to 1ms cycle time
EtherCAT Input Data Size	1500 bytes
EtherCAT Output Data Size	1500 bytes

PROFIBUS Features

PROFIBUS Mode	DP Device
PROFIBUS Supported Functionality	PROFIBUS-DP Slave functionality according to extensions of EN 50170

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PROFIBUS Features

PROFIBUS Device Address	0-125
PROFIBUS Configuration File	GSD available
PROFIBUS Baud Rate	9600 bit/s - 12 Mbit/s
PROFIBUS Input Data Size	244 bytes
PROFIBUS Output Data Size	244 bytes

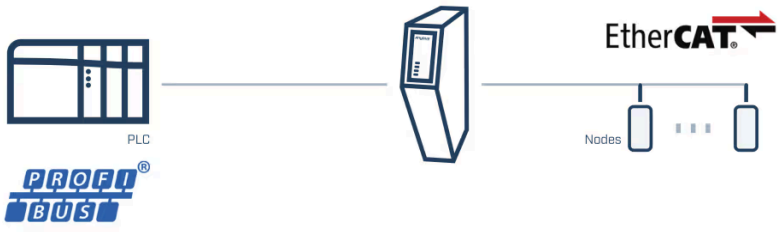
Certifications and Standards

Protection Class IP	IP20
Recycle / Disposal	Yes
Product Certifications	CE, UL, ATEX , KC, WEEE, EMC
UL Information	E214107: Ord.Loc UL 61010-1, CSA C22.2 No. 61010-1, UL 61010-2-201, CSA C22.2 No. 61010-2-201; E203225: Haz.Loc CL I DIV2 GP A,B,C,D T4, UL 121201, CAN/CSA C22.2 NO. 213-17
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 61000-4-6

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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.