Anybus Communicator – EtherCAT MainDevice to Common Ethernet ATEX

Item number: ABC3190EX-A

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



A protocol converter that connects EtherCAT devices to Industrial Ethernet networks

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.

Selectable Industrial Ethernet network

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

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.

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.

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.

Anybus Communicator – EtherCAT MainDevice to Common Ethernet ATEX



General

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
Packaging Material	Cardboard
Warranty (years)	5

Identification and Status

Product ID	ABC3190EX-A
Model Code	40-ETH-ETH-B-EX
Country of Origin	Sweden

Anybus Communicator – EtherCAT MainDevice to Common Ethernet ATEX



Identification and Status

HS Code	8517620000
Dual Usage	No

Physical Features

Connectors / Input / Output	2xRJ45;2x RJ45;2xRJ45;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

EtherNet/IP Features

EtherNet/IP Mode	Adapter / Slave
EtherNet/IP Supported Functionality	Endian conversion (byte swap); QoS; Ethernet/IP Class 1 and 3; Quick Connect Class B; DLR (beacon mode); Daisy Chainging; CT19 ODVA Conformance
EtherNet/IP Configuration File	EDS available
EtherNet/IP Bandwidth	10/100 MBit down to 1ms cycle time
EtherNet/IP Input Data Size	1448 bytes
EtherNet/IP Output Data Size	1448 bytes

Modbus-TCP Features

Modbus-TCP Mode	Slave / Server

Anybus Communicator – EtherCAT MainDevice to Common Ethernet ATEX



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
Modbus-TCP Input Data Size	1500 bytes
Modbus-TCP Output Data Size	1500 bytes

PROFINET Features

PROFINET Mode	Slave
PROFINET Supported Functionality	RT; Daisy chaining;
PROFINET Conformance Class	Class B
PROFINET Configuration File	GSDML available
PROFINET Bandwidth	10/100 Mbit/s down to 1ms cycle time
PROFINET Input Data Size	1024 bytes
PROFINET Output Data Size	1024 bytes

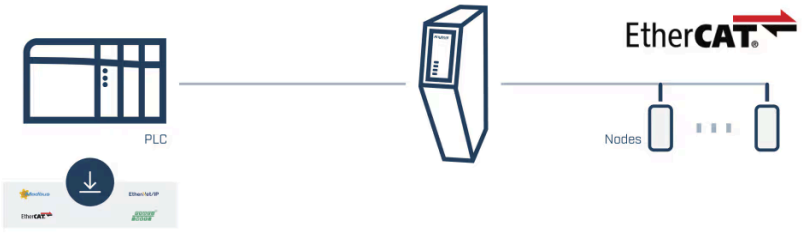
Certifications and Standards

Protection Class IP	IP20
RoHS Compliant	Yes
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

Anybus Communicator – EtherCAT MainDevice to Common Ethernet ATEX



Use Case



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