

## Anybus Communicator – EtherCAT MainDevice to Modbus TCP server

Item number: ABC3128-A

The Anybus Communicator EtherCAT MainDevice to Modbus TCP enables you to connect any EtherCAT device to Modbus TCP control systems. Anybus Communicators ensure reliable, secure, and high-speed data transfer 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 Modbus TCP control systems*

### Features and benefits

- ✓ **Intuitive user interface**  
Use the intuitive web-based user interface to easily configure the Communicator via the drag-and-drop functionality or to analyze live data, export log files, and generate support packages.
- ✓ **High performance**  
Powered by the award-winning NP40 network processor and high-end components, the Communicator meets the constantly growing demand for more data to be transferred faster.
- ✓ **Instant data transfer**  
Instant data transfer lets you take advantage of high-speed industrial networks, as the Communicator provides hardware-accelerated endian conversion (byte swap), saving processing time on the PLC.
- ✓ **Instant diagnostics**  
The user interface displays real-time connection status and I/O data mapping for easy troubleshooting. Easily generate a support file containing all the necessary information.
- ✓ **Life cycle management**  
HMS maintains every part of the Communicator, including network updates, throughout the product's lifecycle.
- ✓ **Cybersecurity**  
The secure boot protects against malware, while a security switch locks configurations to prevent unauthorized changes. Ports used in production are disabled to add another layer of security.
- ✓ **Optimized hardware design**  
The Communicator has forward-facing ports and is designed for IP20 and DIN-rail mounting, enabling you to install it with ease, close to connected devices, thereby reducing wiring requirements.
- ✓ **5-year warranty**  
Thanks to carefully selected industrial components the Communicator operates reliably in harsh environments, ensuring uptime and longevity. Our confidence in quality is reflected in a 5-year warranty.
- ✓ **Brand Labeling**  
Pre-configure the Communicator and customize the hardware and user interface with your colors and logos.

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General	
Net Width (mm)	27
Net Height (mm)	144
Net Depth (mm)	98
Net Weight (g)	150
Packed Width (mm)	12
Packed Height (mm)	2
Packed Depth (mm)	8
Packed Weight (g)	185
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
Isolation	TRUE
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	ABC3128-A
Model Code	40-ETH-ETH-B
Country of Origin	Sweden
HS Code	8517620000
Export Control Classification Number (ECCN)	5A991.b.1

## Physical Features

Connectors / Input / Output	2xRJ45, 2xRJ45, RJ45 Config port
Push Buttons	Factory reset
DIP & Rotary Switches	Security lock switch

## 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

## Modbus-TCP Features

Modbus-TCP Mode	Slave / Server
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

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## Modbus-TCP Features

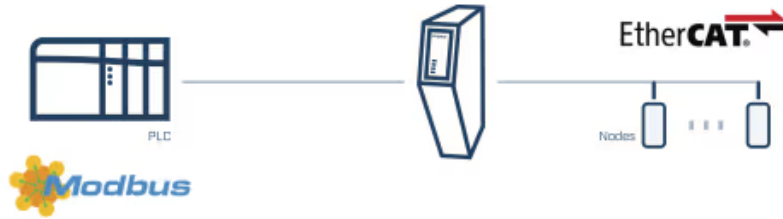
<b>Modbus-TCP Bandwidth</b>	10/100 Mbit/s
<b>Modbus-TCP Input Data Size</b>	1500 bytes
<b>Modbus-TCP Output Data Size</b>	1500 bytes

## Certifications and Standards

<b>Protection Class IP</b>	IP20
<b>Recycle / Disposal</b>	TRUE
<b>UL Information</b>	E214107: Ord.Loc UL 61010-1, CSA C22.2 No. 61010-1, UL 61010-2-201, CSA C22.2 No. 61010-2-201
<b>ATEX Information</b>	II 3 G Ex ec IIC T4 Gc, EN IEC 60079-0, 60079-7, IEC 60664-1
<b>Environment</b>	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
<b>WEEE Category</b>	IT and telecommunications equipment



## Use Case



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