

## Anybus Communicator – EtherCAT MainDevice to Common Ethernet

Item number: ABC3190-A

The Anybus Communicator EtherCAT MainDevice to Common Ethernet 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. They include built-in cybersecurity features and are compliant with the Cyber Resilience Act (CRA). 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.
- ✓ **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.
- ✓ **Cyber Resilience Act (CRA)-ready**  
Developed under an IEC 62443-4-1 certified process, with HTTPS configuration, role-based access control, and a physical security switch to help meet CRA requirements.
- ✓ **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.
- ✓ **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 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 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                                      | TRUE                               |

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## General

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| 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)    | 1                                                                      |

## Identification and Status

|                                                                       |              |
|-----------------------------------------------------------------------|--------------|
| Product ID                                                            | ABC3190-A    |
| Model Code                                                            | 40-ETH-ETH-B |
| Country of Origin                                                     | Sweden       |
| HS Code                                                               | 8517620000   |
| Dual Usage                                                            | No           |
| Export Control Classification Number (ECCN) (Applies only to the U.S) | 5A991.b.1    |

## Physical Features

|                             |                                                   |
|-----------------------------|---------------------------------------------------|
| Connectors / Input / Output | 2xRJ45, 2xRJ45, 2x RJ45, 2xRJ45, RJ45 Config port |
| Push Buttons                | Factory reset                                     |
| 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                              |

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## EtherCAT Features

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

## Modbus-TCP Features

|                                    |                                                            |
|------------------------------------|------------------------------------------------------------|
| Modbus-TCP 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                        |
| Modbus-TCP Bandwidth               | 10/100 Mbit/s                                              |
| 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               | 10/100MBit down to 1ms cycle time |
| PROFINET Input Data Size         | 1024 bytes                        |

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## PROFINET Features

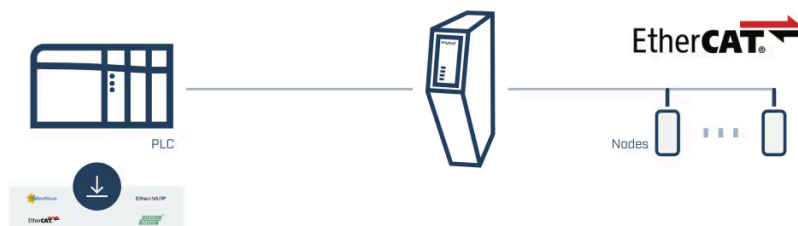
|                           |            |
|---------------------------|------------|
| PROFINET Output Data Size | 1024 bytes |
|---------------------------|------------|

## Certifications and Standards

|                        |                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------|
| Protection Class IP    | IP20                                                                                                         |
| Product Certifications | CE, UL, 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                |
| 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 |
| WEEE Category          | 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.