

## Anybus Communicator – EtherCAT slave to PROFIBUS DP Device

Item number: ABC4021-A

The Anybus Communicator EtherCAT slave to PROFIBUS DP Device enables you to connect any EtherCAT control system to any PROFIBUS control system. Anybus Communicators ensure reliable, secure, 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 and PROFIBUS DP 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.

#### ✓ Ensures uptime

Thanks to carefully selected industrial components the Communicator operates reliably in harsh industrial environments ensuring uptime and a long life.

#### ✓ Brand Labeling

Pre-configure the Communicator and customize the hardware and user interface with your colors and logos.

#### ✓ 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

The Communicator is made to be durable and have a long life. We're so confident in its quality that we provide a 5-year warranty.

#### ✓ 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.

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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

|                    |                              |
|--------------------|------------------------------|
| Mounting           | DIN-rail (EN 50022 standard) |
| Housing Materials  | PC ABS, UL 94 VO             |
| Packaging Material | Cardboard                    |
| Warranty (years)   | 5                            |

## Identification and Status

|                                             |              |
|---------------------------------------------|--------------|
| Product ID                                  | ABC4021-A    |
| Model Code                                  | 40-ETH-PDP-A |
| Predecessor                                 | AB7685-F     |
| Country of Origin                           | Sweden       |
| HS Code                                     | 8517620000   |
| Dual Usage                                  | No           |
| Export Control Classification Number (ECCN) | 5A991.b.1    |

## 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                    | Slave / SubDevice                                                                                    |
| EtherCAT Supported Functionality | COE (Can Over EtherCAT); PDO, SDO; APRD, ARMW, APWR, BRD, BWR, FPRD, FPRW, FPWR, FRMW, LRD, LRW, LWR |
| EtherCAT Configuration File      | ESI available                                                                                        |
| EtherCAT Bandwidth               | 10/100 Mbit down to 100us cycle time                                                                 |

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## EtherCAT Features

|                           |            |
|---------------------------|------------|
| EtherCAT Input Data Size  | 1486 bytes |
| EtherCAT Output Data Size | 1486 bytes |

## PROFIBUS Features

|                                  |                                                                     |
|----------------------------------|---------------------------------------------------------------------|
| PROFIBUS Mode                    | DP Device                                                           |
| PROFIBUS Supported Functionality | PROFIBUS-DP Slave functionality according to extensions of EN 50170 |
| 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                                                                                          |
| RoHS Compliant      | Yes                                                                                           |
| Recycle / Disposal  | TRUE                                                                                          |
| CE                  | Yes                                                                                           |
| FCC                 | No                                                                                            |
| UL                  | Yes                                                                                           |
| 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 |
| ATEX                | No                                                                                            |
| KC                  | Yes                                                                                           |
| EMC                 | Yes                                                                                           |

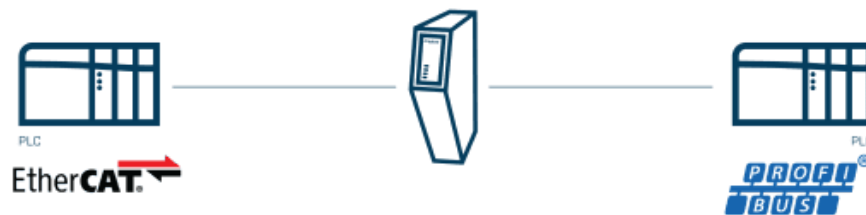
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| Certifications and Standards |                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------|
| 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 |
| Waste Certification (WEEE)   | Yes                                                                                                          |
| 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.