

Anybus Communicator – PROFINET IO Device to EtherCAT slave

Item number: ABC4020-A

The Anybus Communicator PROFINET IO Device to EtherCAT slave enables you to connect any PROFINET IO control system to any EtherCAT 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 PROFINET IO and EtherCAT 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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Identification and Status

| | |
|---|--------------|
| Product ID | ABC4020-A |
| Model Code | 40-ETH-ETH-B |
| Predecessor | AB7684-F |
| Country of Origin | Sweden |
| HS Code | 8517620000 |
| Export Control Classification Number (ECCN) | 5A991.b.1 |

General

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|--|----------------------|
| 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) |

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General

| | |
|---|------------------------------------|
| 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 |
| Packaging Material | Cardboard |
| Warranty (years) | 5 |

Physical Features

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

EtherCAT Features

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

PROFINET Features

| | |
|----------------------------------|---------------------|
| PROFINET Mode | Slave |
| PROFINET Supported Functionality | RT; Daisy chaining; |
| PROFINET Conformance Class | Class B |

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PROFINET Features

| | |
|------------------------------------|-----------------------------------|
| PROFINET Configuration File | GSDML available |
| PROFINET Bandwidth | 10/100MBit down to 1ms cycle time |
| PROFINET Input Data Size | 1024 bytes |
| PROFINET Output Data Size | 1024 bytes |

Certifications and Standards

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|----------------------------|--|
| Protection Class IP | IP20 |
| 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 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 |
| 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.