

## Anybus X-gateway - Modbus TCP Client - PROFINET-IO Device

Item number: AB9007-B

The Anybus X-gateway Modbus TCP Client to PROFINET-IO Device enables you to connect any Modbus TCP device or equipment to PROFINET-IO control systems. It can be used when there is no existing Modbus TCP control system. Anybus gateways ensure reliable, secure, high-speed data transfers between different industrial networks while being easy to use.



*A protocol converter that connects Modbus TCP devices to PROFINET-IO PLCs*

### Features and benefits

- ✓ **Reach new markets**  
Target new markets using different protocols without needing to change your hardware or software, thereby decreasing your time to market and development costs.
- ✓ **Slim hardware design**  
The gateway is designed for IP20 and DIN-rail mounting, enabling you to install it with ease, close to connected devices, thereby reducing wiring requirements.
- ✓ **Easy configuration – No programming required!**  
Quickly establish the connection between the two networks with the included Anybus Configuration Manager software. No programming skills are required for the setup process.
- ✓ **Powerful**  
Up to 512 bytes of Input and Output data in each direction.
- ✓ **Life cycle management**  
HMS maintains every part of the gateway, including network updates, throughout the product's lifecycle.
- ✓ **No PLC card slot needed**  
The gateway does not use a card slot in the control system, leaving room for other equipment.
- ✓ **3-year warranty**  
The gateway is designed to be robust and long-lasting. A 3-year guarantee is provided.
- ✓ **Increased PLC performance**  
The gateway allows for fast transfer of cyclic I/O data between the two networks, offloading your PLC from working with additional calculations.
- ✓ **Trusted partner**  
Anybus has a long history of working with all the major network organizations to ensure compliant, high-performing, and compatible products.

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| General  |                                    |
|--|------------------------------------|
| Net Width (mm)                                 | 35                                 |
| Net Height (mm)                                | 110                                |
| Net Depth (mm)                                 | 101                                |
| Net Weight (g)                                 | 160                                |
| Packed Width (mm)                              | 14                                 |
| Packed Height (mm)                             | 6                                  |
| Packed Depth (mm)                              | 17                                 |
| Packed Weight (g)                              | 220                                |
| Operating Temperature °C Min                   | -25                                |
| Operating Temperature °C Max                   | 60                                 |
| Storage Temperature °C Min                     | -40                                |
| Storage Temperature °C Max                     | 85                                 |
| Current Consumption Type Value at Vcc Nom (mA) | 150mA @ 24V DC                     |
| Current Consumption Max value at Vcc nom (mA)  | 300mA @ 24V DC                     |
| Input Voltage (V)                              | 24V DC (-15% to +20%)              |
| Power Connector                                | 3-pin, 5.08 Phoenix plug connector |
| Isolation                                      | TRUE                               |
| Mounting                                       | DIN-rail (EN 50022 standard)       |
| Housing Materials                              | Plastic                            |

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## General

|                    |           |
|--------------------|-----------|
| Packaging Material | Cardboard |
|--------------------|-----------|

## Identification and Status

|   |                                   |
|---|-----------------------------------|
| Product ID                                  | AB9007-B                          |
| Successor                                   | ABC3213-A, ABC3290-A, ABC3290EX-A |
| Country of Origin                           | Sweden                            |
| HS Code                                     | 8517620000                        |
| Export Control Classification Number (ECCN) | 5A991.b.1                         |
| Supply Risk Factor ERP                      | Used in Volume 01                 |

## Physical Features

|                             |                 |
|-----------------------------|-----------------|
| Connectors / Input / Output | 2xRJ45, 2x RJ45 |
|-----------------------------|-----------------|

## Modbus-TCP Features

|                                    |  |
|------------------------------------|--|
| Modbus-TCP Mode                    | Master / Client  |
| Modbus-TCP Supported Functionality | Modbus specification V1.1B; Endian Conversion (Byte swap); LiveList; ControlStatus |
| Modbus-TCP No. Of Servers          | 64 transactions  |
| Modbus-TCP Functions Supported     | 1, 2, 3, 4, 5, 6, 15, 16, 23   |
| Modbus-TCP Bandwidth               | 10/100 Mbit/s down to 10ms   |
| Modbus-TCP Input Data Size         | 256 bytes  |
| Modbus-TCP Output Data Size        | 256 bytes  |

## PROFINET Features

|                                  |  |
|----------------------------------|--|
| PROFINET Mode                    | Slave  |
| PROFINET Supported Functionality | Soft Real-Time (RT); Max 64 slots / 8 sub-slot |
| PROFINET Configuration File      | GSDML available                                |
| PROFINET Bandwidth               | 100Mbit full duplex down to 2ms                |

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## PROFINET Features

|                                  |           |
|----------------------------------|-----------|
| <b>PROFINET Input Data Size</b>  | 256 bytes |
| <b>PROFINET Output Data Size</b> | 256 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, UL 61010-2-201, CSA C22.2 NO. 61010-1-12, CSA C22.2 NO. 61010-2-201:14; E203225: Haz.Loc CL I DIV2 GP A,B,C,D T4, ANSI/ISA 12.12.01, ANSI/ISA 12.12.01 |
| <b>ATEX Information</b>    | II 3 G Ex nA IIC T4 Gc, EN IEC 60079-0; EN 60079-15   |
| <b>Environment</b>         | EN 61000-6-4, EN 55016-2-3 Class A, EN 61000-6-2, 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   |