

## Anybus X-gateway – PROFINET-IO Device – Modbus RTU Slave

Item number: AB7659-F

The Anybus X-gateway PROFINET-IO Device to Modbus RTU Slave enables you to connect any PROFINET-IO system to any Modbus RTU 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 PROFINET-IO and Modbus RTU control systems*

## 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.
- ✓ **Trusted partner**  
Anybus has a long history of working with all the major network organizations to ensure compliant, high-performing, and compatible products.
- ✓ **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.
- ✓ **Life cycle management**  
HMS maintains every part of the gateway, including network updates, throughout the product's lifecycle.
- ✓

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## General

|                                                   |                                    |
|---------------------------------------------------|------------------------------------|
| Net Width (mm)                                    | 44                                 |
| Net Height (mm)                                   | 127                                |
| Net Depth (mm)                                    | 114                                |
| Net Weight (g)                                    | 420                                |
| Packed Width (mm)                                 | 155                                |
| Packed Height (mm)                                | 75                                 |
| Packed Depth (mm)                                 | 200                                |
| Packed Weight (g)                                 | 600                                |
| Operating Temperature °C Min                      | -25                                |
| Operating Temperature °C Max                      | 65                                 |
| Storage Temperature °C Min                        | -40                                |
| Storage Temperature °C Max                        | 85                                 |
| Current Consumption Type<br>Value at Vcc Nom (mA) | 200mA @ 24V DC                     |
| Current Consumption Max<br>value at Vcc nom (mA)  | 400mA @ 24V DC                     |
| Input Voltage (V)                                 | 24V DC (-20% to +20%)              |
| Power Connector                                   | 2-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  | Aluminium, Plastic           |
| Packaging Material | Cardboard                    |

## Identification and Status

|                                             |            |
|---------------------------------------------|------------|
| Product ID                                  | AB7659-F   |
| Successor                                   | ABC4027-A  |
| Country of Origin                           | Sweden     |
| HS Code                                     | 8517620000 |
| Dual Usage                                  | No         |
| Export Control Classification Number (ECCN) | 5A991.b.1  |

## Physical Features

|                             |                                                   |
|-----------------------------|---------------------------------------------------|
| Connectors / Input / Output | 2x RJ45, 1x D-sub 9-pin female, USB-B Config port |
| DIP & Rotary Switches       | dip switch Termination and configuraiton          |
| Contains Battery            | No                                                |

## Modbus-RTU Features

|                                    |                                                                                                               |
|------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Modbus-RTU Mode                    | Slave mode                                                                                                    |
| Modbus-RTU Supported Functionality | Modbus-RTU compliant passive slave node operation; 256 Modbus registers in each direction; Modbus diagnostics |
| Modbus-RTU Functions Supported     | 1, 2, 3, 4, 5, 6, 15, 16, 22, 23                                                                              |
| Modbus-RTU Baud Rate               | 1200bps - 57600bps                                                                                            |
| Modbus-RTU Input Data Size         | 512 bytes                                                                                                     |
| Modbus-RTU Output Data Size        | 512 bytes                                                                                                     |

## PROFINET Features

|               |       |
|---------------|-------|
| PROFINET Mode | Slave |
|---------------|-------|

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## PROFINET Features

|                                         |                                                                                    |
|-----------------------------------------|------------------------------------------------------------------------------------|
| <b>PROFINET Supported Functionality</b> | Soft Real-Time (RT); Max 64 slots / 1 sub-slot; DCP support; Acyclic Data exchange |
| <b>PROFINET Configuration File</b>      | GSDML available                                                                    |
| <b>PROFINET Bandwidth</b>               | 10/100Mbit full/half duplex down to 1ms                                            |
| <b>PROFINET Input Data Size</b>         | 512 bytes                                                                          |
| <b>PROFINET Output Data Size</b>        | 512 bytes                                                                          |

## Certifications and Standards

|                                   |                                                                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protection Class IP</b>        | IP20                                                                                                                                     |
| <b>RoHS Compliant</b>             | Yes                                                                                                                                      |
| <b>Recycle / Disposal</b>         | TRUE                                                                                                                                     |
| <b>CE</b>                         | Yes                                                                                                                                      |
| <b>FCC</b>                        | No                                                                                                                                       |
| <b>UL</b>                         | Yes                                                                                                                                      |
| <b>UL Information</b>             | E214107: Ord.Loc UL508, CSA C22.2 NO. 142                                                                                                |
| <b>EMC</b>                        | Yes                                                                                                                                      |
| <b>Environment</b>                | EN 61000-6-4, EN 55016-2-3 Class A, EN 55022 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>Waste Certification (WEEE)</b> | Yes                                                                                                                                      |
| <b>WEEE Category</b>              | IT and telecommunications equipment                                                                                                      |