**Anybus®**
BY HMS NETWORKS

# Anybus X-gateway - AS-Interface Master - PROFINET-IO Device

The Anybus X-gateway allows you to seamlessly inter-connect PLC control systems and their connected devices between AS-Interface and PROFINET networks.

**FAST COPYING OF I/O DATA**

The X-gateways primary function is with the fast transfer of cyclic I/O data between the two networks. This offloads your PLC from working with additional calculations. The gateway acts as a Master on AS-Interface network and a Device/Slave on the PROFINET network. The data transmission is completely transparent with a maximum data capacity of 512 bytes in each direction.

**EASY CONFIGURATION - NO PROGRAMMING REQUIRED!**

The connection between the two networks is quickly set up in the Anybus Configuration Manager software, included with the X-gateway. No programming skills are needed to set up the X-gateway. As factory default the X-gateways have a pre-defined I/O size of 20 bytes I/O.

## Features and benefits

- Fast copying of cyclic I/O data between the two networks (10-15 ms)
- Proven and tested with all PLC manufacturers
- Powerful Master interface eliminates the need for a PLC controller on the AS-Interface network
- Supports up to a maximum of 512 bytes of Input and Output data in each direction
- Possibility to build web pages displaying and controlling a factory floor process with data from the other connected network
- Fast, dynamic transfer of fieldbus data to e.g. SCADA/HMI/Enterprise level systems based on Microsoft Windows, via the included Anybus OPC server
- Optional control status information added to I/O data for diagnostic purposes
- Robust stand-alone housing for use in harsh industrial environments
- Global free technical support and consultancy

## AS-Interface Master Interface

An Anybus X-gateway with an integrated AS-Interface M4 Master interface can be used when there is no existing AS-Interface controlling PLC.

- Complies to AS-Interface 3.0 specification
- Controls up to 62 AS-Interface slaves
- Optional Live List of the active status of the connected slaves
- Supports Combined Transaction Types 1, 2, 3, 4 and 51
- Up to 248 digital inputs and 186 digital outputs
- Up to 124 (16-bit) analog values
- S-Interface baudrate 167 kbit/s
- ynchronous I/O (optional)

- On-board configuration button
- 1x D-sub 9-pin male connector (RS-232) for terminal-based monitoring and configuration
- 2x 2-pin 5,08 Phoenix plug connectors

# PROFINET I/O Device/Slave interface

PROFINET IO Device/Slave settings can be made by importing the provided .GSDML file into engineering tool of the controlling PLC.

- Complete PROFINET-IO Soft-Real-Time (RT) communication
- Max 512 bytes of Input and 512 bytes of Output data
- Up to 64 slots / 1 sub slot
- Cyclic data exchange (10 ms cycle time)
- Acyclic Data exchange (Record Data Requests)
- Baud rate 100 Mbit/s
- Integrated FTP server provides easy file management using standard FTP clients
- Web server with dynamic data capability and Server Side Include (SSI) capability
- Email client with dynamic data capability and Event-triggered email handling
- TCP/IP Configuration via DCP (Discovery and Configuration Protocol)
- PROFINET uplink configuration via web interface or .GSDML file
- 1x RJ45 network connector

**TECHNICAL SPECIFICATIONS**

| | |
|---|---|
| **Dimensions (L•W•H)** | 114 x 44 x 127mm or 4,49 x 1,73 x 5,00" |
| **Weight** | 400g or 0,880 lbs |
| **Operating temperature** | -25 to +65 °C  or  -13 to +149 °F |
| **Storage temperature** | -40 to +85 °C  or  -40 to +185 °F |
| **Power supply** | 24 VDC +/- 20% via 2-pole 5.08 mm Phoenix pluggable screw connector |
| **Current consumption** | max. 400mA (Typical 200mA) |
| **Enclosure material** | Aluminium and plastic |
| **Installation position** | Vertical / Flat* |
| **Galvanic isolation** | YES, on both BUS/Ethernet side |
| **Mechanical rating** | IP20, NEMA rating 1 |
| **Mounting** | DIN-rail (EN 50022 standard) |
| **I/O configuration** | via USB port with Anybus Configuration Manager software |
| **Certifications** | CE, $_C$UL$_{US}$, RoHS |

| File | Version | Size | Read online |
|---|---|---|---|

Ordering information

| **Order Code** | AB7648 |
|---|---|

| Included components | Gateway |
|---|---|
| | Quick start documentation |
| | USB configuration cable |
| | Power supply **not** included |
| | |
| | Configuration and Anybus OPC server software is available for download. |

3 year guarantee. For purchasing instructions and terms and conditions, see: <u>How to buy</u>