



## Anybus X-gateway - EtherCAT Slave - PROFINET-IRT Device

The Anybus X-gateway allows you to seamlessly inter-connect PLC control systems and their connected devices between EtherCAT and PROFINET-IRT 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 Slave/Device on both networks. 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
- 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

## EtherCAT Slave interface

EtherCAT Slave settings can be made by importing the provided .XML file into engineering tool of the controlling PLC.

- Complete EtherCAT slave according to DS 301 V4.022
- Supports CANopen over EtherCAT
- Max 512 bytes of Input and 512 bytes of Output data (PDO + SDO)
- Baudrate 100 Mbit/s full duplex
- 4 FMMU channels (can be used freely by the EtherCAT master for any purpose.)
- 4 SM channels
- Bit-oriented FMMU operation
  - Position addressing, node addressing and logical addressing
  - DI Watchdog

- Output I/O Sync Manager Watchdog
- Integrated switch allowing for a daisy-chain topology
- 2x RJ45 EtherCAT connectors

## PROFINET IRT Device/Slave interface

PROFINET IRT Device/Slave settings can be made either via the built-in web interface, or by importing the provided .GSDML file into engineering tool of the controlling PLC.

- Complete PROFINET RT and IRT functionality specification 2.3
- Conformance tested supporting Class A, B and C
- Max 512 bytes of Input and 512 bytes of Output data
- Baud rate 10/100 Mbit/s Isochronous cycle times 0.25 to 4 ms (25 Us increments)
- SNMP-MIBII support
- TCP/IP Configuration via DCP (Discovery and Configuration Protocol)
- LLDP (Linked Layer Discovery Protocol)
- Support for I&M (Identification & Maintenance)
- PROFINET uplink configuration via .GSDML file
- Dual port cut-through switch
- Dual RJ-45 ports available simultaneously
- PROFINET Asset Management

### TECHNICAL SPECIFICATIONS

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

File

Version

Size

Read online


 dering information

<b>Order Code</b>	AB7506
<b>Included components</b>	Gateway Quick start documentation USB configuration cable Power supply <b>not</b> included  Configuration and Anybus OPC server software is available for download

3 year guarantee. For purchasing instructions and terms and conditions, see: [How to buy](#)

---

Copyright © 2020 HMS Industrial Networks - All rights reserved.