Anybus X-gateway - Modbus Plus Slave - PROFINET-IRT Device

The Anybus X-gateway allows you to seamlessly inter-connect/extend PLC control systems and their connected devices between a Modbus Plus and a PROFINET-IRT network.

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, providing a simple network extension. The data transmission between the two networks 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

Modbus Plus Slave Interface

Modbus Plus address settings made via on-board DIP switches
- Complete Modbus Plus slave functionality
- Up to 32 words of global (cyclic I/O) data in each direction
- Global Data Base Transaction, Point-to-Point commands, Read holding registers, Preset single register
- Point-to-point parameter data (up to 125 words)
- Onboard Node ID and Source ID switches
- Modbus Plus baudrate 1 Mbit/s
- x D-sub 9-pin female network connector

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

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: AB7518

INCLUDED COMPONENTS:
Quick start documentation

- USB configuration cable

- Configuration software available for download

- Anybus OPC server software available for download

- (Power supply not included)

GUARANTEE: 3 years

For purchasing instructions and terms and conditions, see: $\rightarrow$ How to buy