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

The Anybus X-gateway allows you to seamlessly inter-connect PLC control systems and their connected devices between Modbus TCP 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 Device on the PROFINET-IO network and as a full Master/Client on the Modbus TCP network. The data transmission between the two networks is completely transparent with a maximum I/O data capacity of 256 bytes in each direction.

EASY CONFIGURATION - NO PROGRAMMING REQUIRED!

Configuration is made via Ethernet and a built-in web page. The configuration page is used to configure Ethernet TCP/IP settings, Modbus TCP client/server configuration and I/O data size transfer between Modbus TCP and the chosen network.

Features and benefits

- Fast copying of cyclic I/O data between a Modbus TCP and a PROFINET network (5 ms)
- Allows for the integration of Modbus TCP based server/slave devices into other PLC control systems
- Fulll Modbus TCP Client/Master functionality, eliminates the need for an PLC controller on the Modbus TCP network
- Connects up to 64 Modbus Servers/Slave devices
- Max I/O data capacity of 256 bytes in each direction
- Possibility to build web pages displaying and controlling a factory floor process with data from the other connected network
- SD memory card slot allows for backup, configuration and easy module replacement
- Robust stand-alone housing for use in harsh industrial environments
- Global free technical support and consultancy

Modbus TCP Client/Master interface

Modbus TCP Client and Server setup is made via an included visual web configuration interface without the need for any programming.
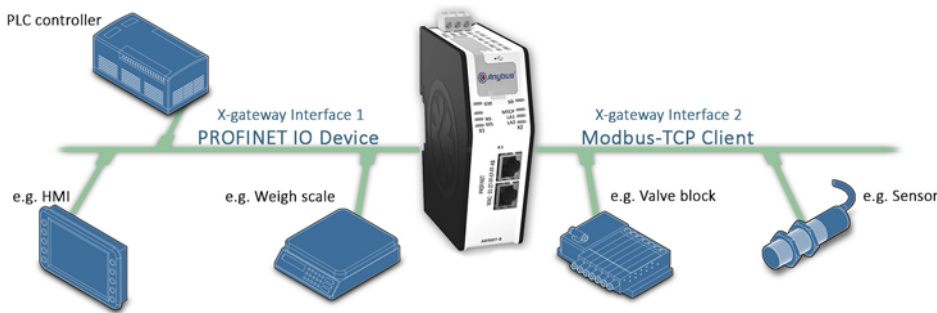
- Modbus TCP Client functionality according to Modbus specification V1.1B
- Support for Modbus TCP functions 1, 2, 3, 4, 5, 6, 15, 16, 23
- Connects up to 64 Modbus TCP servers/slaves
- Supports up to max 256 bytes of Input and 256 bytes of Output data
- 10/100Mbit operation in full or half-duplex
- 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
- Downlink Live List providing Modbus-TCP transaction status to uplink PLC
- Control and Status words for downlink network control/status
- Individual Modbus TCP server port number setting
- Byte Swap feature

- Full Modbus address range (1-65536)
- Dual Modbus TCP RJ-45 ports available simultaneously

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	AB9007
Included components	Gateway Quick start documentation Connector terminals Power supply **not** included PLEASE NOTE: SD-card not included. Configuration and Anybus OPC server software is available for download.
Accessories	021520: Wall mount option 021530: SD-memory card (industrial grade)

3 year guarantee. For purchasing instructions and terms and conditions, see: **How to buy**