Anybus X-gateway - Modbus TCP Client - Modbus TCP Server

The Anybus X-gateway provides a seamless connection between a Modbus TCP upper network and a secondary Modbus TCP sub-network. This makes it possible to extend a Modbus TCP network and devices without a secondary PLC system.

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 Server on the upper Modbus TCP network and as a full Master/Client on the other side. 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 two Modbus TCP networks (5 ms)
- Allows for the integration of Modbus TCP based server/slave devices into another PLC control systems
- Fulll Modbus TCP Client/Master functionality, eliminates the need for an additional 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.
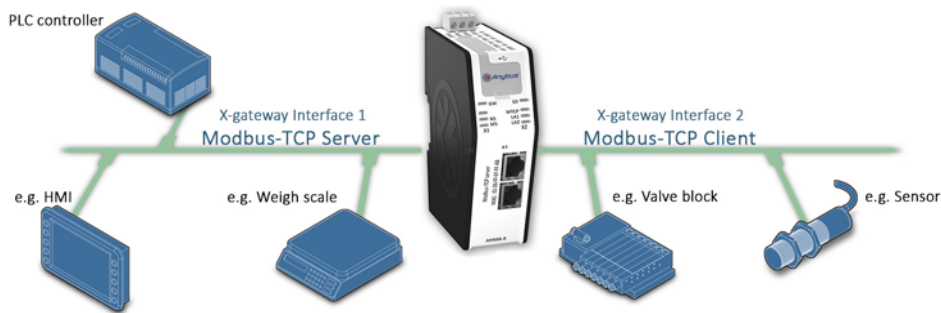- Modbus TCP Client functionality according to Modbus specification V1.1B
- Support for Modbus TCP functions 1, 2, 3, 4, 5, 6, 15, 16, 23
- Connects up to 64 Modbus TCP servers/slaves
- Supports up to max 256 bytes of Input and 256 bytes of Output data
- 10/100Mbit operation in full or half-duplex
- 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

Modbus TCP Slave interface

Modbus TCP Slave settings can be made either via the built-in web interface, or by importing the provided .EDS file into engineering tool of the controlling PLC.

- Conforms to Modbus TCP v1.0
- Modbus TCP class 0, class 1 and partially class 2 slave functionality
- 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
- Per-user security framework
- Quality of Service (QoS) available
- DNS Capability
- TCP/IP settings via DHCP/ARP/Anybus IPconfig (HICP)
- Integrated switch allowing for a daisy-chain topology
- 2x RJ-45 ports available simultaneously.

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	AB9008
Included components	Gateway Quick start documentation Connector terminals Power supply **not** included PLEASE NOTE: SD-card not included. Configuration 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