



## 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
- Full 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

<b>Dimensions (L•W•H)</b>	110 x 35 x 101 mm or 4,33 x 1,38 x 3,98"	
<b>Weight</b>	160g or 0,35 lbs	
<b>Operating temperature</b>	-25 to +70 °C or -13 to +158 °F	
<b>Storage temperature</b>	-40 to +85 °C or -40 to +185 °F	
<b>Power supply</b>	24 VDC +/- 10 %	
<b>Current consumption</b>	Typical 150 mA	
<b>USB port</b>	For firmware upgrades	

<b>SD memory card slot</b>	For backup, configuration and easy replacement	
<b>Modbus TCP connector</b>	2x RJ45	
<b>Fieldbus/Ethernet connector</b>	(See the secondary network interface details above)	
<b>Galvanic isolation</b>	On both BUS/Ethernet side	
<b>Mechanical rating</b>	IP20, NEMA rating 1	
<b>Mounting</b>	DIN-rail (EN 50022 standard) or Wall Mount (optional)	
<b>Certifications</b>	CE, $cUL_{US}$ , ATEX (zone 2), $cUL_{US}$ Haz.Loc (class 1 div 2)	

File	Version	Size	Read online
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## Ordering information

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

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

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