

Anybus X-gateway – CANopen Master – Modbus TCP Server

Item number: AB7308-B

The Anybus X-gateway CANopen Master to Modbus TCP Server enables you to connect any CANopen Master device or equipment to Modbus TCP control systems. It can be used when there is no existing CANopen control system. Anybus gateways ensure reliable, secure, high-speed data transfers between different industrial networks while being easy to use.



A protocol converter that connects CANopen devices to Modbus TCP PLCs

Features and benefits

- ✓ **Reach new markets**
Target new markets using different protocols without needing to change your hardware or software, thereby decreasing your time to market and development costs.
- ✓ **Slim hardware design**
The gateway is designed for IP20 and DIN-rail mounting, enabling you to install it with ease, close to connected devices, thereby reducing wiring requirements.
- ✓ **Easy configuration – No programming required!**
Quickly establish the connection between the two networks with the included Anybus Configuration Manager software. No programming skills are required for the setup process.
- ✓ **Powerful**
Up to 512 bytes of Input and Output data in each direction.
- ✓ **Life cycle management**
HMS maintains every part of the gateway, including network updates, throughout the product's lifecycle.
- ✓ **No PLC card slot needed**
The gateway does not use a card slot in the control system, leaving room for other equipment.
- ✓ **3-year warranty**
The gateway is designed to be robust and long-lasting. A 3-year guarantee is provided.
- ✓ **Increased PLC performance**
The gateway allows for fast transfer of cyclic I/O data between the two networks, offloading your PLC from working with additional calculations.
- ✓ **Trusted partner**
Anybus has a long history of working with all the major network organizations to ensure compliant, high-performing, and compatible products.

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| General | |
|--|------------------------------------|
| Net Width (mm) | 27 |
| Net Height (mm) | 120 |
| Net Depth (mm) | 75 |
| Net Weight (g) | 140 |
| Packed Width (mm) | 14 |
| Packed Height (mm) | 6 |
| Packed Depth (mm) | 17 |
| Packed Weight (g) | 205 |
| Operating Temperature °C Min | -25 |
| Operating Temperature °C Max | 55 |
| Storage Temperature °C Min | -40 |
| Storage Temperature °C Max | 85 |
| Current Consumption Type Value at Vcc Nom (mA) | 100mA @ 24V DC |
| Current Consumption Max value at Vcc nom (mA) | 250mA @ 24V DC |
| Input Voltage (V) | 24V DC (-10% to +10%) |
| Power Connector | 2-pin, 5.08 Phoenix plug connector |
| Isolation | TRUE |
| Mounting | DIN-rail (EN 50022 standard) |
| Housing Materials | Plastic |

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General

| | |
|--------------------|-----------|
| Packaging Material | Cardboard |
|--------------------|-----------|

Identification and Status

| | |
|---|-------------------|
| Product ID | AB7308-B |
| Country of Origin | Sweden |
| HS Code | 8517620000 |
| Export Control Classification Number (ECCN) | 5A991.b.1 |
| Supply Risk Factor ERP | Used in Volume 01 |

Physical Features

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|-----------------------------|----------------------------------|
| Connectors / Input / Output | 1x D-sub 9-pin male, 2xRJ45 |
| DIP & Rotary Switches | 3x Rotary CAN Address + Baudrate |

CANopen Features

| | |
|---------------------------------|---|
| CANopen Mode | Master mode, Slave mode |
| CANopen Baud Rate | 20 kbit/s - 1000 kbit/s |
| CANopen Supported Functionality | PDO, SDO; DS301 4.0.2; DSP302; EMCY; LSS; NMT; CMT; SYNC; Heart beat; Node guarding |
| CANopen No. Of Slaves | up to 126 |
| CANopen Input Data Size | 510 bytes |
| CANopen Output Data Size | 510 bytes |

Modbus-TCP Features

| | |
|------------------------------------|---|
| Modbus-TCP Mode | Slave / Server |
| Modbus-TCP Supported Functionality | Modbus specification V1.0; Daisy chaining; QoS; Modbus TCP class 0, class 1 and partially class 2 slave functionality |
| Modbus-TCP Bandwidth | 10/100 Mbit/s |
| Modbus-TCP Input Data Size | 512 bytes |
| Modbus-TCP Output Data Size | 512 bytes |

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Certifications and Standards

| | |
|----------------------------|--|
| Protection Class IP | IP20 |
| Recycle / Disposal | TRUE |
| UL Information | E214107: Ord.Loc UL508, CSA C22.2 NO. 142; E203225: Haz.Loc CL I DIV2 GP A,B,C,D T4, ANSI/ISA 12.12.01, CAN/CSA C22.2 No. 213, CAN/CSA C22.2 No. 142 |
| ATEX Information | II 3 G Ex nA ic IIC T4 Gc, EN 60079-0; EN60079-15; EN60079-11 |
| Environment | EN 61000-6-4, EN 55016-2-3 Class A, EN 55022 Class A, EN 61000-6-2, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6 |
| WEEE Category | IT and telecommunications equipment |