

## Anybus X-gateway - CANopen Slave - Modbus TCP Server

Item number: AB7640-F

The Anybus X-gateway CANopen Slave to Modbus TCP Server enables you to connect any CANopen control system to any Modbus TCP 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 and Modbus TCP control systems*

### 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.
- ✓ **Trusted partner**  
Anybus has a long history of working with all the major network organizations to ensure compliant, high-performing, and compatible products.
- ✓ **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.
- ✓ **Life cycle management**  
HMS maintains every part of the gateway, including network updates, throughout the product's lifecycle.
- ✓

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## General

|                                                |                                    |
|------------------------------------------------|------------------------------------|
| Net Width (mm)                                 | 44                                 |
| Net Height (mm)                                | 127                                |
| Net Depth (mm)                                 | 114                                |
| Net Weight (g)                                 | 420                                |
| Packed Width (mm)                              | 155                                |
| Packed Height (mm)                             | 75                                 |
| Packed Depth (mm)                              | 200                                |
| Packed Weight (g)                              | 600                                |
| Operating Temperature °C Min                   | -25                                |
| Operating Temperature °C Max                   | 65                                 |
| Storage Temperature °C Min                     | -40                                |
| Storage Temperature °C Max                     | 85                                 |
| Current Consumption Type Value at Vcc Nom (mA) | 200mA @ 24V DC                     |
| Current Consumption Max value at Vcc nom (mA)  | 400mA @ 24V DC                     |
| Input Voltage (V)                              | 24V DC (-20% to +20%)              |
| Power Connector                                | 2-pin, 5.08 Phoenix plug connector |
| Reverse Polarity Protection                    | Yes                                |
| Short Circuit Protection                       | Yes                                |
| Isolation                                      | TRUE                               |

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## General

|                    |                              |
|--------------------|------------------------------|
| Mounting           | DIN-rail (EN 50022 standard) |
| Housing Materials  | Aluminium, Plastic           |
| Packaging Material | Cardboard                    |

## Identification and Status

|                   |            |
|-------------------|------------|
| Product ID        | AB7640-F   |
| Country of Origin | Sweden     |
| HS Code           | 8517620000 |
| Dual Usage        | No         |

## Physical Features

|                             |                                                |
|-----------------------------|------------------------------------------------|
| Connectors / Input / Output | 2xRJ45, 1x D-sub 9-pin male, USB-B Config port |
| DIP & Rotary Switches       | 3x Rotary CAN Address + Baudrate               |
| Contains Battery            | No                                             |

## CANopen Features

|                                 |                         |
|---------------------------------|-------------------------|
| CANopen Mode                    | Slave mode              |
| CANopen Baud Rate               | 10 kbit/s - 1000 kbit/s |
| CANopen Supported Functionality | PDO, SDO;DS301 v4.02    |
| CANopen Configuration File      | EDS available           |
| CANopen Input Data Size         | 512 bytes               |
| CANopen Output Data Size        | 512 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                                                                                                         |

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## Modbus-TCP Features

|                             |           |
|-----------------------------|-----------|
| Modbus-TCP Input Data Size  | 512 bytes |
| Modbus-TCP Output Data Size | 512 bytes |

## Certifications and Standards

|                     |                                                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Protection Class IP | IP20                                                                                                                                     |
| RoHS Compliant      | Yes                                                                                                                                      |
| Recycle / Disposal  | TRUE                                                                                                                                     |
| UL Information      | E214107: Ord.Loc UL508, CSA C22.2 NO. 142                                                                                                |
| 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                                                                                                      |