The Anybus X-gateway CANopen makes it possible to integrate CANopen devices into any other PLC system. The X-gateway CANopen series provide CANopen Master (Manager) /Slave connectivity to all popular fieldbus and industrial Ethernet networks. The gateways’ high reliability and flexibility make them an indispensible connectivity tool.

**Features and Benefits**

- Provides CANopen Master or Slave functionality on one side, and fieldbus/Ethernet slave functionality on the other side
- Allows transparent transfer of I/O data between CANopen and another network
- CANopen master functionality allows connection of up to 126 CANopen slaves
- Dual port Ethernet with switch functionality for EtherNet/IP, Modbus-TCP and PROFINET IRT versions
- Ethernet versions with IT functions such as dynamic Web server, supporting downloadable customer specific web pages
- CANopen NMT Master and Configuration Manager functionality

**CANopen Configuration**

The X-gateway CANopen can be configurared with the “Anybus Configuration Manager CANopen” which is included in the price of the X-gateway and can be downloaded from [www.anybus.com](http://www.anybus.com).

The PC connect to the CANopen network via a USB-CAN adapter (ordered separately)

In addition, any standard CANopen configuration tool can be used to configure the CANopen interface.

The uplink fieldbus or Ethernet slave interface is configured with a standard device description file (GSD/EDS) and the standard engineering tool of the PLC. No programming required.

**Accessories:**

A CAN-to-USB configuration adapter including software and documentation on CD can be ordered separately.

Anybus Configuration Manager CANopen Configuration Kit 021670
Includes: License, CD, USB-CAN adapter

**Typical Industries**

- Control Network - e.g. PROFINET
- Network interface 1: PROFINET Adapter
- Network interface 2: CANopen Master

- Device level with CANopen slaves

**APPLICATION EXAMPLES**

**Control Network - e.g. PROFINET**

Network interface 1: PROFINET Adapter
Network interface 2: CANopen Master

**Device level with CANopen slaves**

**CANopen Configuration**

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### TECHNICAL SPECIFICATIONS

#### CANopen

- **Max amount of slaves**: 126
- **CANopen network connector**: DSUB9M
- **Baud rate**: Up to 1 Mbit/s
- **I/O data**: 128 PDOs Receive/128 PDOs Transmit, 510 bytes IN/OUT

#### Hardware

- **Weight**: 150 g, 0.33 lb
- **Dimensions (L•W•H)**: 120•75•27 mm, 4.72•2.95•1.06"
- **Protection class**: IP20, NEMA rating 1
- **Enclosure material**: PC ABS, UL 94
- **Installation position**: Any
- **Mounting**: DIN rail (35•7.5/15)

#### Environmental

- **Operating temp**: -25 to 55 °C, -13 to 131 °F
- **Storage temp**: 40 to 85 °C, -40 to 185 °F
- **Relative Humidity**: 5-95 % non condensing
- **Installation altitude**: Up to 2 000 m

#### Immunity and Emission for Industrial Environment

- **Electromagnetic-RF fields**:
  - 10 V/m 80 MHz - 1 GHz
  - 3 V/m 1.4 GHz - 2.0 GHz
  - 1 V/m 2.0 GHz - 2.7 GHz

- **Fast Transients**: +/- 1 kV
- **Surge protection**: +/- 1 kV
- **RF conducted interference**: 10 V/m
- **Emission (at 10 m)**:
  - 40 dB 30 MHz - 230 MHz
  - 47 dB 30 MHz - 1 GHz

### Single Pack Accessories

- Resource CD
- Installation sheet
- DSUB with screw terminals for subnetwork

### NETWORK SPECIFIC FEATURES

#### SLAVE / ADAPTER / SERVER / DEVICE

**CANopen**

- **Network connector**: DSUB9M
- **Baud rate**: Up to 1 Mbit/s
- **I/O data**: 510 bytes IN/OUT

**ControlNet**

- **Network connector**: RJ45 (NAP)
- **Baud rate**: Up to 5 Mbit/s
- **I/O data**: 450 byte IN/OUT

**DeviceNet**

- **Network connector**: RJ45
- **Baud rate**: Up to 10/100 Mbit/s
- **I/O data**: 510 byte IN/OUT

**EtherCAT**

- **Network connector**: 2*RJ45
- **Baud rate**: 100 Mbit/s
- **I/O data**: 510 byte IN/OUT

**EtherNet/IP**

- **Network connector**: 2*RJ45
- **Baud rate**: 10/100 Mbit/s
- **I/O data**: 510 byte IN/OUT

**Profinet IO**

- **Network connector**: RJ45
- **Baud rate**: 100 Mbit/s
- **I/O data**: 510 byte IN/OUT

**Modbus RTU**

- **Network connector**: RJ45
- **Baud rate**: 1,2-57,6 kbit/s
- **I/O data**: 510 byte IN/OUT

**Modbus-TCP**

- **Network connector**: RJ45
- **Baud rate**: 10/100 Mbit/s
- **I/O data**: 510 byte IN/OUT

**PROFINET IRT**

- **Network connector**: RJ45
- **Baud rate**: 100 Mbit/s
- **I/O data**: 220 byte IN/OUT

### Twincomm

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