![HMS logo]

![Anybus logo] Anybus®
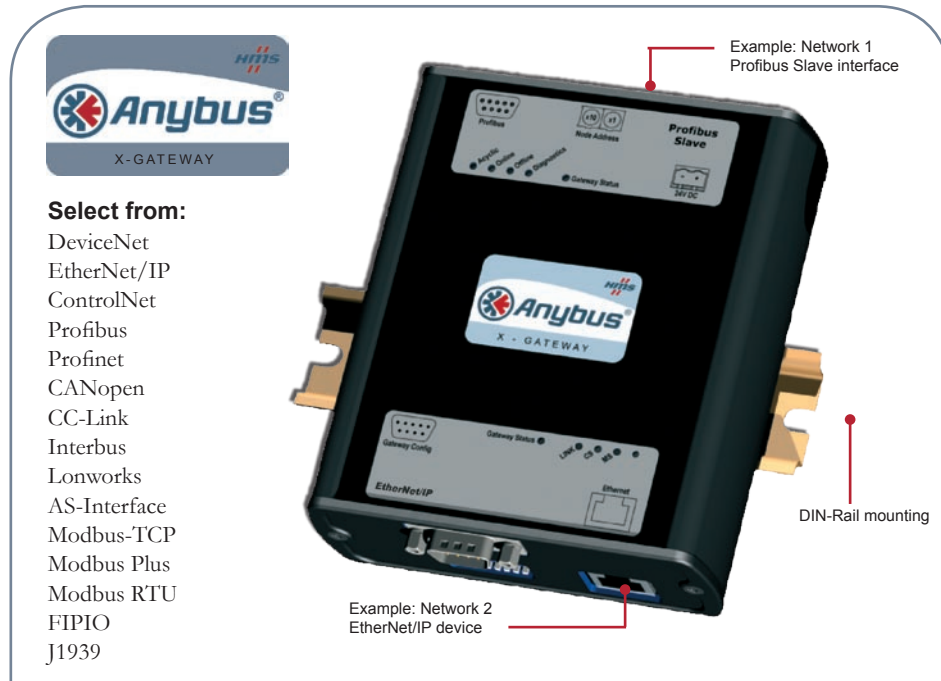
CIP-Connectivity Products

Anybus Communicator and X-gateways bring different networks safely together! Proven Anybus technology connects your devices or your network to Allen Bradley or to other automation systems and PLC's.

▶ DeviceNet
▶ EtherNet/IP
▶ ControlNet
and many more..

DeviceNet™   **ControlNet™** International   **EtherNet/IP™**

ENCOMPASS ROCKWELL AUTOMATION
GLOBAL PARTNER

Anybus X-gateways

Connect Allen Bradley PLC's and networks with almost any other leading PLC system

The Anybus X-gateway family is a product line consisting of 170 different products aimed to connect almost every possible combination of TWO industrial networks, without any need for programming. The product family supports 17 different industrial networks and provides a simple and reliable way to bridge between different PLC worlds.

Example: Network 1
Profibus Slave interface

DIN-Rail mounting

Example: Network 2
EtherNet/IP device

Select from:
DeviceNet
EtherNet/IP
ControlNet
Profibus
Profinet
CANopen
CC-Link
Interbus
Lonworks
AS-Interface
Modbus-TCP
Modbus Plus
Modbus RTU
FIPIO
J1939

KEY FEATURES

- Connects Allen Bradley PLC's with other leading PLC's and networks

- Simple way to transmit I/O data between two Industrial Networks

- Fast I/O data transfer with average timing between networks: 10 - 15 ms

- Instant connectivity - No programming required

- Robust stand alone product for harsh industrial environments

- Over 170 possible combinations including Master (Scanner, Client, Controller), and Slave (Adapter, Server, Device) functionality

- Tailor made for brand labelling and customization

- "IT functions" such as Web server with SSI support, FTP server and File access/security functionality included on all versions with Ethernet

- OPC Server for all Anybus X-gateway versions supporting Ethernet

Typical uses within a factory network

SLAVE TO SCANNER

In this example, the X-gateway is a Slave/Adapter on the Profibus network and a Master/Scanner on the DeviceNet network

PLC

Network Device

X-gateway Profibus Adapter - DeviceNet Scanner

Network Device

Network Device

ADAPTER TO MASTER

In this example, the X-gateway is a Slave/Adapter on the EtherNet/IP network and Profibus-DPV1 Master on the Profibus side

PLC

Network Device

X-gateway EtherNet/IP Adapter - Profibus DPV1 Master

Profibus
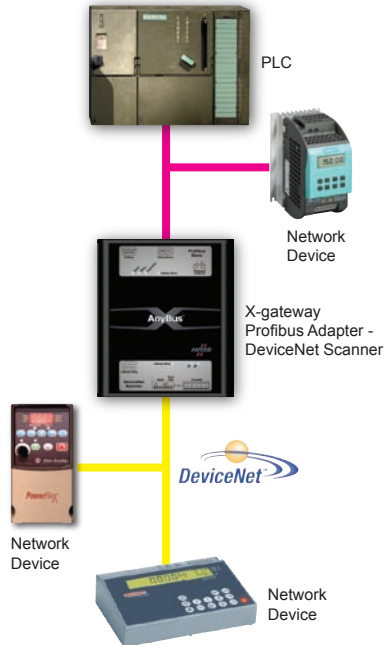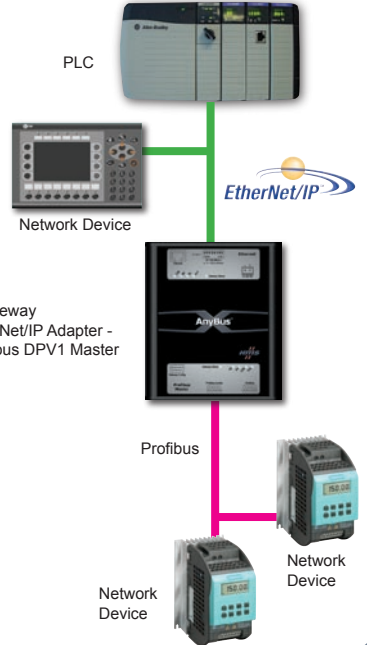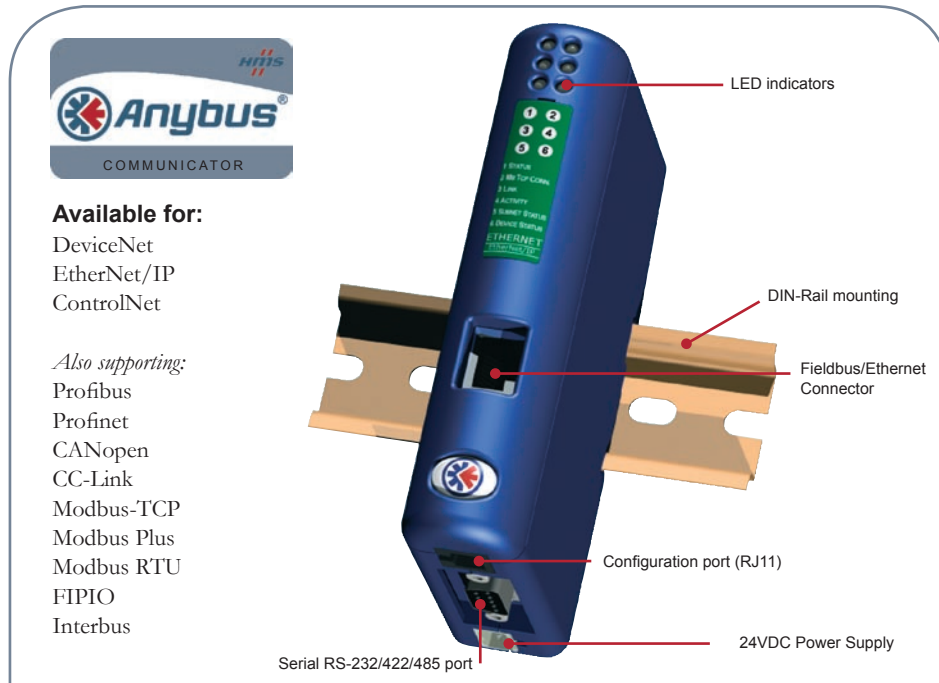
Network Device

Network Device

TECHNICAL SPECIFICATION

- Size: 126x110x42mm (L x W x H) 4.96 x 4.33 x 1.65" (L x W x H)

- Power Supply: 24 VDC

- Temp: Operating 0°C to + 65°C Non-Oper. -40°C to +85°C Humidity: 5 - 95% non-condensing

- EMC, UL and cUL Compliance: ATEX Certification: 135419

- Fieldbus Conformance: Tested and verified Anybus technology

- RoHS compliance

Anybus Communicator

Connect your serial RS-232/422/485 device to all leading industrial networks

Anybus Communicator can connect almost any product with a serial RS-232, RS-422 or RS-485 communication interface to DeviceNet, ControlNet, EtherNet/IP or almost any other industrial network. The Communicator performs an intelligent conversion between the serial protocol and the chosen industrial network. All of which are easily configured using the included "ABC Config Tool".

Available for:
DeviceNet
EtherNet/IP
ControlNet

Also supporting:
Profibus
Profinet
CANopen
CC-Link
Modbus-TCP
Modbus Plus
Modbus RTU
FIPIO
Interbus

- LED indicators
- DIN-Rail mounting
- Fieldbus/Ethernet Connector
- Configuration port (RJ11)
- 24VDC Power Supply
- Serial RS-232/422/485 port

Typical uses within a factory network

SINGLE-DROP MODE

Using RS-232, the Communicator is connected only to one node on the serial sub-network

PLC
Network Device
Anybus Commuicator EtherNet/IP
Serial connected device — RS232

MULTI-DROP MODE

Using RS-422/485, the Communicator connects with up to a max 31 nodes on the serial sub-network

PLC
Network Device
Anybus Communicator DeviceNet
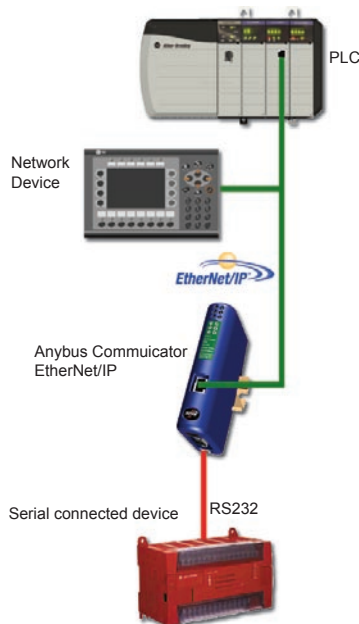Serial connected devices — RS422/485

KEY FEATURES

- Flexible translation between the upper network and serial sub-network with NO programming

- Once a configuration is completed, it can be re-used for all other industrial networks

- Easy adoption of almost any serial protocol

- Instant network connectivity for all devices with serial interface to all major industrial network without any changes

- One Communicator can connect multiple field devices, providing a very cost effective connectivity solution

- Max 512 bytes of Input data and 512 bytes of Output data

- Line Listener to analyze serial telegrams on the sub-network

- ConfigTool and Wizard for easy config and serial sub-network setup

TECHNICAL SPECIFICATION

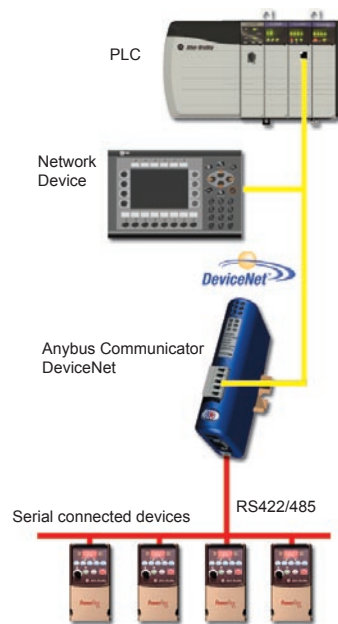- Size: 120 x 75 x 27mm (L x W x H)
  4.72 x 2.95 x 1.06" (L x W x H)

- Power Supply: 24V ± 10%

- Temp: Operating -5°C to + 55°C
  Non-Oper. -55°C to + 85°C

- Tested and verified for Fieldbus and network conformance

- EMC, UL & cUL

- RoHS compliance

» Anybus Communicator and X-gateways

Powerful networking gateways that let you see beyond the communication limitations of your device and your network!

Anybus Communicator and X-gateways are extremely powerful tools when targeting systems that must connect between different products and networks. Easy installation and rugged industrial design allows for efficient, safe communication links in new and existing factories.

- » Anybus Communicator - serial to fieldbus or industrial ethernet gateway.
- » Anybus X-gateway - fieldbus to fieldbus or industrial ethernet gateway.
- » Includes proven embedded Anybus technology, used in over 450,000 installations globally.
- » Industrial design and easy installation for safe and efficient usage.
- » Off the shelf availability of over 170 different gateways.

Founded in 1988, HMS Industrial Networks is a world-leading independent supplier of communication technology for automation equipment. HMS provides reliable solutions to connect devices to any major network protocol and products enabling interconnection between different industrial networks.

The HMS sales organization spans 48 countries, with HQ, In-house Manufacturing and R&D based in Halmstad, Sweden and regional offices in Chicago, Karlsruhe, Milano, Mulhouse, Tokyo and Beijing.

The Anybus® range of products is the world's most used 3rd party products for industrial network connectivity.

Within the Encompass program HMS works with Rockwell Automation and other Encompass member to provide solutions for EtherNet/IP, ControlNet and DeviceNet, but also providing products to connect between these networks and others, like Profibus, CC-Link and Profinet.

As an Global Encompass Partner HMS participates at the Rockwell Automation Fair, the largest industry trade show in the USA, each year, as well as the Encompass Road Shows. This enables HMS to explain how Anybus products can be used with Rockwell products and explain the benefits of using Anybus products to connect to Rockwell supported networks.

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