

Anybus®

BY HMS NETWORKS

Gateway solutions



Anybus X-gateway
 Anybus Communicator
 Anybus Wireless Bolt
 Anybus Wireless Bridge



Hms Connecting Devices™

Anybus Gateways

Industrial networking made easy™

Connecting devices to any fieldbus, industrial Ethernet and IoT platform

Let's face it. Network connectivity is an absolute jungle. Staying up-to-date with fieldbuses, industrial Ethernet networks and IoT platforms is time-consuming and resource-demanding. Luckily, Anybus gateways offer quick and easy system integration by acting as translators between industrial networks and industrial devices — wired or wirelessly.

With more than 300 unique versions to choose from, Anybus gateways solve any type of connectivity problem, whether it is a network-to-network or device-to-network situation.



Why Anybus?

Proven and trusted

Millions of devices are connected to fieldbus and industrial Ethernet networks via Anybus technology in the format of gateways or embedded interfaces.

Anybus gateways have successfully connected devices, machines and networks for more than 20 years, opening up new applications and business possibilities for industrial companies in all areas.

With Anybus gateways best-in-class connectivity is provided to PLC systems from leading vendors such as Rockwell Automation, Siemens, Schneider Electric, Mitsubishi and more.

Quick and easy

Using Anybus gateways is by far the quickest way to achieve connectivity between networks and devices. All gateways include fully implemented fieldbus and industrial Ethernet interfaces, making them ready to connect your equipment to any desired network.

Furthermore, innovative Anybus Wireless solutions also add to the networking flexibility, enabling completely new industrial networking architectures.

Connect. Configure. Done!

With Anybus, you can connect between industrial devices and networks within minutes



Anybus Gateways

Solving connectivity problems on the factory floor



Extend a production line

Extend an existing production segment by connecting new machines that communicate on other networks.

Upgrade to industrial Ethernet

The easy way to migrate from fieldbus to industrial Ethernet. Retrofit an old PLC system, and connect it to a newer system, keeping existing I/O modules and wiring infrastructure.

Make PLCs talk

Connect two PLC systems from different brands such as Siemens, Rockwell, Schneider Electric, Mitsubishi, Beckhoff, ABB etc. Anybus gateways are included in most of the major PLC manufacturers' system building software, making it easy for you to integrate them into your network design.

Create network segments

Divide a network topology into logical segments. Create clear cuts between different parts of the plant, both logical and electrical.

Connect building equipment

Connect building devices such as sensors, temperature meters, or HVAC systems to an industrial network or IT system. Achieve a fully integrated communication solution for your site.

Connect to IoT platforms

Proven and secure solutions to integrate factory floor data with IT technologies and protocols such as OPC UA and MQTT and IoT systems such as ThingWorx, Microsoft Azure, etc.

Connect any device to networks

Connect serial or CAN-based devices to fieldbus or industrial Ethernet networks.

System integrators can retrofit and connect existing machinery to new networks and choose the best automation device for your needs, regardless of manufacturer.

Machine builders and device manufacturers can make their products compatible with any network — the fastest and easiest way to leverage new market opportunities.

Connect devices wirelessly

Create a robust wireless connection to an industrial device, machine or system via WLAN or Bluetooth. Ideal for communication through hazardous areas or hard-to-reach locations where cables are not desirable.

Bring your own device (BYOD)

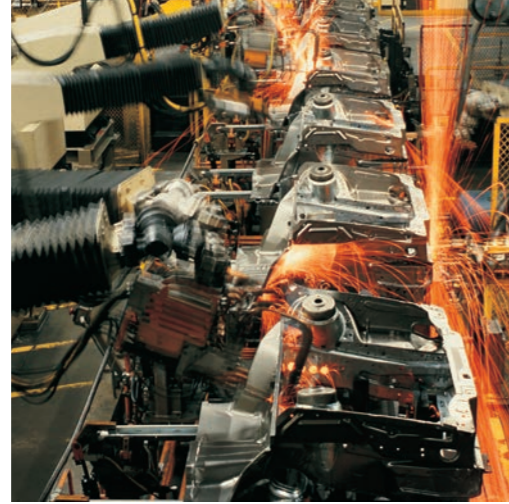
Create innovative BYOD and IIoT solutions by connecting machines wirelessly. Use your laptop or smartphone as an alternative to an HMI. A perfect solution for data acquisition and monitoring.

Anybus Configuration Manager: Connect. Configure. Done!

"No matter which gateway you choose, you configure the network connection in the easy-to-use Anybus Configuration Manager. Simply connect the gateway via USB or Ethernet, create the configuration and you're done!"

Christian Bergdahl
Product Marketing Manager, Anybus





Anybus X-gateway

Connect any two industrial networks
— fieldbus or industrial Ethernet

Anybus® X-gateways™ help you to easily connect any two networks, enabling a consistent information flow throughout the entire plant. A fast transfer of cyclic I/O data is enabled between the two networks, offloading the PLC from working with additional complex calculations.

The X-gateways are tested and proven with equipment from all leading manufacturers of PLCs such as Siemens, Allen Bradley, Schneider Electric, Mitsubishi, ABB, Omron, Hitachi, Beckhoff, Phoenix Contact, Bosch Rexroth and more.

Easy configuration

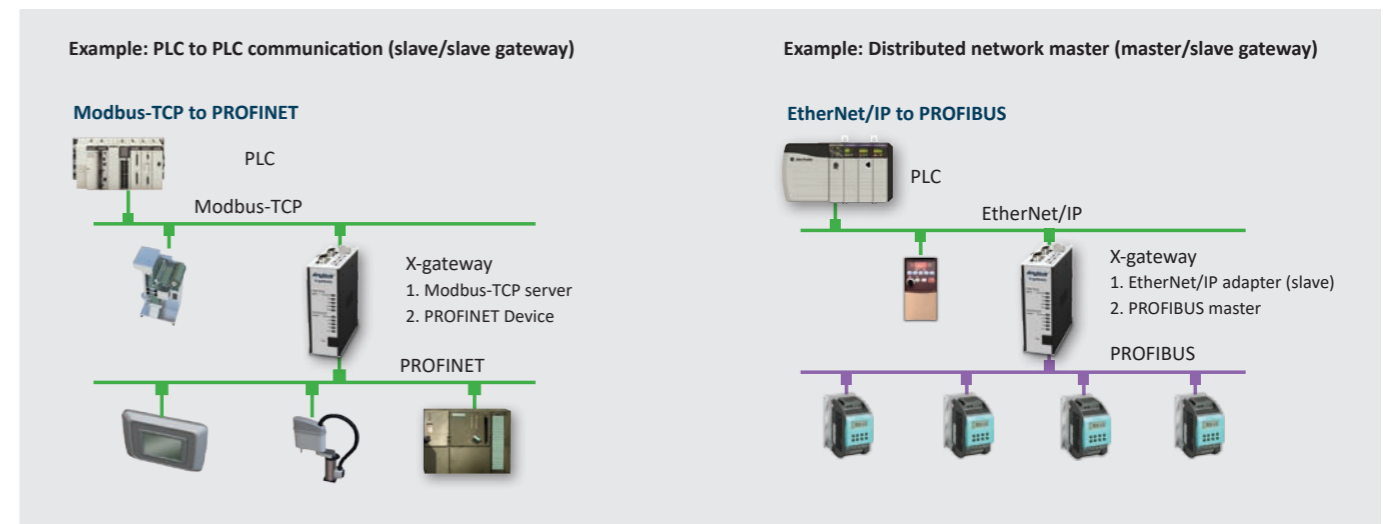
The connection between the two networks is quickly configured using the Anybus Configuration Manager software, which means that no programming is required. Just connect, configure, and you're done.

Anybus X-gateway

- Gateways for conversion between any two networks
- Over 250 versions covering most network combinations
- Easy configuration via the Anybus Configuration Manager
- Master/slave or slave/slave versions available



| | |
|-------------------------|---|
| Mounting | DIN rail (35 x 7,5/15) |
| Dimensions | 114 x 44 x 127 mm |
| Protection class | IP20 |
| Configuration | Windows-based configuration manager |
| Material | Aluminium and plastic |
| Master versions | AS-Interface DeviceNet EtherNet/IP PROFIBUS Modbus-TCP CANopen |
| Slave versions | CANopen CC-Link CC-Link IE Field ControlNet DeviceNet EtherCAT EtherNet/IP FIPIO Interbus RS485 + Fiber Optic J1939 LonWorks Modbus Plus Modbus RTU Modbus-TCP PROFIBUS PROFINET IO PROFINET IRT Copper + Fiber Optic |



Specialized gateways



CANopen
Specialized X-gateway for CANopen connectivity. Acts as CANopen master/client to 10 other networks.



Modbus-TCP
Specialized X-gateway for Modbus-TCP connectivity. Acts as Modbus-TCP master/client to 10 other networks.



EtherNet/IP Linking Devices
Connect any PROFIBUS, Modbus-TCP or serial device/network to ControlLogix™ and CompactLogix™ PLCs from Rockwell Automation. The Linking Devices are stand-alone gateways offering seamless integration to Studio5000 via EtherNet/IP.



Modbus to KNX or BACnet
Allows building devices such as sensors, temperature meters, or HVAC systems to communicate on a Modbus network.



Modbus RTU to TCP
Allows Modbus RTU devices to communicate on a Modbus TCP network.



Anybus Communicator

Connect any device to a fieldbus or industrial Ethernet network

Anybus® Communicator™ is a family of protocol converters that connect devices to all major industrial networks. The Communicator is capable of converting almost any standard or user specific and proprietary protocol. This means that you do not have to worry about making any hardware or software changes to your device. Simply connect a Communicator and you will be able to connect to any network.

Easy configuration

The device connection is configured using the easy to use Anybus Configuration Manager software. Just connect, configure, and you're done.



**Communicator Serial
RS232/422/485**

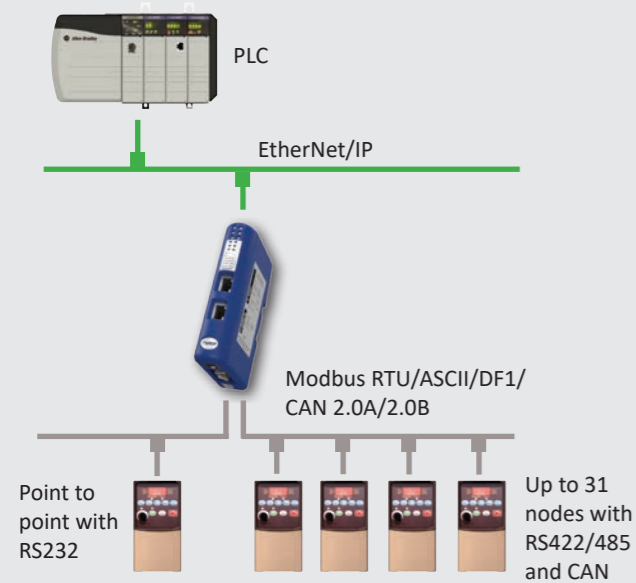
- Protocol converters with flexible serial frame building
- Connectivity to 13 networks
- Supports Modbus RTU/DF1/ASCII or vendor-specific protocols
- For Request/Response or Produce/Consume protocols



Communicator CAN

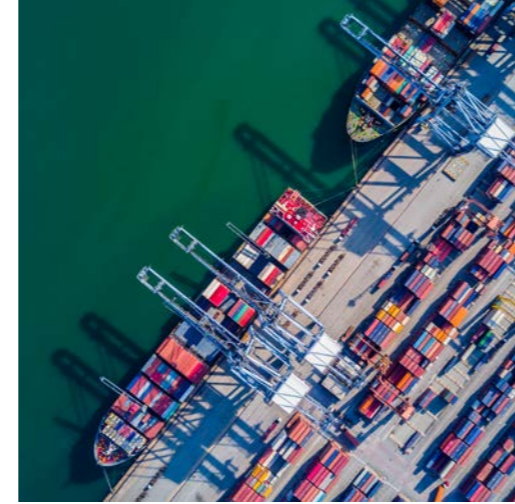
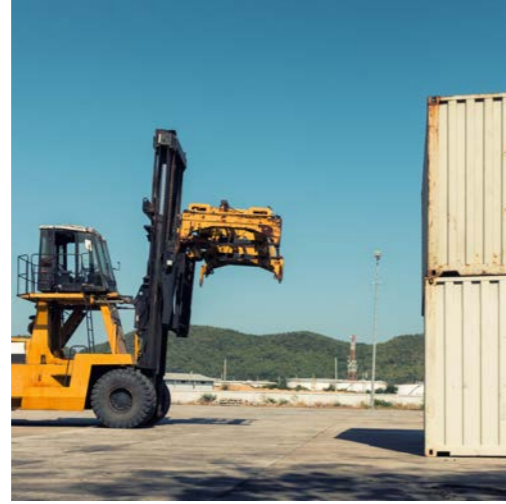
- Protocol converters with flexible CAN frame building
- Connectivity to 11 networks
- For devices with CAN 2.0A and 2.0B based protocols

Example: Single and multi-drop connectivity to DeviceNet



| | | |
|------------------|--|---|
| Mounting | DIN rail (35 x 7,5/15) | |
| Dimensions | 120 x 75 x 27 mm | |
| Protection class | IP20 | |
| Configuration | Windows-based configuration manager | |
| Material | Plastic | |
| Versions | Communicator Serial: CANopen CC-Link CC-Link IE Field ControlNet DeviceNet EtherCAT EtherNet/IP FIPIO Interbus Modbus Plus Modbus RTU Modbus TCP PROFIBUS PROFINET IO PROFINET IRT | Communicator CAN: CANopen CC-Link ControlNet DeviceNet EtherCAT EtherNet/IP Modbus RTU Modbus-TCP PROFIBUS PROFINET-IO 1-port PROFINET-IRT 2-port |



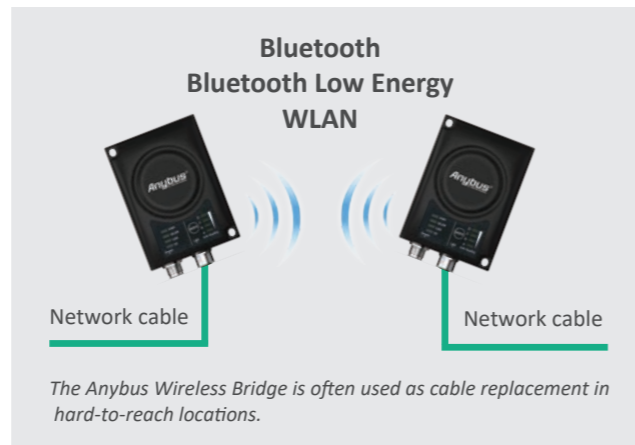


Anybus Wireless Bridge

Replace serial or Ethernet cabling with a robust wireless connection

Anybus® Wireless Bridge™ is ideal for system integrators needing to establish a robust wireless connection for industrial use. The Wireless Bridge is often used in pairs but can also be used as an access point connecting up to 7 clients.

- Range:** Up to 400 meters
- Mounting:** DIN-rail or wall-mounted
- IP class:** IP65
- Configuration:** Push-button or web based
- Connectors:** M12 (DSUB on serial version)
- Wired:** Ethernet or Serial
- Wireless:** Bluetooth or WLAN

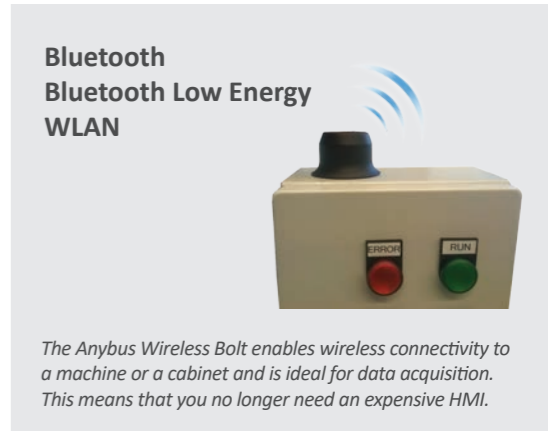


Anybus Wireless Bolt

Enable wireless machine access

Anybus® Wireless Bolt™ is ideal for machine builders wanting to give their machines wireless access. It is mounted onto a cabinet or a machine and connects using Ethernet, CAN or Serial communication.

- Range:** Up to 100 meters
- Mounting:** Screwed onto machine (M50 hole — 50.5 mm)
- IP class:** IP67 outside (IP21 inside)
- Configuration:** Web based, AT Commands or Easy Config modes
- Connector:** 2x9p;3,5 Plug Connector or RJ45 connector with PoE (inside the machine)
- Wired:** Ethernet
- Wireless:** Bluetooth, Bluetooth Low Energy or WLAN



Related product from HMS
Serial over Bluetooth
Point-to-point or multipoint



**Ethernet over
Bluetooth and WLAN**
Point-to-point or multipoint

Bridge and Bolt work together seamlessly



**Ethernet over
WLAN/Bluetooth**
Point-to-point or multipoint



**Ethernet + serial over
WLAN/Bluetooth**
Point-to-point or multipoint



**Ethernet + CAN over
WLAN/Bluetooth**
Point-to-point or multipoint



Work with HMS.
The number one choice for
industrial communication
and IIoT.

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