Gateways and wireless solutions for industrial networking and system integration.
Anybus gateways: Industrial networking made easy™

Why Anybus?

Proven and trusted
Millions of devices are connected to fieldbus and industrial Ethernet networks via Anybus technology.

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.

Anybus gateways provide best-in-class connectivity to PLC systems from leading vendors such as Rockwell Automation, Siemens, Schneider Electric, Mitsubishi.

Quick and easy
Anybus gateways are 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.

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 issue, whether it is a network-to-network or device-to-network situation.

Connect. Configure. Done!
With Anybus, you can connect between industrial devices and networks within minutes.
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 any device
Connect serial or CAN based devices to fieldbus or industrial Ethernet networks.

If you are system integrator or plant owner, you can keep well-working equipment (retro-fitting) and choose the best automation device for your needs, regardless of manufacturer.

If you are a machine builder or device manufacturer, you can make your machines compatible with any network — the fastest and easiest way to enter a new market.

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Connect to IoT platforms
Proven and secure solutions to integrate factory floor data with IT technologies and IoT systems such as ThingWorx, SAP, OPC etc.

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Connect devices wirelessly
Create a robust wireless connection to an industrial device 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.

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

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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. You get fast transfer of cyclic I/O data between two networks, offloading the PLC from working with additional complex calculations.

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 in 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
• AD-interface
• DeviceNet
• EtherCAT
• Ethernet/IP
• Profinet

Slave versions
• CANopen
• CC-Link
• DeviceNet
• EtherCAT
• EtherCAT
• FIP
• Interbus RS485 + Fiber Optic
• J1939
• LonWorks
• Modbus Plus
• Modbus RTU
• Modbus TCP
• PROFINET
• PROFINET IRT
• PROFINET I/T Copper + Fiber Optic

EtherNet/IP Linking Devices
Connect any PROFINET, 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.

Specialized gateways:

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

Modbus-TCP

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.

Example: PLC to PLC communication (slave/slave gateway)

Example: Distributed network master (master/slave gateway)
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 (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
You configure your device through the Anybus Configuration Manager software. Just connect, configure, and you’re done.

Communicator CAN
• Protocol converters for flexible CAN frame building
• Connectivity to 13 networks
• Supports CANopen, CC-Link,
  ControlNet, DeviceNet,
  EtherCAT, EtherCAT
  PowerLine,
  EtherCAT
  PROFINET, EtherCAT
• For devices with CAN 2.0A and 2.0B based protocols

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

Example: Single and multi-drop connectivity to DeviceNet

Point to point with RS232
Up to 31 nodes with RS422/485 and CAN

Modbus RTU/ASCII/DF1/CAN 2.0A/2.0B

PLC
EtherNet/IP

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
EtherCAT
PowerLine
EtherCAT
PROFINET
PROFINET
PROFINET

Communicator CAN:
CANopen
CC-Link
ControlNet
DeviceNet
EtherCAT
EtherCAT
PROFINET
PROFINET-IO 1-port
PROFINET-RT 2-port

Connect any device to a fieldbus or industrial Ethernet network
**Wireless networking for the modern factory**

**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.

<table>
<thead>
<tr>
<th>Mounting</th>
<th>DIN-cable or wall-mounted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>91 x 66 x 36.2 mm</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP65</td>
</tr>
<tr>
<td>Configuration</td>
<td>Push-button or web-based</td>
</tr>
<tr>
<td>Range</td>
<td>Up to 400 meters</td>
</tr>
<tr>
<td>Connectors</td>
<td>M12</td>
</tr>
<tr>
<td>Communication</td>
<td>Ethernet</td>
</tr>
<tr>
<td>Wireless</td>
<td>Bluetooth or WLAN</td>
</tr>
</tbody>
</table>

The Anybus Wireless Bridge is often used as cable replacement in hard-to-reach locations.

**Related product**

- **Serial over Bluetooth**
  - Point-to-point or multipoint

**Anybus Wireless Bolt™**

Give a machine wireless connectivity

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

<table>
<thead>
<tr>
<th>Range</th>
<th>Up to 100 meters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting</td>
<td>Screw-mounted onto machine (M50 hole — 50.5 mm)</td>
</tr>
<tr>
<td>IP class</td>
<td>IP67 outside (IP21 inside)</td>
</tr>
<tr>
<td>Configuration</td>
<td>Web-based, AT Commands or Easy Config modes</td>
</tr>
<tr>
<td>Connector</td>
<td>2 x 9p,3.5 Plug Connector (inside the machine)</td>
</tr>
<tr>
<td>Communication</td>
<td>Ethernet, CAN or Serial</td>
</tr>
<tr>
<td>Wireless</td>
<td>Bluetooth, Bluetooth Low Energy or WLAN</td>
</tr>
</tbody>
</table>

The Anybus Wireless Bolt connects a machine or cabinet wirelessly and is ideal for BYOD (Bring Your Own Device). Use your laptop or smartphone as an alternative to an HMI.

**Related product**

- **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.

Proven and trusted
With millions of communication solutions installed globally, HMS Industrial Networks is the world’s number one independent provider of industrial communication solutions — gateways as well as embedded products. Some of the world’s leading experts in industrial connectivity work at HMS.

All types of customers across all industries trust HMS. From small and medium-sized companies all over the world to major industrial automation companies such as Siemens, Mitsubishi, Yaskawa, Rockwell Automation, Schneider Electric and ABB.

Local expertise at your service
HMS extensive network of distributors is ready to support you with local expertise, supported by local HMS offices and technology centers.

www.anybus.com