

Anybus[®]
BY HMS NETWORKS

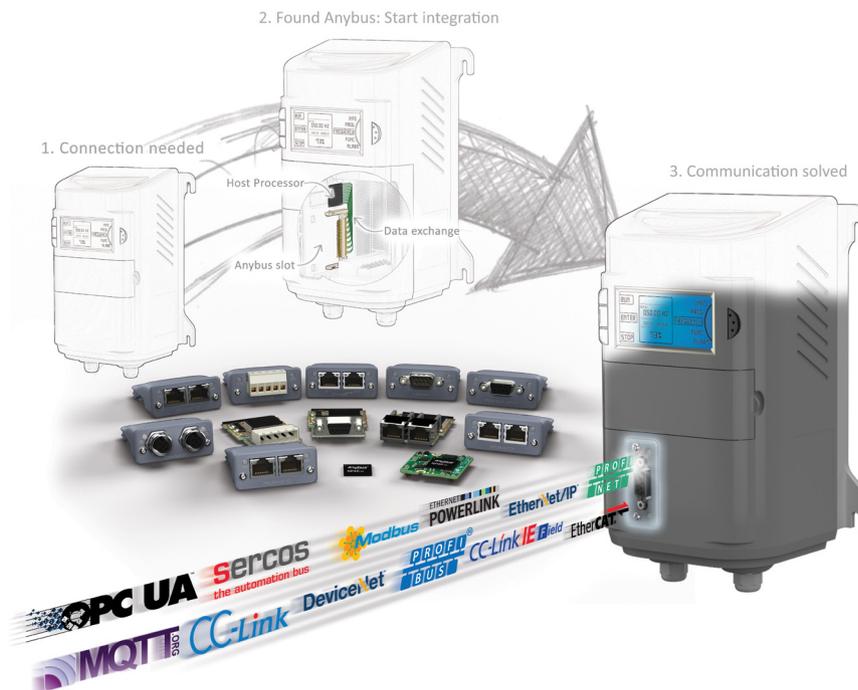
Embedded communication

Anybus CompactCom



Anybus CompactCom

The easy way to connect devices to any industrial network



Embedded communication interfaces for industrial networking

What does it take for industrial machine and device manufacturers to offer products that reliably and securely connect to their customers' networks? Well, it demands a lot of hard work and advanced networking technology. As users continue to place greater demands on data communications, managing and maintaining networking technology within their products has become increasingly complex for manufacturers.

This is where the Anybus CompactCom steps in. Hundreds of companies have turned to Anybus, entrusting them to embed the Anybus CompactCom into millions of devices. The Anybus CompactCom enables the devices to connect to the industrial network, whatever the network, allowing the manufacturers to remain focused on their area of expertise.

Anybus provides the following benefits!



Connectivity to all major fieldbus and Industrial Ethernet networks



Reduces the time-to-market for new products



Easy to add connectivity to new networks – expand your market!



End-to-end support – from design through to maintenance

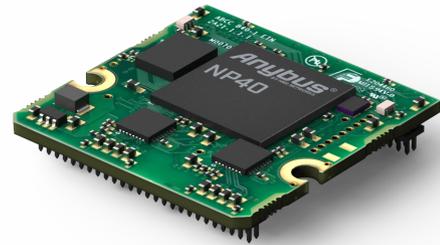
Which CompactCom suits you?

Anybus CompactCom is available in different form factors.



Module

- All-in-one: Hardware, firmware and connectors
- Best choice for the fastest time to market
- Slide into a module slot - connector and slot cover available
- Easy to use, can be installed by an end-user



Brick

- Hardware and firmware in a compact form
- Economical solution - best choice for higher volumes
- Best choice if you need specific connectors or protection class
- Compact form factor, ideal for devices with limited space

Did you know?

Most networks specifications are updated 1-2 times per year. With Anybus, you don't need to worry about this. You get free software updates whenever networks are revised.



EtherNet/IP



CC-Link

CANopen

ETHERNET
POWERLINK



CC-Link IE Field

SERCOS
the automation bus

EtherCAT

ControlNet



BACnet

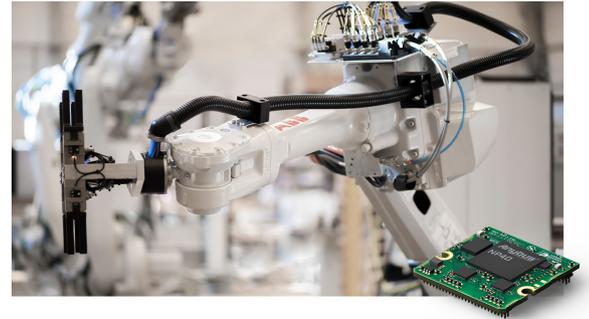
DeviceNet

Two case studies - different requirements

Connecting robot accessories to any industrial network

Robot System Products (RSP) specializes in manufacturing industrial robot accessories used in factories worldwide. When they were developing their Moduflex series of tool changers they wanted to offer a modern product capable of connecting to automation networks. They chose the Anybus CompactCom 40 Brick, which preserved the tool changer's compact size and eliminated the need for extra cables.

"We would not have been able to develop the Moduflex series this easily without the Anybus CompactCom. It's a great product. It provides reliable industrial network communication and is easy to use."



Our choice: Anybus CompactCom 40 Brick



Henrik Hofström,
Marketing Manager,
Robot System Products (RSP)

OBARA's automotive welding market has been expanded via Anybus CompactCom

OBARA China wanted to expand its market and offer welding controllers that could connect to any major industrial network while meeting strict requirements for stability and reliability.

OBARA chose to integrate the Anybus CompactCom module into the welding controller, making it both easy to match the required industrial network and meet the tough requirements.

"HMS' Anybus CompactCom Module is not only convenient to use but also greatly reduces our development and maintenance efforts. We can flexibly match modules in different communication protocols according to the requirements of customers and production lines, which is great!" - Evaluation from OBARA



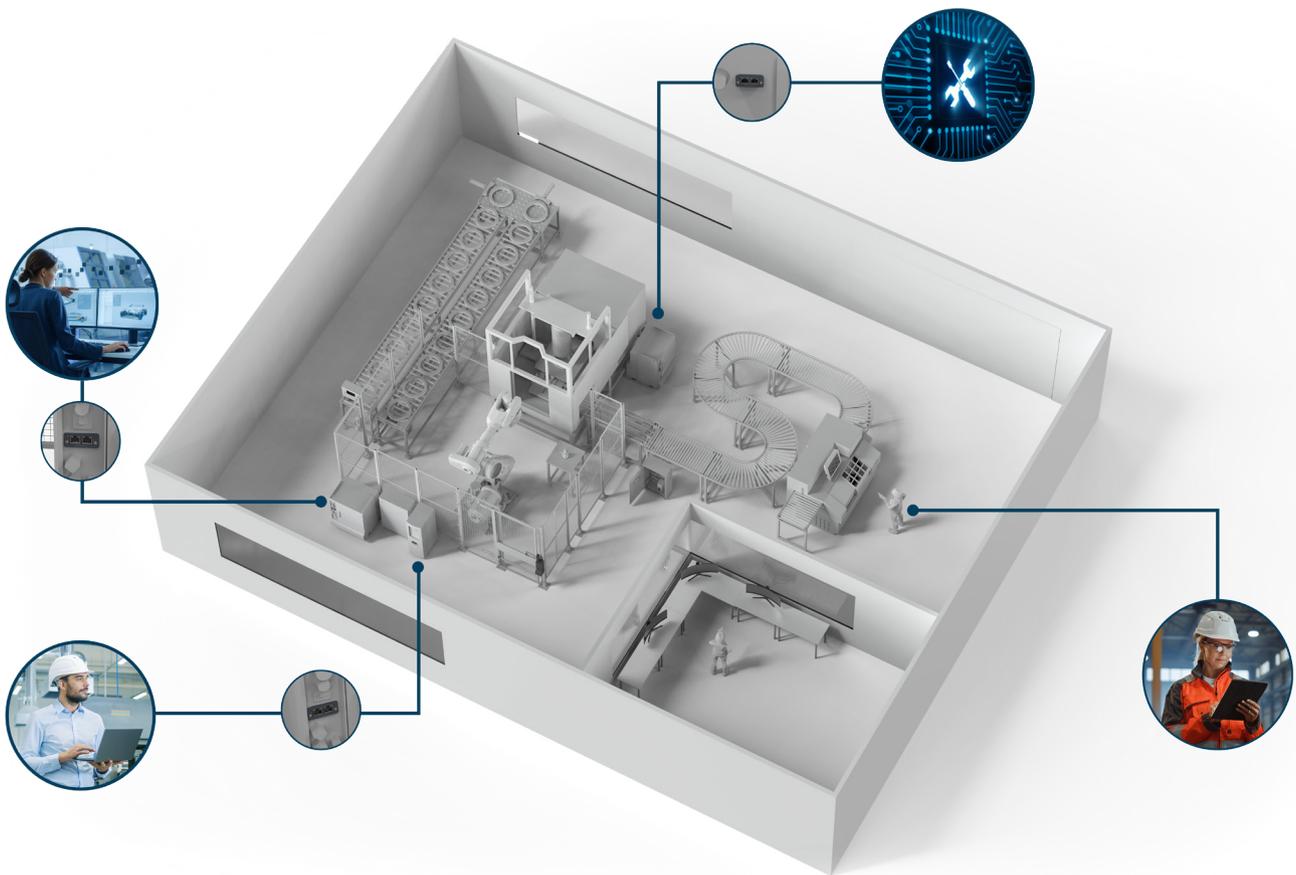
Our choice: Anybus CompactCom 40 Module

Focus on your area of expertise, leave the networking to Anybus!

Key features of the Anybus CompactCom

Designed for industrial automation and control systems, the Anybus CompactCom offers a wide range of features that make it the standout choice for connecting devices to industrial networks. With its extensive protocol support, high performance, excellent usability, and seamless integration with IT systems, this versatile communication interface excels in meeting the diverse needs of industrial applications.

- Real-time communication
- IT functions, such as integrated web server, email notifications, and file transfers
- Securely connect to IoT software via OPC UA or MQTT
- Compatible with CIP Safety, FSoE, and PROFIsafe safety networks
- Maximize processor potential with a transparent Ethernet channel



This is how it's done!

Implementing a ready-made communication interface is the easiest way to connect your device to an industrial network. Nevertheless, an implementation involves a significant project, including hardware, software, testing, and more.

The CompactCom integration journey

The time it takes to integrate the Anybus CompactCom into a product varies depending on your level of ambition. However, based on our extensive experience, implementation typically takes approximately 9 months and includes the following steps:



Upon completion, you no longer need to worry about maintenance and updates, as HMS Networks ensures that the Anybus CompactCom is always up to date.

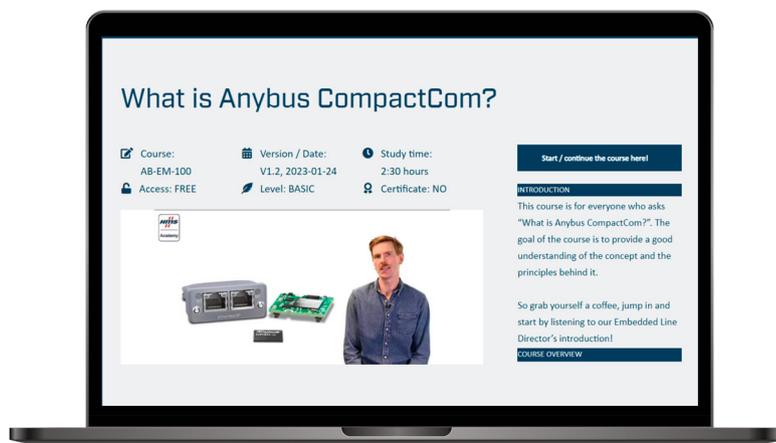
It's also easy to repeat the process to offer support for additional network protocols. Subsequent integration journeys are much shorter as many of the stages are already completed.

Technical introduction

A good place to start is to contact your local HMS office and request a technical presentation from our experienced engineers.

eLearning – What is Anybus CompactCom?

If you want to know more about the Anybus CompactCom concept, we offer a short, free online training course for technical personnel such as product managers or engineers.



Kickstart your integration!

HMS helps you kickstart the implementation of an Anybus CompactCom into your device by providing a variety of hardware and software tools for demonstration, evaluation, and application development. Using these software and hardware tools can save you hundreds of development hours!

Embedded communication interfaces for industrial networking

Begin by downloading our free host application example code and speed up the development process for any target application! The code supports all major fieldbus and Industrial Ethernet protocols, making it a great way to quickly evaluate the Anybus CompactCom.

Anybus CompactCom Starter Kit

The Anybus CompactCom starter kit contains everything you need to comprehensively test and evaluate the capabilities of the Anybus CompactCom. Test communication speed, latency, and try out different network combinations before starting production.



Adapter boards

The adapter boards are designed for testing the Anybus CompactCom module with Raspberry Pi, STM32, or NXP (formerly Freescale) microcontroller platforms. Fully compatible with the Anybus CompactCom module and host application example code, the adapter boards ensure a fast and smooth start to your design.



NXP Tower TWRP1025



STM3240G-EVAL board



Raspberry Pi

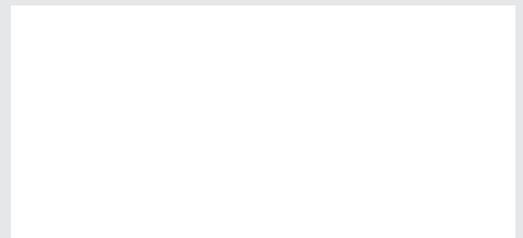


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