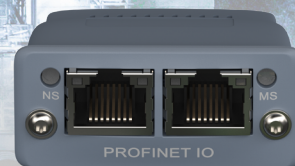


Anybus[®]
BY HMS NETWORKS

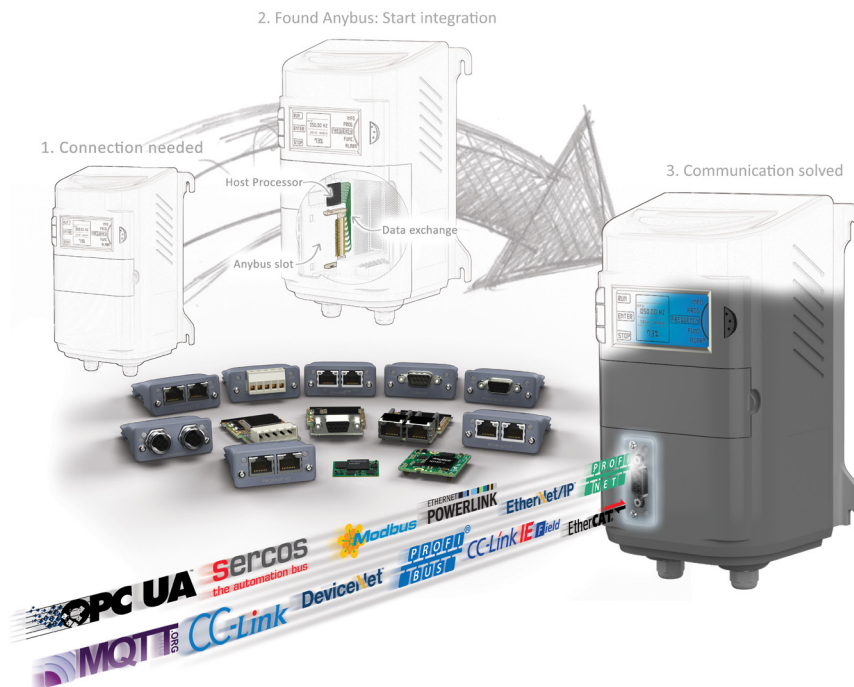
Embedded communication

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!



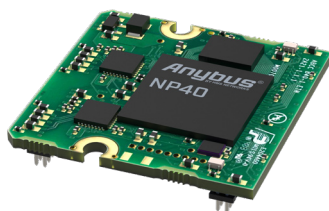
End-to-end support – from design through to maintenance

Which CompactCom suits you?



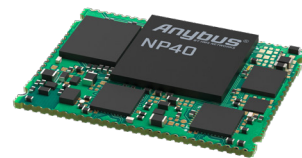
Module

Combines hardware, firmware, and network connectors in an easy-to-install module.



Pluggable Brick

Hardware and firmware included in a pluggable brick, which is manually attached to the host's carrier board.



Soldered-on Brick

Hardware and firmware included in a mini brick, which is soldered onto the host's carrier board.

	Module (M40)	Pluggable Brick (B40)	Soldered-on Brick (B40 Mini)
Physical mounting	Plug-in (50 pin CompactFlash connector)	Plug-in (2x28 + 2x26 pin 1.27mm pitch)	Solder-on (74 pad PCB footprint)
Length x Width	50 x 52 mm	36 x 36 mm	36,4 x 27 mm
Height (approx.)	19 mm	8 mm	3 mm
Network connectors	Included	Not included	Not included
Development effort	Low	Medium	Medium
Supported interfaces	Parallel, SPI, Shift register	Parallel, SPI, Shift register	SPI
Minimum Order Quantity	No minimum	No minimum	1 tape & reel (600 units)
Delivery format	Tray	Tray	Tape & reel
Black channel support	Yes	Yes	Yes
Supported network interfaces	BACnet/IP, CANopen, Common Ethernet*, CC-Link, CC-Link IE Field, CC-Link IE TSN, DeviceNet, EtherCAT, EtherNet/IP, Modbus TCP, POWERLINK, PROFIBUS DP-V1, PROFINET IRT	BACnet/IP, CANopen, Common Ethernet*, CC-Link, CC-Link IE Field, CC-Link IE TSN, DeviceNet, EtherCAT, EtherNet/IP, Modbus TCP, POWERLINK, PROFIBUS DP-V1, PROFINET IRT	BACnet/IP, Common Ethernet*, EtherCAT, EtherNet/IP, Modbus TCP, POWERLINK, PROFINET IRT
IIoT Secure variant**	Yes	Yes	No
IIoT protocols	OPC UA, MQTT	OPC UA, MQTT	None

*Common Ethernet: Same unit supports PROFINET, EtherCAT, Modbus TCP, POWERLINK, EtherNet/IP, and BACnet network protocols.

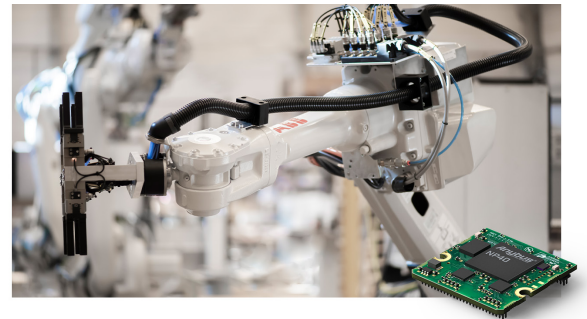
**IIoT Secure: Designed for advanced cybersecurity, featuring hardware-accelerated encryption, password protection, and secure protocols such as WebDAV. This version also supports OPC UA and MQTT.

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



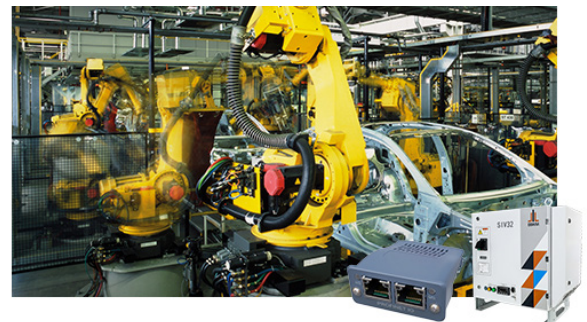
Henrik Hofström,
Marketing Manager,
Robot System Products (RSP)

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

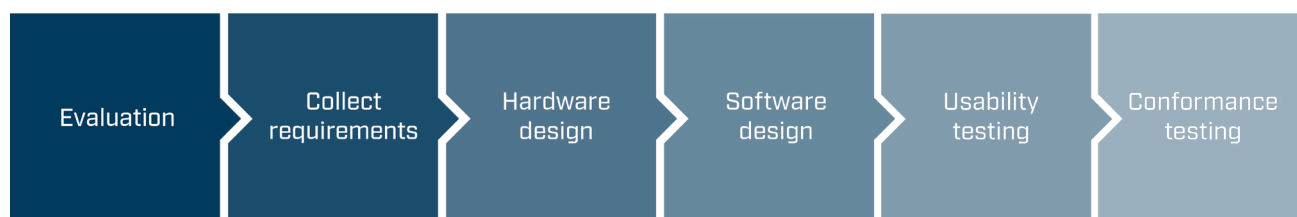
Focus on your area of expertise, leave the
networking to Anybus!

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 specific goals. However, based on our extensive experience, the implementation process generally follows these 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.

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

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 software driver and speed up the development process for any target application! The driver supports all major fieldbus and Industrial Ethernet protocols, making it a great way to quickly evaluate the Anybus CompactCom.

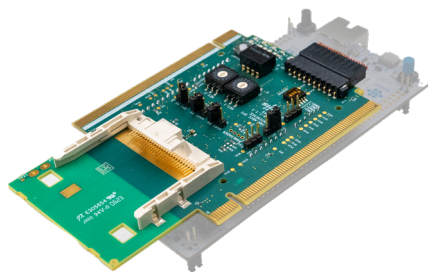
Anybus CompactCom Starter Kit

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.

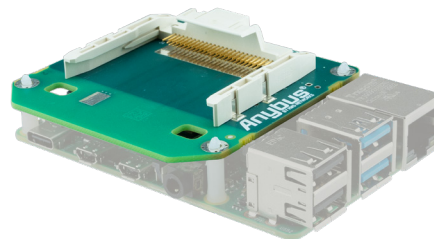


Adapter boards

The adapter boards are designed for testing the Anybus CompactCom module with Raspberry Pi and STM32 microcontroller platforms. Fully compatible with the Anybus CompactCom module and software driver, the adapter boards ensure a fast and smooth start to your design.



STM32-Nucleo board



Raspberry Pi

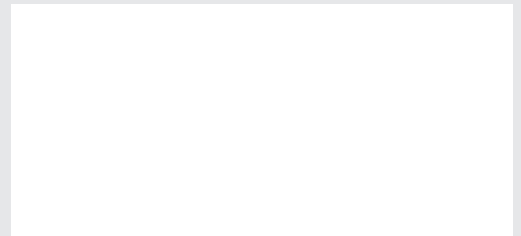


Work with HMS.
The number one choice for
Industrial ICT - Information and
Communication Technology.

HMS Networks - Contact

HMS is represented all over the world.
Find your nearest contact here:

www.hms-networks.com/contact



Anybus® is a registered trademark of HMS Industrial Networks AB, Sweden, USA, Germany and other countries. Other marks and words belong to their respective companies. All other product or service names mentioned in this document are trademarks of their respective companies.
Part No: MMA400 Version 2 11/2024 - © HMS Industrial Networks - All rights reserved - HMS reserves the right to make modifications without prior notice.



www.hms-networks.com/anybus