



Anybus[®] Wireless

Powerful industrial wireless solutions
for the modern factory

Go wireless with Anybus[®]

Set up a wireless LAN infrastructure

With an Anybus WLAN Access Point in your building, you can easily set up an industrial-grade wireless network.

- **Anybus WLAN Access Point**



Get rid of cables in harsh industrial environments

Use Anybus Wireless Bridge to create an industrial-strength wireless connection whenever cables are not desirable.

- **Anybus Wireless Bridge II**



Data acquisition

By attaching Anybus Wireless Bolt to a machine, it is possible to use a tablet, laptop or smartphone as a flexible and versatile HMI.

- **Anybus Wireless Bolt**



Connect a machine wirelessly

Anybus wireless products can get machines or devices connected to wireless networks — intranet or external web services.

- **Anybus Wireless Bolt**






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

**Bluetooth
Bluetooth Low Energy
WLAN**



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



Anybus[®] Wireless Bolt

Give a machine wireless 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

**Bluetooth
Bluetooth Low Energy
WLAN**



The Anybus Wireless Bolt connects a machine or cabinet wirelessly and is ideal for data acquisition. This means that you no longer need an expensive HMI.



Serial over Bluetooth
Point-to-point or multipoint



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



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



Bridge and Bolt work together seamlessly

Select the Bridge or Bolt - whatever formfactor suits your application best



Related product from HMS
Need CAN-communication via Bluetooth? Have a look at CANblue II.
www.ixxat.com



Which wireless technology is best for you?

One wireless technology cannot cater for all application requirements. The standardized wireless technologies — WLAN, Classic Bluetooth and Bluetooth Low Energy — are good at different things.

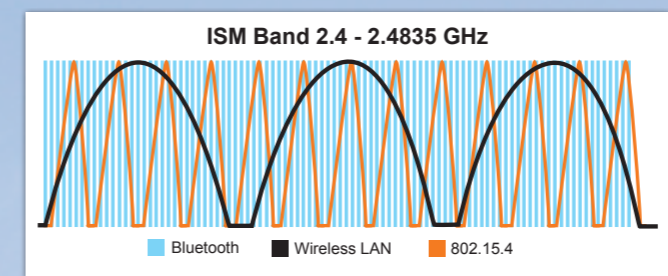
WLAN (also commonly referred to as WiFi) is the most widely used wireless standard. It is often used for production planning and data acquisition as well as applications where rapid roaming is required. It provides very high data throughput but its wide bandwidth makes it vulnerable to disturbance. Bluetooth is often used for Human Machine Interfaces (HMI),

programming, service/maintenance and real-time control tasks. It has a small bandwidth which, together with functionality such as Adaptive Frequency Hopping (AFH), makes it less vulnerable to disturbances.

During the last few years, other technologies like Bluetooth Low Energy have become increasingly used for sensors, actuators and other small, often battery-driven, devices that need to be interconnected.

Security
Preventing unauthorized access is naturally of utmost importance when establishing a wireless connection. Bluetooth and WLAN have different ways of handling security. Whereas WLAN relies on standards such as WEP 64/128, WPA, WPA-PSK and WPA 2, Bluetooth provides three basic security services:

- Authentication & Authorization
- Encryption & Data Protection
- Privacy & Confidentiality



	Bluetooth technology	Wireless LAN / WLAN	Bluetooth low energy technology
Data throughput	+/-	++	-
Robustness	++	+/-	++
Range	10-400 m	50-400 m	10-250 m
Local system density	++	-	++
Roaming	+	++	N/A
Large scale network	-	+/-	+
Low latency	++	+/-	++
Connection set-up speed	-	+/-	++
Power consumption	+	-	+++
Cost	+	-	++

Caption: The table offers a quick overview of the differences between the wireless technologies.
 + = Good
 ++ = Strong
 +++ = Very strong
 +/- = Average
 - = Weak

Anybus[®] WLAN Access Point

Set up a WLAN infrastructure the easy way

Anybus WLAN Access Point allows you to set up an industrial wireless infrastructure by acting as an access point for several clients. It comes in two different versions, one for IP30 applications and one for IP67 (waterproof). Both have the same characteristics in range and functionality.

- Range:** Up to 400 meters
- Mounting:** DIN-rail, wall-mount, or pole mount
- IP class:** IP67 or IP30
- Configuration:** Web based
- Connector:** M12 (IP67 version) or RJ45 (IP30 version)
- Wired:** Ethernet
- Wireless:** WLAN only



WLAN Access point
IP30

WLAN Access Point
IP67 PoE M12

Work with HMS.

The number one choice for industrial communication.

Network connectivity expertise at your service

With millions of communication solutions installed globally, HMS Industrial Networks is undisputedly the world's number one provider of industrial connectivity solutions.

Customers include most major industrial automation companies such as Siemens, Mitsubishi, Yaskawa, Rockwell Automation, Schneider Electric, Toshiba, Panasonic, ABB and Hitachi, as well as small and medium-sized companies in a variety of industries.

Technical services — with you all the way through your project

By partnering with HMS, you get access to the knowledge of some of the world's leading experts in industrial connectivity — experts who are with you all the way from the design project and throughout the product lifecycle.

With HMS as your communication partner, you will not have to worry about network upgrades, new technologies or conformance testing. HMS handles all connectivity issues, so you can focus on your core business.

Facts about HMS

- Operations in 14 countries: Sweden, Germany, Belgium, USA, Switzerland, Japan, China, Italy, France, UK, Spain, Finland, India and Singapore.
- Customers in more than 50 countries.
- Head office in Halmstad, Sweden.
- Founded in 1988.
- More than 500 employees.
- Listed on NASDAQ-OMX Nordic Exchange in Stockholm.
- Free technical support.

www.anybus.com

HMS Industrial Networks – worldwide

HMS - Sweden (HQ)

Tel: +46 35 17 29 00 (Halmstad HQ)
E-mail: sales@hms-networks.com

HMS - China

Tel: +86 010 8532 3183
E-mail: cn-sales@hms-networks.com

HMS - France

Tel: +33 (0)3 67 88 02 50 (Mulhouse office)
E-mail: fr-sales@hms-networks.com

HMS - Finland

Tel: +358 404 557 381
E-mail: sales@hms-networks.com

HMS - Germany

Tel: +49 721 989777-000
E-mail: ge-sales@hms-networks.com

HMS - India

Tel: +91 83800 66578
E-mail: in-sales@hms-networks.com

HMS - Italy

Tel: +39 039 59662 27
E-mail: it-sales@hms-networks.com

HMS - Japan

Tel: +81 45 478 5340
E-mail: jp-sales@hms-networks.com

HMS - Singapore

Tel: +65 9088 6335
E-mail: ea-sales@hms-networks.com

HMS - Switzerland

Tel: +41 61 511342-0
E-mail: ch-sales@hms-networks.com

HMS - UK

Tel: +44 1926 405599
E-mail: uk-sales@hms-networks.com

HMS - United States

Tel: +1 312 829 0601
E-mail: us-sales@hms-networks.com

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: MMA440 Version 6 03/2018 - © HMS Industrial Networks - All rights reserved - HMS reserves the right to make modifications without prior notice.