Connectivity solutions for Schneider Electric

Embedded multi-network connectivity
Fieldbus and Ethernet gateways
CAN interfaces and gateways
Wireless communication
Remote solutions
What we do
HMS products, solutions and know-how enable industrial machinery to get connected to systems and networks and are therefore a must-have for any industrial company wishing to operate globally.

Our products connect millions of devices around the world and enable our customers to widen their market and improve their business.

HMS’ long expertise, large installed base, and wide market coverage, make us the undisputed market leader of our field.

HMS Industrial Networks extends the communication capabilities of Schneider Electric’s products and systems

HMS can offer:

- More than 300 unique Anybus gateways for connecting Schneider Electric devices to any industrial network
- Anybus embedded products which integrate into a Schneider Electric device to offer connectivity.
- Anybus Wireless solutions giving Schneider devices and machines wireless access via Bluetooth or WLAN.
- eWON Remote Solutions enabling you to access, monitor and control Schneider Electric PLCs and machines from anywhere.
- IXXAT CAN connectivity products such as PCI cards, bridges and repeaters.
Make a Schneider Electric system communicate with any other PLC system

Anybus X-gateways help you to easily connect any two industrial networks, fieldbus or industrial Ethernet. 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 Schneider Electric and most other manufacturers of PLCs such as, Siemens, Allen Bradley, Mitsubishi, ABB, Omron, Hitachi, Beckhoff, Phoenix Contact, Bosch Rexroth and more.

**Easy configuration**
The connection between the two networks is quickly set up in the Anybus Configuration Manager software which means that no programming is required. Just connect, configure, and you’re done.

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

**X-gateway CANopen**
- Specialized X-gateway for CANopen connectivity
- CANopen master/client to 10 other networks
- Easy, web-based configuration through the Anybus Configuration Manager software
- SD card backup for easy module replacement and project backup

**X-gateway Modbus-TCP**
- Modbus-TCP master/client to 10 other networks
- Easy, web-based configuration through the Anybus Configuration Manager software
- SD card backup for easy module replacement and project backup

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Connect a serial or CAN-based device to a fieldbus or industrial Ethernet network

Anybus Communicator is a family of protocol converters that connect serial or CAN-based 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.

**Easy configuration**
You configure your device through the Anybus Configuration Manager software. No programming is required. Just connect, configure, and you’re done.

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**Communicator RS232/422/485**
- Protocol converters that offer flexible serial frame building
- Connectivity to 13 different networks
- Supports ASCII or vendor-specific protocols
- For Request/Response or Produce/Consume protocols

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

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**GATEWAYS FOR BUILDING AUTOMATION:**

Anybus gateways
Perfect for connecting to Schneider Electric’s core or legacy networks.

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

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**M-Bus to Modbus TCP**
Integrate M-Bus energy meters into a Modbus PLC system.
Replace serial or Ethernet cabling with a robust wireless connection

Anybus Wireless products enable you to create a disturbance-free wireless connection to an industrial device. The solution is ideal for communication through hazardous areas or hard-to-reach locations where cables are not desirable.

Wireless transmission is made via Bluetooth or WLAN technology and there are several versions available for both serial and industrial Ethernet communication.

The Anybus Wireless Bridge is often used as cable replacement to a hard-to-reach device but it can also be used to connect several wireless nodes.

Anybus Wireless Bridge: Cable replacement

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

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.

When to choose WLAN or Bluetooth

- Provides higher bandwidth (wider frequency range)
- Point-to-point
- Wireless LAN client adapter in an infrastructure setup
- Even more reliable and noise-immune wireless link since Bluetooth switches between different frequencies.
- Point-to-point or multipoint

EXAMPLE: Point-to-point cable replacement

For more than 20 years, Anybus embedded modules have provided connectivity capabilities for all types of industrial devices and Anybus is today the world's number one choice for industrial communication. There are thousands of Schneider Electric devices equipped with standard and customized Anybus modules.

Anybus embedded modules give you:

- Global connectivity which will open up new markets for your product.
- A faster ROI and shorter time to market.

One development project — access to all networks

During the development project, you design the Anybus module into your product.

You implement the Anybus driver in your processor which enables your product to exchange data with the Anybus module. Your product can now participate in the chosen network.

Once you have implemented the Anybus module, your device has full network interchangeability. Simply plug in another Anybus module to offer your product to any market or business segment.

Anybus CompactCom easily plugs into an automation device to offer connectivity to a certain network. Once you have implemented the Anybus module, your device has full network interchangeability. Simply download the software for the network you want to connect to.
Connect to CAN and energy networks!

IXXAT technology is widely used for communication between components within machines and includes standardized software and hardware as well as customized OEM solutions. With a long track record within CAN-related connectivity, IXXAT solutions enable communication inside machines, industrial automation devices, medical equipment etc.

IXXAT canAnalyser
A powerful analysis tool for development, test and maintenance of CAN and DeviceNet networks. The software package is modular, open and expandable.

IXXAT CAN Bridge
IXXAT CAN Bridges can be used to connect networks and protocols of different bit rates and also provide simple translation and filter rules. They also enable expansion of network size.

IXXAT CAN Repeater
IXXAT CAN repeaters enable physical coupling of CAN or DeviceNet network segments. They can be used to change the topology of CAN systems to set-up tree or star networks. The integrated galvanic isolation provides a built-in protection against over voltage.

IXXAT SG (Smart Grid) gateways
The IXXAT SG gateways are designed to enable communication between energy systems (e.g. IEC60870-5-104 and IEC61850) and industrial automation systems. It is specifically suitable for Demand Response and Virtual Power Plants.

IXXAT USB-to-CAN V2
These USB-to-CAN interfaces enable development of customized PC-based applications and are supported by the IXXAT tool suite (canAnalyser and driver packages for the ODVA DeviceNet Conformance Test).

Remote solutions

With eWON Remote Solutions, you can configure or control Schneider Electric devices just as if you were on site. Simply connect an eWON router to your Schneider PLC or machine and you can do programming or commissioning from any location using your regular Schneider software tools.

Just like being on site!
eWON Cosy or Flexy allows you to open up a secure connection to remote machinery and devices. Through this connection, it is possible to do remote configuration, programming or debugging of your own device from any location. Once the communication tunnel is open, you use your standard configuration software such as for example Unity Pro.

eWON Cosy/Flexy:
Configure Schneider PLCs remotely with your standard tools
Connect a Cosy or Flexy router to your Schneider Electric PLC or machine. The gateway sends data via Ethernet or the cellular network. Configure just as if you were on site.

eWON Netbiter:
Remote monitoring and control of field equipment
A quick and easy way to get online access to remote machine parameters. You can get reports and statistics at any time and easily set up dashboards and alarms.
HMS and Schneider Electric — Collaboration examples

HMS and Schneider Electric have a long track record of working together to solve industrial communication issues. Below are some examples of communication solutions especially made for Schneider Electric.

Embedded connectivity for drives
Together, HMS and Schneider Electric have developed the so called CoPla module which enables Schneider Electric Altivar drives to communicate on PROFIBUS, DeviceNet, EtherCat, Ethernet/IP, Powerlink and PROFINET.

Brand labelled gateway
HMS and Schneider Electric have also jointly developed the LUFP gateway — a brand-labeled customization of the Anybus Communicator. The product enables Schneiders TeSys-U and ATV-drives to communicate with FIPIQ, Profibus and DeviceNet.

IXXAT CANopen stacks in the M340 PLC
For the Modicon 340, HMS’ IXXAT expertise has been used to implement CANopen protocol software and CANopen configuration components into the PLC.

Fieldbus communication for power controllers
Eurotherm by Schneider Electric used fieldbus communication interfaces from HMS to offer a wide range of comms protocols in their EPower products. EPower is a range of advanced power controllers which are proposed as optional modules, offering customers scalability, performance and network flexibility.

Technical services — With you all the way

Technical services from HMS are available to support Schneider Electric locally when moving from idea to fully implemented and deployed solution. HMS’ local offices are always nearby to offer for example:

Startup Assistance
This Application service is aimed at speeding up the process of getting started with our products. An expert assists you during the set-up, configuration and validation of your HMS product. This can either be done through a Live Virtual Session over the Internet or through a meeting.

Field trial Assistance
Get technical guidance during a field trial at site. An expert assists to guide during the installation and test of your HMS product in a real test application.

Product trainings
Learn more about using HMS products in a classroom training, online training or self-study using our how-to videos.

Always Free Tech Support
At HMS, technical support for standard products is FREE of charge and available from all HMS offices and distributors around the world. HMS has specialized development engineers, global technical support teams, and specific Schneider-trained sales staff, all dedicated to increasing your automation performance, raising productivity, decreasing product downtime and reducing your costs and efforts.
HMS Industrial Networks

Through the Anybus®, IXXAT® and eWON® brands and products, HMS Industrial Networks provides reliable solutions for industrial communication and remote management. HMS’s knowledgeable staff along with distributors and partners in over 50 countries worldwide, are there to help you and your business increase productivity and performance while lowering cost and time to market.

HMS Industrial Networks – worldwide

HMS - Sweden (HQ)
Tel.: +46 35 17 29 00 (Halmstad HQ)
Tel.: +46 35 17 29 24 (Västerås office)
E-mail: sales@hms-networks.com

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

HMS - France
Tel.: +33 368 368 034 (Mulhouse office)
E-mail: fr-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 - Switzerland
Tel.: +41 61 511342-0
E-mail: sales@hms-networks.ch

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

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