

Communicator™ CAN

The new Anybus Communicator CAN series makes it possible to integrate devices with a CAN port to all popular fieldbus and industrial Ethernet networks without the need for any hardware or software changes to your device. Industrial devices with CAN based protocols can be easily integrated into popular networks such as Profibus, DeviceNet, Modbus-RTU, ControlNet, Profinet, EtherNet/IP, EtherCAT and Modbus-TCP.



Availability

Downlink: CAN protocol

Uplink Slave/Adapter: See below

PartNo: Network:

AB7311	EtherCAT 2-port
AB7312	Profibus
AB7313	DeviceNet
AB7314	ControlNet
AB7315	CANopen
AB7316	Modbus RTU
AB7317	Profinet-IO 1-port
AB7318	EtherNet/IP 2-port
AB7319	Modbus-TCP 2-port
AB7320	Profinet-IRT 2-port
AB7321	CC-Link

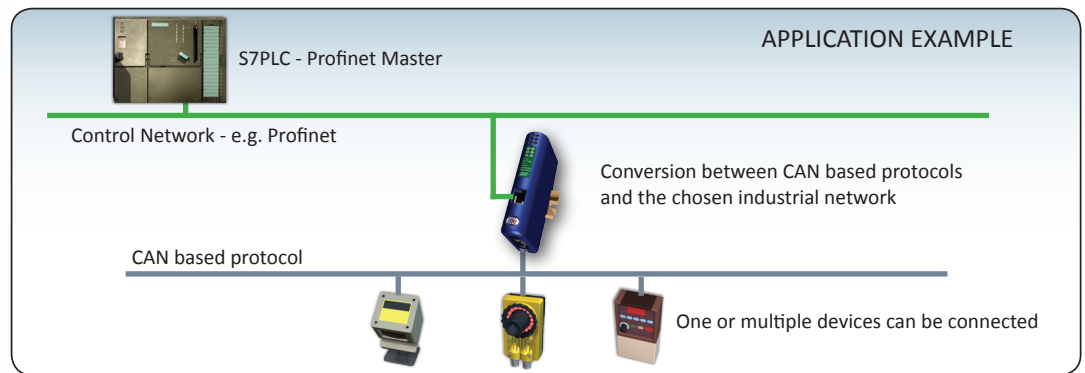
Typical usage

CAN is used with industrial applications in industries such as:

- Factory Automation
- Automotive Industry
- Machine Building
- Packaging
- Medical



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The Anybus Communicator CAN performs an intelligent conversion between a CAN based protocol of an automation device and the chosen fieldbus/Ethernet network.

The flexible CAN frame building method of the Communicator CAN makes it possible to configure almost any CAN-based Produce/Consume and Request/Response protocol used in the industry. All necessary configuration is performed using the Anybus Configuration Manager that accompanies the Communicator.

Features and benefits

- CAN protocol converter gateways connecting CAN devices to fieldbus/Ethernet networks
- Support for custom CAN 1.0, 2.0A and 2.0B protocols
- Handles mixed Produce/Consume and Request/Response protocols and transactions
- No hardware or software changes to your devices
- No PLC code or function blocks required
- Compatible with PLCs from all leading manufacturers
- Versions with Dual Port switched Ethernet allows for daisy chaining and eliminates external switches
- High performance, fast throughput, max 5 ms
- Anybus Configuration Manager included for easy visual CAN frame building

Flexible CAN configuration

Included with the Communicator CAN is the Anybus Configuration Manager. This unique, easy to use, visual CAN frame building tool requires no programming or scripting skills.

Containing prepared functionality for CAN frame building, the Anybus Configuration Manager can be connected via the USB port or via Ethernet for applicable versions.

The uplink fieldbus or Ethernet slave interface is configured using a standard device description file (GSD/EDS) in the PLC engineering tool.

User prerequisites

Knowledge of the CAN protocol to be converted/configured.

Fieldbus/Ethernet functionality

Anybus Communicator CAN supports a maximum data size of 512 byte input and 512 byte output data, including Control and Status words. The two gateway interfaces are firstly a configurable CAN interface, and secondly any one of 11 different fieldbus/Ethernet slave interfaces. All Communicator CAN versions with Ethernet have an integrated dual-port switch permitting daisy chaining and IT functions such as web server with SSI, E-mail client and FTP server.

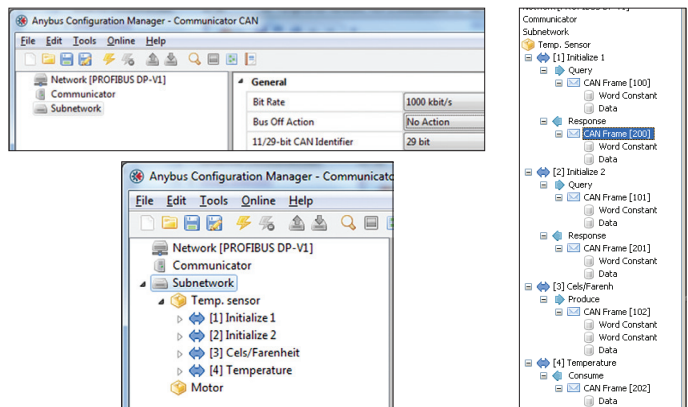
CAN features

- Up to 128 transactions containing a total of 256 CAN frames configured as Produce/Consume or Request/Response
- Allows mixed operation of Request/Response and Produce/Consume protocols
- Data copy between CAN nodes using different protocols
- Process data update modes include Cyclic/RTR/On data change/Single shot/Change of state on trigger
- Process data byte swap functionality
- Diagnostic functions: CAN transaction Live List in I/O data; CAN Line Listener; Config Tool Diagnostics

Data exchange

All data between the fieldbus and the CAN network is transferred through an internal memory buffer inside the Communicator. This method of data exchange also permits CAN devices with slow communication to be integrated into high-speed fieldbus/Ethernet networks without any restrictions.

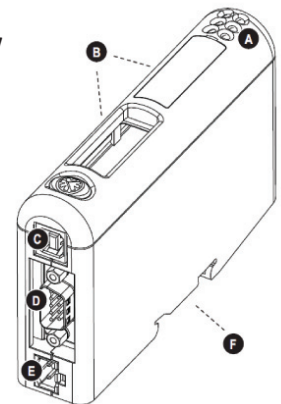
The Communicator appears as a standard I/O module on the fieldbus/Ethernet side.



MECHANICAL SPECIFICATIONS	
Width	110 x 35 x 101 mm (L x W x D)
Module Voltage	24 VDC (-15% to +20%)
Current Consumption	Typical 150 mA @ 24 V
Operating Temp	-25 to +55 °C
Mounting	DIN-rail, PE via DIN-rail
Protection Class	IP20
Certification	CE, RoHS, ATEX (Zone 2, Cat2), UL HazLoc (Class 1 Div 2), Marine IACS E10 DNV2.4 (Certifications Pending)
Conformance	Includes certified Anybus network interface technology

Communicator CAN external view

- A: Status LED's
- B: Fieldbus/Ethernet connector
- C: USB port (Type B)
- D: CAN connector (9-pin D-sub Male)
- E: 24 VDC power connector
- F: DIN-rail connector with PE



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