

# Communicator™ CAN

The Anybus Communicator CAN makes it possible to connect devices with a CAN port to all major fieldbus and industrial Ethernet networks. The Anybus Communicator CAN performs an intelligent conversion between a CAN-based protocol of an automation device and the chosen fieldbus/Ethernet network. The Communicator CAN is a compact gateway that consumes very little space in a switching cabinet and is easily mounted onto a standard DIN rail.



## Typical Industries



## In short

Allows industrial devices with CAN-based protocols to participate on all major networks such as PROFIBUS, DeviceNet, Modbus-RTU, ControlNet, PROFINET, EtherNet/IP, EtherCAT and Modbus-TCP.

## Availability

Downlink: CAN protocol

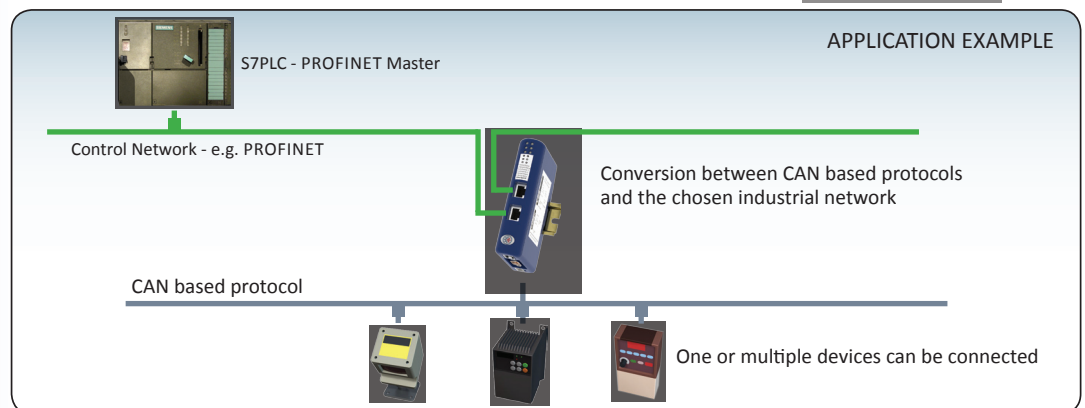
Uplink Slave/Adapter: See below

## Network: Part No:

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



HMS provides a full 3 year product guarantee



## 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 needed to your devices
- No PLC code or function blocks required
- Compatible with PLC's from all leading manufacturers
- Versions with Dual Port switched Ethernet allows for daisy chaining and eliminates the need for external switches
- High performance, fast throughput, max 5 ms
- Anybus Configuration Manager included for easy visual CAN frame building
- Dynamic transaction controlled by network master
- Global free technical support and consultancy
- See [www.anybus.com](http://www.anybus.com) for application notes and instruction videos on how to configure the gateway

## User prerequisites

Knowledge of the CAN protocol to be converted/configured.

## Flexible CAN configuration

Included free of charge with the Communicator CAN is the Anybus Configuration Manager. A unique, easy-to-use, visual CAN frame building tool that requires no programming or scripting skills. FDT/DTM based version of the Anybus Configuration Manager available

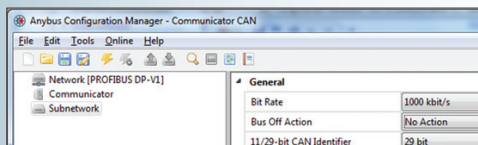
The flexible CAN frame building method of the Anybus Configuration Manager makes it possible to configure almost any CAN-based Produce/Consume and Request/Response protocol used in the industry.

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

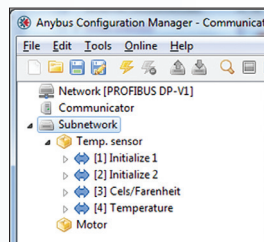
The uplink fieldbus or Ethernet slave interface is configured using a standard device description file (GSD/EDS) in the PLC engineering tool.

## TECHNICAL SPECIFICATIONS

Communicator CAN		
Protocol	Configurable CAN 1.0, 2.0A and 2.0B based protocols	
Baud rate	20 kbit/s - 1 Mbit/s	
Physical standards	CAN	
Technical Details		Standard
Weight	150 g, 0,33 lb	
Dimensions (L*W*H)	120*75*27 mm, 4,72*2,95*1,06"	
Protection class	IP20, NEMA rating 1	
Enclosure material	PC ABS, UL 94	
Installation position	Any	
Mounting	DIN rail (35*7,5/15)	EN 50022
Certifications		
UL	File number: E 203225	UL 508 Ind. Cont. Eq.
Hazardous Locations	CLASS 1, DIVISION 2, GROUPS A, B, C AND D, T4	ANSI/ISA-12.12.01-2000
ATEX	Zone 2, Cat 2 (except Modbus RTU)	EN 60079-15 EN 60079-11
CE	2004/108/EC	EN 61000-6-4 EN 61000-6-2
Electrical Characteristics		
Power	24 VDC +/- 10 %	
Current consumption	Max 300 mA, Typical 100 mA	
Hardware Characteristics		
Reverse voltage protection	Yes	
Short circuit protection	Yes	
Galvanic isolation on subnetwork	Yes	
Environmental Characteristics		
Operating temp	-25 to 55 °C, -13 to 131 °F	IEC 60068-2-1 IEC 60068-2-2
Storage temp	-40 to 85 °C, -40 to 185 °F	IEC 60068-2-1 IEC 60068-2-2
Relative Humidity	5-95 % non condensing	IEC 60068-2-30
Installation altitude	Up to 2 000 m	
Immunity and emission for industrial environment		
Electrostatic discharge	+/- 4 kV	EN 61000-4-2
Electromagnetic RF fields	10 V/m 80 MHz - 1 GHz 3 V/m 1,4 GHz - 2,0 GHz 1 V/m 2,0 GHz - 2,7 GHz	EN 61000-4-3
Fast Transients	+/- 1 kV	EN 61000-4-4
Surge protection	+/- 1 kV	EN 61000-4-5
RF conducted interference	10 V/rms	EN 61000-4-6
Emission (at 10 m)	40 dB 30 MHz - 230 MHz 47 dB 30 MHz - 1 GHz	CISPR 16-2-3
Single Pack Accessories		
• Resource CD • Configuration Cable (USB) Port • Installation sheet • Dsub with screw terminals for subnetwork		



The easy to use, visual based Anybus Configuration Manager contains pre-prepared functionality for CAN frame building that gets your devices up and running in no time.



## NETWORK SPECIFIC FEATURES

1 = Network connector, 2 = Baud rate,  
3 = I/O data, 4 = Other

<b>CANopen</b>	1 = DSUB9M 2 = Up to 1 Mbit/s 3 = 512 byte IN/OUT 4 = Supports profile CIA DS301 V4.02
<b>CC-Link</b>	1 = 1*5p; 5.08 Phoenix Plug 2 = Up to 10 Mbit/s 3 = 128 IO points, 16 word IN/OUT 4 = Up to 4 occupied stations
<b>ControlNet</b>	1 = 2*BNC Coax + RJ45 (NAP) 2 = 5 Mbit/s 3 = 450 byte IN/OUT 4 = Communications adapter, profile n. 12
<b>DeviceNet</b>	1 = 1*5p; 5.08 Phoenix Plug 2 = 125-500 kbit/s 3 = 512 byte IN/OUT 4 = Communications adapter, profile n. 12
<b>EtherCAT - 2 port</b>	1 = 2*RJ45 2 = 100 Mbit/s 3 = 512 byte IN/OUT 4 = DS301 V4.02 compliant, 4 FMMU Channels
<b>EtherNet/IP - 2 port</b>	1 = 2*RJ45 2 = 10/100 Mbit/s 3 = 509/505 byte IN/OUT 4 = EtherNet/IP group 2 and 3 server. Modbus TCP slave functionality
<b>Modbus RTU</b>	1 = DSUB9F 2 = 1,2-57,6 kbit/s 3 = 512 byte IN/OUT 4 = RS232 and RS485
<b>Modbus TCP - 2 port</b>	1 = 2*RJ45 2 = 10/100 Mbit/s 3 = 512 byte IN/OUT 4 = Security framework
<b>PROFIBUS</b>	1 = DSUB9F 2 = Up to 12 Mb 3 = 244 IN/OUT (344 total) 4 = Profibus DP (IEC 61158)
<b>PROFINET IO - 1 port</b>	1 = RJ45 2 = 100 Mbit/s 3 = 512 byte IN/OUT 4 = RT Communication and Cyclic data exchange
<b>PROFINET IRT - 2 port</b>	1 = 2*RJ45 2 = 100 Mbit/s 3 = 220 byte IN/OUT 4 = RT Communication and Support for I&M

