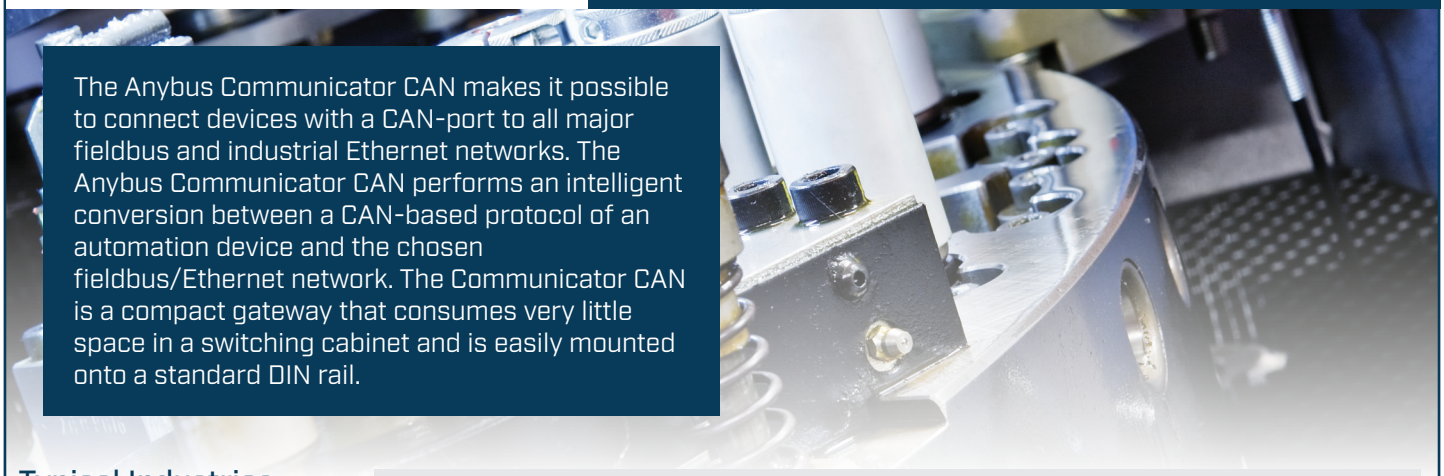
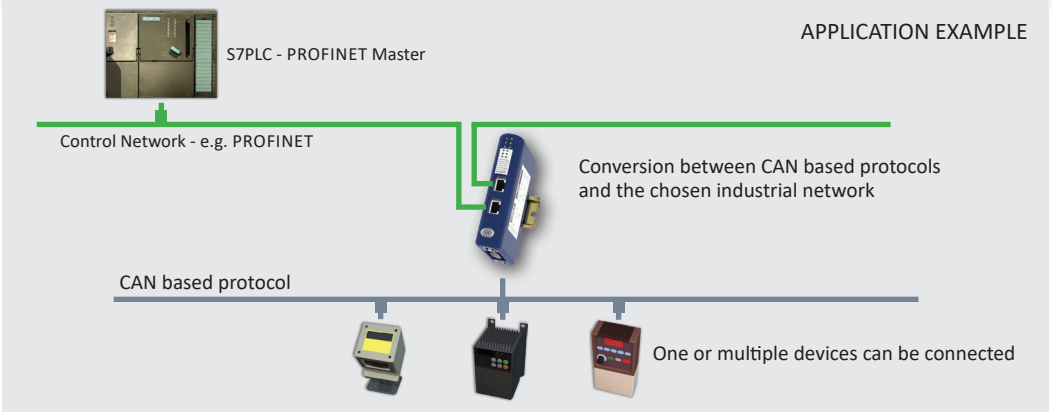
Anybus® BY HMS NETWORKS

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



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	AB7328

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 PLCs 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 for application notes and instruction videos on how to configure the gateway

Flexible CAN configuration

The included Anybus Configuration Manager is an easy-to-use, visual CAN frame building tool that requires no programming or scripting skills. FDT/DTM based version of the Anybus Configuration Manager are available.

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

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.

HMS provides a full 3 year product guarantee

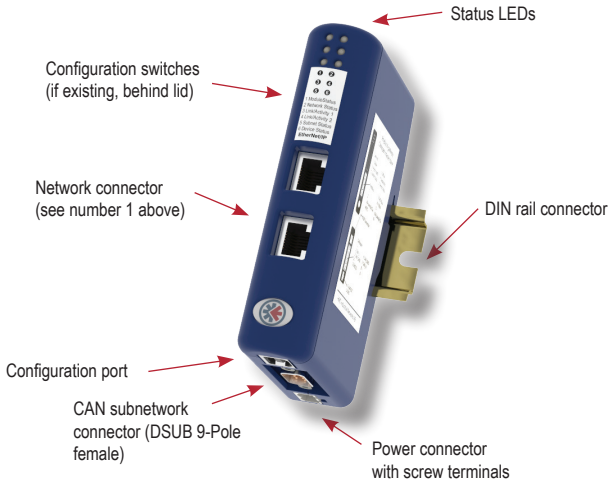
TECHNICAL SPECIFICATIONS

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		
• Configuration Cable (USB) Port • Installation sheet • Dsub with screw terminals for subnetwork		

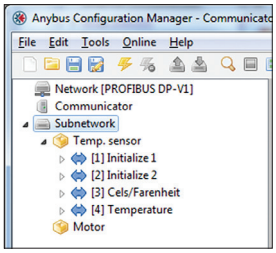
NETWORK SPECIFIC FEATURES

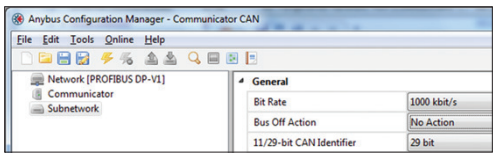
1 = Network connector, **2** = Baud rate,
3 = I/O data, **4** = Other

CANopen	**1** = DSUB9M **2** = Up to 1 Mbit/s **3** = 512 byte IN/OUT **4** = Supports profile CIA DS301 V4.02
CC-Link	**1** = 1*5p; 5.08 Phoenix Plug **2** = Up to 10 Mbit/s **3** = 896 IO points, 128 word IN/OUT **4** = Up to 4 occupied stations, 8 extension cycles
ControlNet	**1** = 2*BNC Coax + RJ45 (NAP) **2** = 5 Mbit/s **3** = 450 byte IN/OUT **4** = Communications adapter, profile n. 12
DeviceNet	**1** = 1*5p; 5.08 Phoenix Plug **2** = 125-500 kbit/s **3** = 512 byte IN/OUT **4** = Communications adapter, profile n. 12
EtherCAT - 2 port	**1** = 2*RJ45 **2** = 100 Mbit/s **3** = 512 byte IN/OUT **4** = DS301 V4.02 compliant, 4 FMMU Channels
EtherNet/IP - 2 port	**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
Modbus RTU	**1** = DSUB9F **2** = 1,2-57,6 kbit/s **3** = 512 byte IN/OUT **4** = RS232 and RS485
Modbus TCP - 2 port	**1** = 2*RJ45 **2** = 10/100 Mbit/s **3** = 512 byte IN/OUT **4** = Security framework
PROFIBUS	**1** = DSUB9F **2** = Up to 12 Mb **3** = 244 IN/OUT (344 total) **4** = Profibus DP (IEC 61158)
PROFINET IO - 1 port	**1** = RJ45 **2** = 100 Mbit/s **3** = 512 byte IN/OUT **4** = RT Communication and Cyclic data exchange
PROFINET IRT - 2 port	**1** = 2*RJ45 **2** = 100 Mbit/s **3** = 220 byte IN/OUT **4** = RT Communication and Support for I&M



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.





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