

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







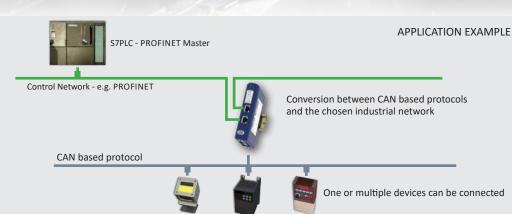












Availability

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

User prerequisites

Knowledge of the CAN protocol to be converted/configured.

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.



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 Fa Hazardous Locations CLASS 1, DIVISION 2, GROUPS A, B, C AND D, T4 ANSI/ISA-12.12.01-2000 ATEX Zone 2. Cat 3 EN 60079-15 (except Modbus RTU) EN 60079-11 EN 61000-6-4 EN 61000-6-2 CE 2004/108/EC **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 **Environmental Characteristics** -25 to 55 °C. -13 to 131 °F IEC 60068-2-1 Operating temp 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 EN 61000-4-2 Electromagnetic RF fields 10 V/m 80 MHz - 1 GHz EN 61000-4-3 3 V/m 1.4 GHz - 2.0 GHz 1 V/m 2,0 GHz - 2,7 GHz Fast Transients +/- 1 kV EN 61000-4-4 Surge protection +/- 1 kV EN 61000-4-5 EN 61000-4-6 RF conducted interference 10 V/rms 40 dB 30 MHz - 230 MHz CISPR 16-2-3 Emission (at 10 m) 47 dB 30 MHz - 1 GHz **Single Pack Accessories** • Configuration Cable (USB) Port • Installation sheet • Dsub with screw terminals for subnetwork

NETWORK SPECIFIC FEATURES

1 = Network connector, 2 = Baud rate,

- 1 port

PROFINET

IRT - 2 port

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 = RJ45 2 = 100 Mbit/s 3 = 512 byte IN/OUT	

4 = RT Communication and Cyclic data exchange

4 = RT Communication and Support for I&M

1 = 2*RJ45 2 = 100 Mbit/s 3 = 220 byte IN/OUT



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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