Anybus Communicator – CAN to PROFINET-IO

Item number: AB7317-B

The Anybus Communicator – CAN to PROFINET-IO converts CAN protocols to PROFINET-IO, enabling you to connect any CAN-based device or equipment to PROFINET-IO control systems. Anybus Communicators ensure reliable, secure, high-speed data transfers between different industrial networks while being easy to use.

A protocol converter that connects CAN devices to PROFINET-IO control systems.

Features and benefits

No hardware or software changes needed

Integrate your CAN-based industrial devices and equipment to a PROFINET-IRT control system without the need for any changes to the device. Just connect, configure and you're done!

Compatible

Convert CANopen, or any custom CAN 1.0, 2.0A, or 2.0B protocol, in just a few minutes.

3-year warranty

The Communicator is designed to be robust and long-lasting. A 3-year guarantee is provided.

Convert proprietary protocols

Converts Produce/Consume and Request/Response protocols and transactions.

Daisy chaining

Versions with Dual Port switched Ethernet allow for daisy chaining and eliminate the need for external switches.

Easy integration

No code or function blocks needed

CAN frame building

Use the Anybus Configuration Manager for easy visual CAN frame building.

Slim hardware design

The Communicator is designed for IP20 and DIN-rail mounting, enabling you to install it with ease, close to connected devices, thereby reducing wiring requirements.

Any PLC

Compatible with PLCs from all leading manufacturers

Save & Load

The Save/Load function enables a completed configuration to be re-used for other installations.

Trusted partner

Anybus has a long history of working with all the major network organizations to ensure compliant, high-performing, and compatible products.

Life cycle management

HMS maintains every part of the Communicator, including network updates, throughout the product's lifecycle.

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General

Net Width (mm)	27
Net Height (mm)	120
Net Depth (mm)	75
Net Weight (g)	300
Packed Width (mm)	15
Packed Height (mm)	6
Packed Depth (mm)	17
Packed Weight (g)	300
Operating Temperature °C Min	-25
Operating Temperature °C Max	55
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Current Consumption Type Value at Vcc Nom (mA)	100mA @ 24V DC
Current Consumption Max value at Vcc nom (mA)	250mA @ 24V DC
Input Voltage (V)	24V DC (-10% to +10%)
Power Connector	2-pin, 5.08 Phoenix plug connector
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Isolation	Yes

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General

Mounting	DIN-rail (EN 50022 standard)
Housing Materials	Plastic
Packaging Material	Cardboard

Identification and Status

Product ID	AB7317-B
Country of Origin	Sweden
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	5A991.b.1

Physical Features

Connectors / Input / Output	male 9-DSUB;2x RJ45
Contains Battery	No

CAN Features

CAN Supported Functionality	CAN standards 2.0A/2.0B (11 and 29 bit identifiers); 128 CAN transactions (total 256 CAN frames) - Produce, Consume, Query/Response; Cyclic, On Data Change, Single Shot, Trigger Byte update modes; Data Word Swap option
CAN Mode	Generic CAN
CAN Baud Rate	20 kBit/s to 1 Mbit/s

PROFINET Features

PROFINET Mode	Slave
PROFINET Supported Functionality	Soft Real-Time (RT); Max 64 slots / 1 sub-slot; DCP support; Acyclic Data exchange
PROFINET Conformance Class	Class B
PROFINET Configuration File	GSDML available
PROFINET Bandwidth	10/100Mbit full/half duplex down to 1ms
PROFINET Input Data Size	512 bytes

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PROFINET Features

PROFINET Output Data Size	512 bytes

Certifications and Standards

Protection Class IP	IP20
RoHS Compliant	Yes
Recycle / Disposal	Yes
CE	Yes
FCC	No
UL	Yes
UL Information	E214107: Ord.Loc UL508, CSA C22.2 NO. 142; E203225: Haz.Loc CL I DIV2 GP A,B,C,D T4, ANSI/ISA 12.12.01, CAN/CSA C22.2 No. 213, CAN/CSA C22.2 No. 142
ATEX	Yes
ATEX Information	II 3 G Ex nA ic IIC T4 Gc, EN 60079-0; EN60079-15; EN60079-11
EMC	Yes
Environment	EN 61000-6-4, EN 55016-2-3 Class A, EN 55022 Class A, EN 61000-6-2, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6
Waste Certification (WEEE)	Yes
WEEE Category	IT and telecommunications equipment