Anybus Communicator – CAN to PROFIBUS DP-V1

Item number: AB7312-B-5PACK

The Anybus Communicator – CAN to PROFIBUS DP-V1 converts CAN protocols to PROFIBUS, enabling you to connect any CAN-based device or equipment to PROFIBUS 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 PROFIBUS 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)	1000
Packed Width (mm)	19
Packed Height (mm)	13
Packed Depth (mm)	32
Packed Weight (g)	1000
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
Isolation	TRUE
Mounting	DIN-rail (EN 50022 standard)
Housing Materials	Plastic

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General

Packaging Material	Cardboard

Identification and Status

Product ID	AB7312-B-5PACK
Country of Origin	Sweden
HS Code	8517620000
Export Control Classification Number (ECCN)	5A991.b.3
Supply Risk Factor ERP	Used in Volume 01

Physical Features

Connectors / Input / Output	male 9-DSUB, 1x D-sub 9-pin female PROFIBUS connector
DIP & Rotary Switches	2x Rotary Address Node

CAN Features

CAN Mode	Generic CAN
CAN Baud Rate	20 kBit/s to 1 Mbit/s

CANopen Features

CANopen Mode	Generic CAN
CANopen Baud Rate	20 kBit/s to 1 Mbit/s
CANopen Supported Functionality	CAN standards 2.0A/2.0B; Byte swap; 128 CAN transactions; Produce / Consume; Cyclic, On data change, Single Shot, Trigger update modes;
CANopen Input Data Size	512 bytes
CANopen Output Data Size	512 bytes

PROFIBUS Features

PROFIBUS Mode	Slave
PROFIBUS Supported Functionality	PROFIBUS-DP/DPV1 Slave functionality according to extensions of EN 50170; Acyclic Communication (DP-V1, Class 1 & 2); Acyclic User Parameter data / Diagnostics length - up to 237 bytes; Sync; Freeze; Watchdog
PROFIBUS Device Address	0-125
PROFIBUS Configuration File	GSD available

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PROFIBUS Features

PROFIBUS Baud Rate	9600 bit/s - 12 Mbit/s
PROFIBUS Input Data Size	244 bytes (344 max tot in+out)
PROFIBUS Output Data Size	244 bytes (344 max tot in+out)

Certifications and Standards

Protection Class IP	IP20
Recycle / Disposal	TRUE
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 Information	II 3 G Ex nA ic IIC T4 Gc, EN 60079-0; EN60079-15; EN60079-11
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
WEEE Category	IT and telecommunications equipment