Anybus X-gateway – CANopen Master – PROFIBUS Slave

Item number: AB7301-B

The Anybus X-gateway CANopen Master to PROFIBUS Slave enables you to connect any CANopen Master device or equipment to PROFIBUS control systems. It can be used when there is no existing CANopen control system. Anybus gateways ensure reliable, secure, high-speed data transfers between different industrial networks while being easy to use.



A protocol converter that connects CANopen devices to PROFIBUS PLCs

Features and benefits

Reach new markets

Target new markets using different protocols without needing to change your hardware or software, thereby decreasing your time to market and development costs.

Slim hardware design

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

Easy configuration – No programming required!

Quickly establish the connection between the two networks with the included Anybus Configuration Manager software. No programming skills are required for the setup process.

Powerful

Up to 512 bytes of Input and Output data in each direction.

Life cycle management

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

No PLC card slot needed

The gateway does not use a card slot in the control system, leaving room for other equipment.

3-year warranty

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

Increased PLC performance

The gateway allows for fast transfer of cyclic I/O data between the two networks, offloading your PLC from working with additional calculations.

Trusted partner

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

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General

Net Width (mm)	27
Net Height (mm)	120
Net Depth (mm)	75
Net Weight (g)	150
Packed Width (mm)	135
Packed Height (mm)	55
Packed Depth (mm)	170
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	TRUE

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General

Content of Delivery	Gateway, quick start documentation, and connector terminals are included. Configuration software and Anybus OPC Server software are available for download.
Not Included (in delivery)	PLEASE NOTE: IXXAT USB-CAN configuration adapter (1.01.0281.12001) is not included and required for configuration of device. Power supply not included.
Mounting	DIN-rail (EN 50022 standard)
Housing Materials	Plastic
Packaging Material	Cardboard

Identification and Status

Product ID	AB7301-B
Country of Origin	Sweden
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN) (Applies only to the U.S)	5A991.b.3

Physical Features

Connectors / Input / Output	1x D-sub 9-pin male, 1x D-sub 9-pin female PROFIBUS connector
DIP & Rotary Switches	3x Rotary CAN Address + Baudrate, 2x Rotary Address Node
Contains Battery	No

CANopen Features

CANopen Mode	Master mode, Slave mode
CANopen Baud Rate	20 kbit/s - 1000 kbit/s
CANopen Supported Functionality	PDO; DS301 4.0.2; DSP302; EMCY; LSS; NMT; CMT; SYNC; Heart beat; Node guarding
CANopen No. Of Slaves	up to 126
CANopen Input Data Size	510 bytes
CANopen Output Data Size	510 bytes

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PROFIBUS Features

PROFIBUS Mode	DP Device
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
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
RoHS Compliant	Yes
Recycle / Disposal	TRUE
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 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