

# Anybus X-gateway – PROFIBUS Slave – PROFINET-IRT FO Device

Item number: AB7944-F

The Anybus X-gateway PROFIBUS Slave to PROFINET-IRT FO Device enables you to connect any PROFIBUS system to any PROFINET-IRT FO 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 PROFIBUS and PROFINET-IRT FO control systems*

## 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.
- ✓ **Trusted partner**  
Anybus has a long history of working with all the major network organizations to ensure compliant, high-performing, and compatible products.
- ✓ **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.
- ✓ **Life cycle management**  
HMS maintains every part of the gateway, including network updates, throughout the product's lifecycle.

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General	
Net Width (mm)	44
Net Height (mm)	127
Net Depth (mm)	114
Net Weight (g)	400
Packed Width (mm)	17
Packed Height (mm)	9
Packed Depth (mm)	19
Packed Weight (g)	600
Operating Temperature °C Min	-25
Operating Temperature °C Max	65
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Current Consumption Type Value at Vcc Nom (mA)	200mA @ 24V DC
Current Consumption Max value at Vcc nom (mA)	400mA @ 24V DC
Input Voltage (V)	24V DC (-20% to +20%)
Power Connector	2-pin, 5.08 Phoenix plug connector
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Isolation	TRUE



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General	
Mounting	DIN-rail (EN 50022 standard)
Housing Materials	Aluminium, Plastic
Packaging Material	Cardboard
Identification and Status	
Product ID	AB7944-F
Country of Origin	Sweden
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	5A991.b.1
Physical Features	
Connectors / Input / Output	2x SC-RJ Fiber Optic, 1x D-sub 9-pin female PROFIBUS connector, USB-B Config port
DIP & Rotary Switches	2x Rotary Address Node
Contains Battery	No
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)
PROFINET Features	
PROFINET Mode	Slave

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## PROFINET Features

<b>PROFINET Supported Functionality</b>	IRT; Acyclic Data exchange; SNMP-MIBII; I&M; LLDP
<b>PROFINET Conformance Class</b>	Class A, Class B, Class C
<b>PROFINET Configuration File</b>	GSDML available
<b>PROFINET Bandwidth</b>	100 Mbit/s fixed
<b>PROFINET Input Data Size</b>	220 bytes
<b>PROFINET Output Data Size</b>	220 bytes

## Certifications and Standards

<b>Protection Class IP</b>	IP20
<b>RoHS Compliant</b>	Yes
<b>Recycle / Disposal</b>	TRUE
<b>CE</b>	Yes
<b>FCC</b>	No
<b>UL</b>	Yes
<b>UL Information</b>	E214107: Ord.Loc UL508, CSA C22.2 NO. 142
<b>EMC</b>	Yes
<b>Environment</b>	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
<b>Waste Certification (WEEE)</b>	Yes
<b>WEEE Category</b>	IT and telecommunications equipment