



Anybus .NET Bridge – PROFINET to .NET Bridge

Item number: AB9077-C

The Anybus PROFINET to .NET Bridge converts PROFINET to C#, enabling you to connect any PROFINET PLC control system with any .NET solution on a PC. The .NET Bridge uses simulators and code generators to simplify integration.



Connect a function block in a PLC and a .NET solution on a PC.

Features and benefits

- ✓ **Connect OT and IT**
The .NET Gateways enable PLC control systems to connect with .NET solutions, integrating OT and IT.
- ✓ **Maximum Performance with Streamer Mode**
For applications requiring minimum delay and maximum performance, the .NET Bridge can be used in streamer mode, where data streams are exchanged directly without any handshake.
- ✓ **3-year warranty**
The .NET Bridges are designed to be robust and long-lasting. A 3-year guarantee is provided.
- ✓ **Large data communication**
Supports 65535 different message types, each with a unique ID. The max message size is 251 bytes. Messages are sent sequentially over the same IO data facilitating large data communication.
- ✓ **Life cycle management**
HMS maintains every part of the .NET Gateways, including network updates, throughout the product’s lifecycle.
- ✓ **Code generator**
The Anybus .NET Bridge Code Generator creates C# files for the .NET programmer and PLC files for the PLC programmer according to a defined spreadsheet.
- ✓ **Simulators**
The configuration software includes two simulators — a PLC simulator for the .NET programmer and a .NET simulator for the PLC programmer.
- ✓ **Easy-to-use interface for the PLC programmer**
A function block, provided by Anybus, manages the handshake on the PLC side and provides an easy-to-use interface for the PLC programmer.
- ✓ **Automatic configuration setup**
If a bridge needs to be replaced, the .NET application will automatically set up the configuration.



Anybus .NET Bridge – PROFINET to .NET Bridge

General	
Net Width (mm)	35
Net Height (mm)	110
Net Depth (mm)	101
Net Weight (g)	252
Packed Weight (g)	504
Operating Temperature °C Min	-25
Operating Temperature °C Max	60
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Current Consumption Type Value at Vcc Nom (mA)	150mA @ 24V DC
Current Consumption Max value at Vcc nom (mA)	300mA @ 24V DC
Input Voltage (V)	24V DC (-15% to +20%)
Power Connector	3-pin, 5.08 Phoenix plug connector
Isolation	TRUE
Mounting	DIN-rail (EN 50022 standard)
Housing Materials	Plastic
Packaging Material	Cardboard
Identification and Status	
Product ID	AB9077-C
Country of Origin	Sweden



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Identification and Status

HS Code	8517620000
Export Control Classification Number (ECCN)	5A991.b.1
Supply Risk Factor ERP	Used in Volume 01

Physical Features

Connectors / Input / Output	2xRJ45, 2x RJ45
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PROFINET Features

PROFINET Configuration File	GSDML available
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Certifications and Standards

Protection Class IP	IP20
Recycle / Disposal	TRUE
UL Information	E214107: Ord.Loc UL 61010-1, UL 61010-2-201, CSA C22.2 NO. 61010-1-12, CSA C22.2 NO. 61010-2-201:14; E203225: Haz.Loc CL I DIV2 GP A,B,C,D T4, ANSI/ISA 12.12.01, ANSI/ISA 12.12.01
ATEX Information	II 3 G Ex nA IIC T4 Gc, EN IEC 60079-0; EN 60079-15
Environment	EN 61000-6-4, EN 55016-2-3 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



Use Case

