



Anybus .NET Bridge – EtherNet/IP to .NET Bridge

Item number: AB9078-C

The Anybus PROFINET to .NET Bridge converts EtherNet/IP to C#, enabling you to connect any EtherNet/IP 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.



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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
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Isolation	TRUE
Mounting	DIN-rail (EN 50022 standard)
Housing Materials	Plastic
Packaging Material	Cardboard



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Identification and Status

Product ID	AB9078-C
Country of Origin	Sweden
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	5A991.b.1

Physical Features

Connectors / Input / Output	2xRJ45, 2xRJ45
Contains Battery	No

EtherNet/IP Features

EtherNet/IP Mode	Adapter / Slave
EtherNet/IP Configuration File	EDS available
EtherNet/IP Bandwidth	10/100MBit
EtherNet/IP Input Data Size	1448 bytes
EtherNet/IP Output Data Size	1448 bytes

Certifications and Standards

Protection Class IP	IP20
RoHS Compliant	Yes
Recycle / Disposal	TRUE
CE	Yes
FCC	No
UL	Yes
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



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Certifications and Standards	
ATEX Information	II 3 G Ex nA IIC T4 Gc, EN IEC 60079-0; EN 60079-15
EMC	Yes
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
Waste Certification (WEEE)	Yes
WEEE Category	IT and telecommunications equipment