

Anybus X-gateway – EtherCAT Slave - PROFINET- IRT FO Device

Item number: AB7970-F

The Anybus X-gateway EtherCAT Slave to PROFINET-IRT FO Device enables you to connect any EtherCAT 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 EtherCAT 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	AB7970-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, 2xRJ45, USB-B Config port
Contains Battery	No

EtherCAT Features

EtherCAT Mode	Slave / SubDevice
EtherCAT Supported Functionality	COE (Can Over EtherCAT); PDO, SDO
EtherCAT Configuration File	ESI available
EtherCAT Bandwidth	10/100 Mbit
EtherCAT Input Data Size	512 bytes
EtherCAT Output Data Size	512 bytes

PROFINET Features

PROFINET Mode	Slave
PROFINET Supported Functionality	IRT; Acyclic Data exchange; SNMP-MIBII; I&M; LLDP
PROFINET Conformance Class	Class A, Class B, Class C

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PROFINET Features

PROFINET Configuration File	GSDML available
PROFINET Bandwidth	100 Mbit/s fixed
PROFINET Input Data Size	220 bytes
PROFINET Output Data Size	220 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 UL508, CSA C22.2 NO. 142
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



Use Case

