

X-gateway™

The Anybus X-gateway family consists of over 200 gateways which connect any two industrial networks.

The robust Anybus X-gateways allow system integrators to easily transfer I/O data between devices on two different PLC systems and networks, enabling a consistent information flow throughout the entire plant.



Typical Industries



Master versions supporting:

AS-Interface
DeviceNet
EtherNet/IP
PROFIBUS

Slave versions supporting:

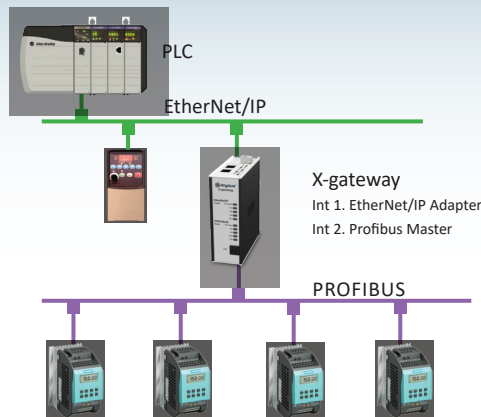
CANopen
CC-Link
CC-Link IE Field
ControlNet
DeviceNet
EtherCAT
EtherNet/IP
FIPIO
Interbus RS485 + Fiber Optic
J1939*
LonWorks
Modbus Plus
Modbus RTU
Modbus-TCP
POWERLINK
PROFIBUS
PROFINET IO
PROFINET IRT Copper + Fibre Optic

Accessories:

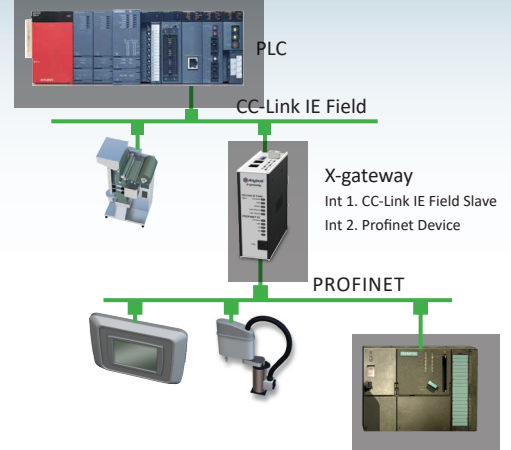
Extra Wide DIN-clip for flat mounting
- order number SP1784

*available in a different formfactor housing

EXAMPLE: FIELDBUS TO ETHERNET



EXAMPLE: ETHERNET TO ETHERNET



Features and Benefits

- Any easy way to transmit I/O data between any two industrial networks
- Over 200 different network combinations (master, scanner, slave, adapter, I/O device, server)
- Connects different PLC systems (Siemens, Rockwell, Schneider, Mitsubishi, Omron, Beckhoff etc)
- I/O data transfer with average throughput between networks of 10 - 15 ms
- Additional parameter data supported (depending on network combination)
- Optional control and status information added to the I/O data for diagnostic purposes
- Included Anybus OPC server for extended functionality with Ethernet versions
- Anybus master configuration tool included free of charge with a Profibus, DeviceNet or EtherNet/IP Master/Scanner
- Robust stand-alone housing with CE and UL certifications
- Global free technical support and consultancy
- See www.anybus.com for application notes and instruction videos on how to configure the X-gateways

Easy Configuration

No programming is needed to set up the X-gateway.

The configuration is made using the Anybus Configuration Manager which is included in the product. You install this Windows tool on your PC and connect the included USB cable to the configuration port of the X-gateway. The Anybus Configuration Manager X-gateway is available at www.anybus.com

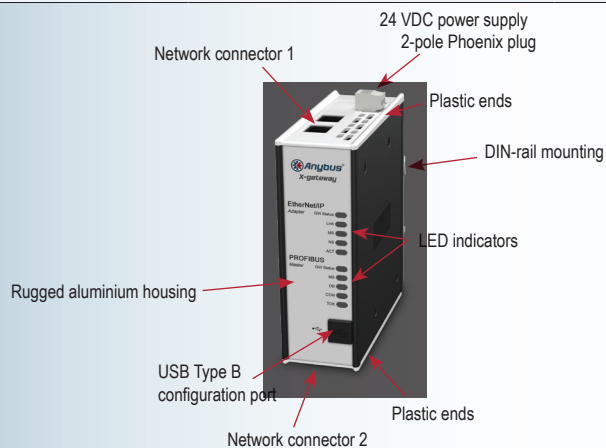
The easy-to-use Anybus Configuration Manager X-gateway allows you to define the I/O data sizes on each network side and to define the data mapping and separation between cyclic I/O data and parameter data.



HMS provides a full 3 year product guarantee

TECHNICAL SPECIFICATIONS

Technical Details		Standard
Weight	400 g, 0,880 lb	
Dimensions (L-W-H)	114*44*127 mm, 4,49*1,73*5,00"	
Protection class	IP20, NEMA rating 1	
Enclosure material	Aluminium and plastic	
Installation position	Vertical position	
Mounting	DIN rail (35*7,5/15)	EN 50022
Certifications		
UL	File number: E203225	UL 508 Ind. Cont. Eq.
Hazardous Locations	CLASS 1, DIVISION 2, GROUPS A, B, C AND D, T4	ISA 12.12.01
ATEX	Zone 2, Cat 3	EN 60079-0:2012+A11:2013 EN 60079-15:2010
CE	2014/30/EU (EMC)	EN61000-6-4 (2007) EN61000-6-2 (2005)
Electrical Characteristics		
Power	24 VDC +/- 20 %	
Current consumption	Max 400mA at 24VDC, Typical 200 mA at 24VDC	
Hardware Characteristics		
Reverse voltage protection	Yes	
Short circuit protection	Yes	
Environmental Characteristics		
Operating temp	-25 to 65 °C, -13 to 149 °F (for all other networks) -25 to 50 °C, -13 to 122 °F (only for Profinet IRT Fibre Optic)	IEC 68-2-1, IEC 68-2-2
Storage temp	-40 to 85 °C, -40 to 185 °F	IEC 68-2-1, IEC 68-2-2
Relative Humidity	5-95 % non condensing	IEC 68-2-30
Installation altitude	Up to 2 000 m	
Immunity and Emission for Industrial Environment		
Electrostatic discharge	+/- 4 kV	EN 61000-4-2
Electromagnetic RF fields	10 V/m 80 MHz - 1 GHz 3 V/m 1,4 GHz - 2,0 GHz 1 V/m 2,0 GHz - 2,7 GHz	EN 61000-4-3
Fast Transients	+/- 1 kV	EN 61000-4-4
Surge protection	+/- 1 kV	EN 61000-4-5
RF conducted interference	10 V/rms	EN 61000-4-6
Emission (at 3 m)	50 dB 30 MHz - 230 MHz 57 dB 30 MHz - 1 GHz	EN 55016-2-3
Single Pack Accessories		
• Configuration Cable (USB) • Installation sheet		



NETWORK SPECIFIC FEATURES



1 = Network connector, 2 = Baud rate,
3 = I/O data, 4 = Other, 5 = Amount of slaves / adapters

MASTER	
ASI	1 = 2*2p; 5,08 Phoenix Plug 2 = 167 kbit/s 3 = 248/186 (digital input/output) 4 = ASI version 3.0 5 = 62
DeviceNet	1 = 5*5p; 5,08 Phoenix Plug 2 = 125-500 kbit/s 3 = 512 byte IN/OUT 4 = DeviceNet 2.0 scanner 5 = 63
EtherNet/IP	1 = RJ45 2 = 10/100 Mbit/s 3 = 509/505 byte IN/OUT 4 = FTP Server, Web Server, SMTP Client 5 = 64
PROFIBUS	1 = DSUB9F 2 = Up to 12 Mb 3 = 512 byte IN/OUT 4 = Profibus DP (IEC 61158) 5 = 125
SLAVE	
CANopen	1 = DSUB9M 2 = Up to 1 Mbit/s 3 = 512 byte IN/OUT 4 = Supports profile CIA DS301 V4.02
CC-Link	1 = 1*5p; 5,08 Phoenix Plug 2 = Up to 10 Mbit/s 3 = 896 IO points, 128 word IN/OUT 4 = Up to 4 occupied stations
CC-Link IE Field	1 = 2*RJ45 2 = Up to 1 Gbp/s 3 = 512 byte IN/OUT 4 = CC-Link IE Field Network intelligent device station
ControlNet	1 = 2*BNC Coax + RJ45 (NAP) 2 = 5 Mbit/s 3 = 450 byte IN/OUT 4 = Communications adapter, profile n. 12
DeviceNet	1 = 1*5p; 5,08 Phoenix Plug 2 = 125-500 kbit/s 3 = 512 byte IN/OUT 4 = Communications adapter, profile n. 12
EtherCAT	1 = 2*RJ45 2 = 100 Mbit/s 3 = 512 byte IN/OUT 4 = DS301 V4.02 compliant, 4 FMMU Channels
EtherNet/IP	1 = 2*RJ45 2 = 10/100 Mbit/s 3 = 509/505 byte IN/OUT 4 = EtherNet/IP group 2 and 3 server. Modbus TCP slave functionality
FIPIO	1 = DSUB9M 2 = 1 Mbit/s 3 = 32 words IN/OUT 4 = Data exchange according to FIPIO Extended Device Profile, Class 0
Interbus RS485	1 = DSUB9F + DSUB9M 2 = 500 kbit/s, 2 Mbit/s 3 = 20 byte IN/OUT (process data), 512 bytes IN/OUT (with PCP) 4 = PCP V.2.0 (0 or 1 word)
Interbus Fibre Optic	1 = HFBR-2505C, HFBR-1505C 2 = 500 kbit/s, 2 Mbit/s 3 = 20 byte IN/OUT (process data), 512 bytes IN/OUT (with PCP) 4 = IEC874-2 and DIN47258
J1939	1 = 1*5p; 5,08 Phoenix Plug (Profibus / EtherNet/IP / Modbus-TCP) DSUB15M (Modbus RTU) 2 = - 3 = 2048 bytes IN/OUT (Modbus RTU), 248-500 (EtherNet/IP), Modbus TCP 499/495 bytes Profibus 4 = SAEJ1939
LonWorks	1 = 1*5p; 5,08 Phoenix Plug 2 = 78 kbit/s 3 = 256 network variables in/out 4 = Lonmark objects handling
Modbus Plus	1 = DSUB9F 2 = 1 Mbit/s 3 = 32 words IN/OUT (global data) 4 = Modbus Plus Host Firmware Rev. 77
Modbus RTU	1 = DSUB9F 2 = 1,2-57,6 kbit/s 3 = 256 registers in each direction 4 = RS232 and RS485
Modbus TCP	1 = 2*RJ45 2 = 10/100 Mbit/s 3 = 512 byte IN/OUT 4 = Supports EtherNet/IP
POWERLINK	1 = 2*RJ45 2 = 100 Mbit/s 3 = 254 byte IN/OUT
PROFIBUS	1 = DSUB9F 2 = Up to 12 Mbit/s 3 = Up to 244 bytes data using DP / Up to 512 bytes using DPV1 (Max 344 bytes in+out) 4 = Profibus DP (IEC 61158)
PROFINET-IO	1 = RJ45 2 = 10/100 Mbit/s 3 = 512 byte IN/OUT 4 = RT Communication and Cyclic data exchange
PROFINETIRT	1 = 2*RJ45 2 = 100 Mbit/s 3 = 512 byte IN/OUT 4 = RT Communication and integrated IRT switch functionality
PROFINETIRT Fibre Optics	1 = 2*SC-RJ FO connectors 2 = 100 Mbit/s 3 = 220 byte IN/OUT 4 = RT Communication and integrated IRT switch functionality

