

X-gateway™ CANopen®

With the Anybus X-gateway CANopen, HMS makes it possible to integrate CANopen devices into almost any other PLC system and their supported networks. The X-gateway CANopen series provide CANopen Master (Manager) /Slave connectivity to all popular fieldbus and industrial Ethernet networks. The fact that Anybus X-gateways combine high reliability and flexibility make them indispensible connectivity tools for system integrators and plant operators within all industries.



Typical Industries

















In-short

Every product in of the Anybus X-gateway CANopen family is equipped with a CANopen Master (Manager) interface. The second network interface can be selected from the list below:

Network:	PartNo:
CANopen	AB7304
ControlNet	AB7303
DeviceNet	AB7302
EtherCAT	AB7300
EtherNet/IP 2-port	AB7306
Modbus RTU	AB7305
Modbus TCP 2-port	AB7308
PROFIBUS	AB7301
PROFINET IO	AB7307
PROFINET IRT 2-port	AB7309

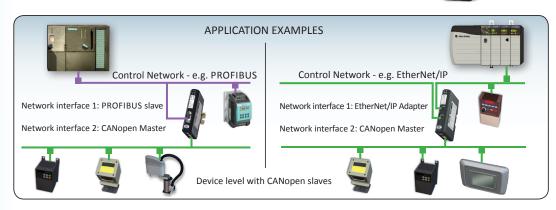
Accessories:

A CANopen-to-USB configuration adapter including software and documentation on CD can be ordered separately.

Anybus Configuration Manager - CANopen Configuration Kit 021670 Includes: License, CD, USB-CAN adapter



HMS provides a full 3 year product guarantee



The Anybus X-gateway CANopen family act as intelligent links between two industrial networks. X-gateway CANopen combines simplicity and usability with industrial robustness, making communication across different industrial network types easy and reliable. The X-gateways are easily integrated into any kind of industrial automation system, ensuring a seamless information flow between CANopen and 10 other fieldbus / Ethernet networks.

Features and Benefits

- Provides CANopen Master or Slave functionality on one side, and fieldbus/Ethernet slave functionality on the other side
- Allows transparent transfer of I/O data between CANopen and another network
- CANopen master functionality allows connection of up to 126 CANopen slaves
- Dual port Ethernet with switch functionality for EtherNet/IP, Modbus-TCP and PROFINET IRT versions
- Ethernet verions with IT functions such as dynamic Web server, supporting downloadable customer specific web
- **CANopen NMT Master and Configuration Manager** functionality

CANopen Configuration

The X-gateway CANopen can be configurared with the "Anybus Configuration Manager CANopen " which is included in the price of the X-gateway and can be downloaded from www.anybus.com.

The PC connect to the CANopen network via a USB-CAN adapter (ordered separately)

In addition, any standard CANopen configuration tool can be used to configure the CANopen interface.

The uplink fieldbus or Ethernet slave interface is configured with a standard device description file (GSD/EDS) and the standard engineering tool of the PLC. No programming required.



TECHNICAL SPECIFICATIONS

gateway CANopen		
Max amount of slaves	126	
CANopen network connector	DSUB9M	
Baud rate	Up to 1 Mbit/s	
I/O data	128 PDOs Receive/128 PDOsTransmit, 510 bytes IN/OU	Т
Extras	CANopen specification DS301 v4.0.2	
echnical Details		Standard
Weight	150 g, 0,33 lb	
Dimensions (L•W•H)	120•75•27 mm, 4,72•2,95•1,06"	
Protection class	IP20, NEMA rating 1	
Enclosure material	PC ABS, UL 94	
Installation position	Any	
Mounting	DIN rail (35•7,5/15)	EN 50022
ertifications		
UL	File number: E203225	UL 508 Ind. Cont. Eq.
Hazardous Locations	CLASS 1, DIVISION 2, GROUPS A, B, C AND D, T4	ANSI/ISA-12.12.01-20
ATEX	Zone 2, Cat 2	EN 60079-15
	(except Modbus RTU)	EN 60079-11
CE	2004/108/EC	EN 61000-6-4 EN 61000-6-2
ectrical Characteristics		
Power	24 VDC +/- 10 %	
Current consumption	Typical 150 mA	
ardware Characteristics	.	
Reverse voltage protection	Yes	
Short circuit protection	Yes	
Galvanic isolation on subnetwork	Yes	
nvironmental Character	istics	
Operating temp	-25 to 55 °C, -13 to 131 °F	IEC 60068-2-1 IEC 60068-2-2
Storage temp	-40 to 85 °C, -40 to 185 °F	IEC 60068-2-1 IEC 60068-2-2
Relative Humidity	5-95 % non condensing	IEC 60068-2-30
Installation altitude	Up to 2 000 m	
nmunity and Emission f	or Industrial Environment	
Electrostatic discharge	+/- 4 kV	EN 61000-4-2
Electromagnetic RF fields	10 V/m 80 MHz - 1 GHz	EN 61000-4-3
	3 V/m 1,4 GHz - 2,0 GHz 1 V/m 2,0 GHz - 2,7 GHz	
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 10 m)	40 dB 30 MHz - 230 MHz 47 dB 30 MHz - 1 GHz	EN 55016-2-3
ngle Pack Accessories		

NETWORK SPECIFIC FEATURES

- 1 = Network connector, 2 = Baud rate,
- 3 = I/O data, 4 = Other

SLAVE / ADAPTER / SERVER / DEVICE	
CANopen	1 = DSUB9M 2 = Up to 1 Mbit/s 3 = 510 byte IN/OUT 4 = Supports profile CIA DS301 V4.02
ControlNet	1 = 2*BNC Coax + RJ45 (NAP) 2 = 5 Mbit/s 3 = 450 byte IN/OUT 4 = Media redundancy support
DeviceNet	1 = 5*5p; 5.08 Phoenix Plug 2 = 125-500 kbit/s 3 = 510 byte IN/OUT 4 = Unconnected Message Manager
EtherCAT - 2 port	1 = 2*RJ45 2 = 100 Mbit/s 3 = 510 byte IN/OUT 4 = DS301 V4.02 compliant
EtherNet/IP - 2 port	1 = 2*RJ45 2 = 10/100 Mbit/s 3 = 510 byte IN/OUT 4 = Device Level Ring (DLR)
Modbus RTU	1 = DSUB9F 2 = 1,2-57,6 kbit/s 3 = 510 byte IN/OUT 4 = RS232 and RS485
Modbus-TCP - 2 port	1 = 2*RJ45 2 = 10/100 Mbit/s 3 = 510 byte IN/OUT 4 = Security framework
PROFIBUS	1 = DSUB9F 2 = Up to 12 Mbit/s 3 = 244 IN/OUT (328 total) 4 = Profibus DP (IEC 61158)
PROFINET IO	1 = RJ45 2 = 100 Mbit/s 3 = 510 byte IN/OUT 4 = RT Communication and Cyclic data exchange
PROFINET IRT - 2 port	1 = 2*RJ45 2 = 100 Mbit/s 3 = 218 byte IN/OUT 4 = RT and IRT Communication



HMS Industrial Networks - Worldwide

• Resource CD • Installation sheet • DSUB with screw terminals for subnetwork

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