



Anybus X-gateway – PROFIBUS Slave - J1939

The Anybus X-gateway J1939 Gateway provides connectivity between a PROFIBUS network and a J1939 Heavy Duty vehicle (CAN) network. The X-gateway appears as a PROFIBUS-DP Slave device allowing a PROFIBUS Master to read or write data from the J1939 network.

EASY CONFIGURATION - NO PROGRAMMING REQUIRED!

HMS provides the X-gateway with a free Windows based configuration tool (BWConfig). This PC based software allows the user to map J1939 parameter (PGN) data into a range of memory addressable through the Anybus X-gateway PROFIBUS-DP interface.



Configuration of the X-gateway is simple using BWConfig and consists of setting up an I/O table containing selected J1939 PGNs and the rate that each will be read or written from the J1939 network. BWConfig will then automatically map the I/O table to a range of addresses accessible from the X-gateway PROFIBUS interface.

The configuration is downloaded from the PC to the Anybus X-gateway via an RS232 connection and is saved in FLASH memory.

Features and benefits

- Monitor and control data on a J1939 heavy duty vehicle network from PROFIBUS PLC system or device
- Typical applications: Electric Power Generation, Oil & Gas, Marine, Military, Heavy Duty Vehicles, Any Diesel Engine based system supporting J1939
- Max 500 bytes of I/O data in each direction
- Easy configuration via the included BWConfig Windows Software. No programming required
- Robust aluminum stand-alone housing
- Global free technical support and consultancy

PROFIBUS Slave interface

PROFIBUS Slave settings can be made either via on-board switches, or by importing the provided .GSD file into engineering tool of the controlling PLC.

- Complete PROFIBUS-DP/DPV1 Slave functionality according to extensions of EN 50170
- Supports Class 1 & Class 2 services
- Automatic baudrate detection up to 12Mbit/s
- Max. Cyclic I/O data 244 bytes Input and 244 bytes Output, max 344 bytes total (in+out)
- Acyclic User Parameter data / Diagnostics length - up to 237 bytes
- Supports PROFIBUS features: Sync and Freeze and Watchdog
- PROFIBUS slave settings via on-board switches or via .GSD file

- 1x D-sub 9-pin female PROFIBUS connector

J1939 interface

- SAE J1939 network interface with a unique network address in accordance to the J1939-81 specification
- Max 496 bytes of I/O Input data and 492 bytes of I/O Output Data
- Up to 120 PGN's monitored by Input data points
- Up to 100 PGN's transmitted by Output data points
- Supports J1939 network baud rates of 250K and 500K
- Transmission and reception of all types of fixed-length J1939 messages, including PDU1, PDU2, broadcast and destination specific
- Monitoring of DM1 (active diagnostics) and DM2 (previously active diagnostics) messages
- Complete network address management including address claim, protection, and yield on higher priority conflict
- Network address can be self-configurable over a range of addresses
- J1939 Transport Protocol for transmission and reception of large messages (9 - 1785 bytes). Both connection based (RTS/CTS) and broadcast (BAM) are supported
- Configurable CAN bus-off reset option will reset the network interface and attempt to return to online when a CAN bus-off condition is detected
- 1x 5-pole 5.08 mm Phoenix pluggable screw connector for J1939

TECHNICAL SPECIFICATIONS

Dimensions (L•W•H)	114 x 44 x 127mm or 4,49 x 1,73 x 5,00"
Weight	400g or 0,880 lbs
Operating temperature	-25 to +65 °C or -13 to +149 °F
Storage temperature	-40 to +85 °C or -40 to +185 °F
Power supply	24 VDC +/- 20% via 2-pole 5.08 mm Phoenix pluggable screw connector
Current consumption	max. 400mA (Typical 200mA)
Enclosure material	Aluminium and plastic
Installation position	Vertical / Flat*
Galvanic isolation	YES, on both BUS/Ethernet side
Mechanical rating	IP20, NEMA rating 1
Mounting	DIN-rail (EN 50022 standard)
I/O configuration	via USB port with Anybus Configuration Manager software
Certifications	CE, CULUS, RoHS

File	Version	Size	Read online
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Ordering information

Order Code	AB7615
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Included components	Gateway Quick start documentation Power supply not included Configuration software is available for download.
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3 year guarantee. For purchasing instructions and terms and conditions, see: [How to buy](#).

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