



Anybus X-gateway – PROFIBUS Master – PROFIBUS Slave

The Anybus X-gateway allows you to seamlessly inter-connect/extend PLC control systems and their connected devices on two PROFIBUS networks.

FAST COPYING OF I/O DATA

The X-gateways primary function is with the fast transfer of cyclic I/O data between the two networks. This offloads your PLC from working with additional calculations. The gateway acts as a Master on one side of the PROFIBUS network and a Slave on other side and provides a simple network extension. The data transmission is completely transparent with a maximum data capacity of 512 bytes in each direction.

EASY CONFIGURATION - NO PROGRAMMING REQUIRED!

The connection between the two networks is quickly set up in the Anybus Configuration Manager software, included with the X-gateway. No programming skills are needed to set up the X-gateway. As factory default the X-gateways have a pre-defined I/O size of 20 bytes I/O.



Features and benefits

- Fast copying of cyclic I/O data between two PROFIBUS networks (10-15 ms)
- Proven and tested with all PLC manufacturers
- Supports up to a maximum of 512 bytes of Input and Output data in each direction
- Powerful Master interface for PROFIBUS eliminates the need for an additional PLC controller
- Optional control and status information added to the I/O data for diagnostic purposes
- Robust stand-alone housing for use in harsh industrial environments
- Global free technical support and consultancy

PROFIBUS Master/Scanner interface

An Anybus X-gateway with an integrated PROFIBUS Master interface can be used when there is no existing PROFIBUS controlling PLC.

- Complete Profibus DP Master functionality according to IEC 61158
- Controls up to 125 slaves
- Optional Live List of the active status of the connected slaves (max 64 slaves)
- Maximum 512 bytes of I/O data in each direction
- Supports all baudrates up to 12Mbit/s
- Supports multiple masters (token passing)
- Profibus Master/Slave configuration via the included Anybus Configuration Manager Windows tool via an RS-232 configuration port
- 1x D-Sub9 Male and 1x D-Sub9 Female connector

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

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

Ordering information

Order Code	AB7801
Included components	Gateway Quick start documentation USB configuration cable Serial cable for PROFIBUS master configuration Resource CD with PROFIBUS master configuration software Power supply not included Configuration software is available for download.

3 year guarantee. For purchasing instructions and terms and conditions, see: [How to buy](#).

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