DATASHEET

AN-X3-PB

PROFIBUS DP Multi-Slave Ethernet HMI or UDP Gateway, with PROFIBUS Network Analyzer

The AN-X3-PB acts as a gateway between a PROFIBUS DP network and an Ethernet network. The gateway allows the mapping of PROFIBUS DP I/O data to an EtherNet/IP™ controller or Modbus® TCP Client. The AN-X3-PB can connect a PC or other device to a PROFIBUS network. The gateway has a web interface for configuring the PROFIBUS and Ethernet properties.



Supports PROFIBUS Network Capture, facilitates the capture, logging, and filtering of packets on a PROFIBUS network without interrupting the running production network. This enables a root cause analysis to be performed on the captured PROFIBUS packets to identify complex issues.

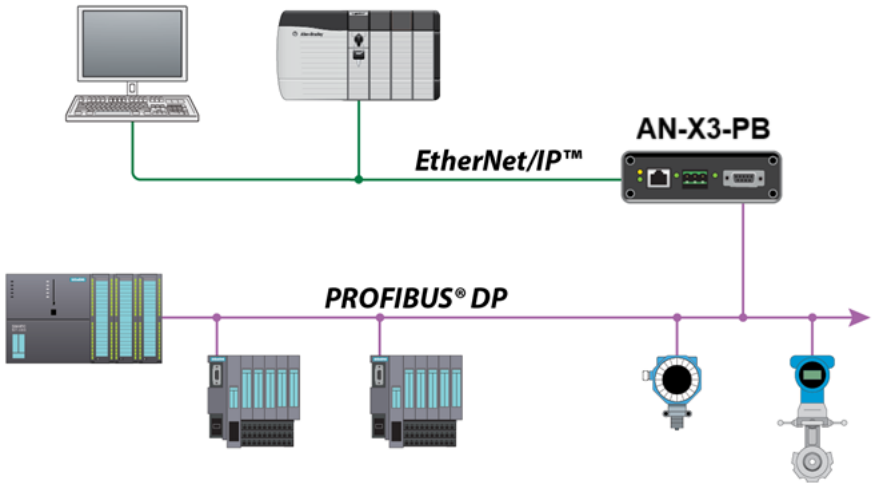
PROFIBUS DP

- Acts as one or more active PROFIBUS DP slave nodes, up to 125 total
- Monitors the I/O data from all other PROFIBUS DP slave nodes on the PROFIBUS network
- Maintains PROFIBUS DP slave node list
- Maintains PROFIBUS diagnostic counters
- Supports baud rates of 9600bps to 12Mbps

Features

- Configures through a web browser (No special configuration software required)
- Customizable configuration files provide additional flexibility
- Supports offline configuration through a .CSV file
- View diagnostics with a web browser for remote monitoring and troubleshooting

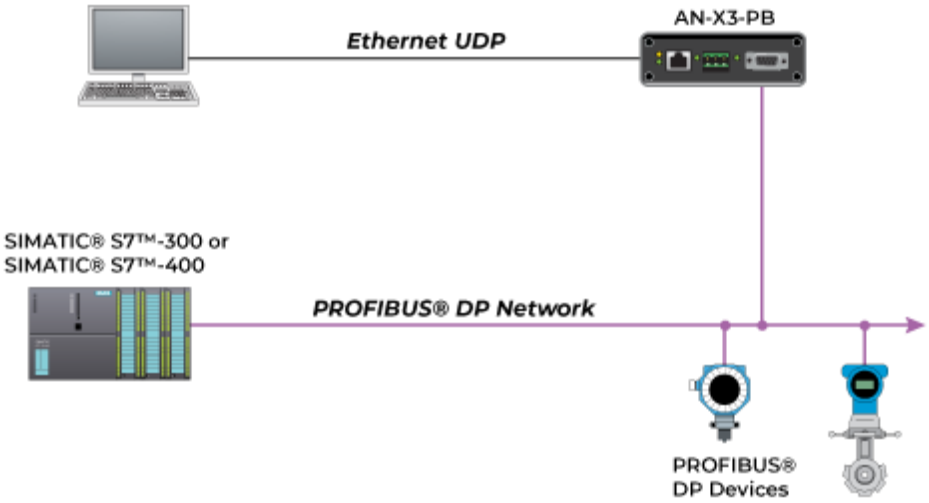
HMI



The AN-X3-PB gateway running the HMI firmware acts like a gateway between a PROFIBUS DP network and an Ethernet network supporting EtherNet/IP scheduled connections, PLC5 file emulation, and Modbus TCP.

- Scheduled Connection size 250/248 (input/output)
- PROFIBUS DP I/O can be mapped to the scheduled connections
- PLC5 File emulation allows users to map PROFIBUS DP I/O data to N or F type files
- Map PROFIBUS DP I/O data to Modbus registers using Modbus TCP Server functionality

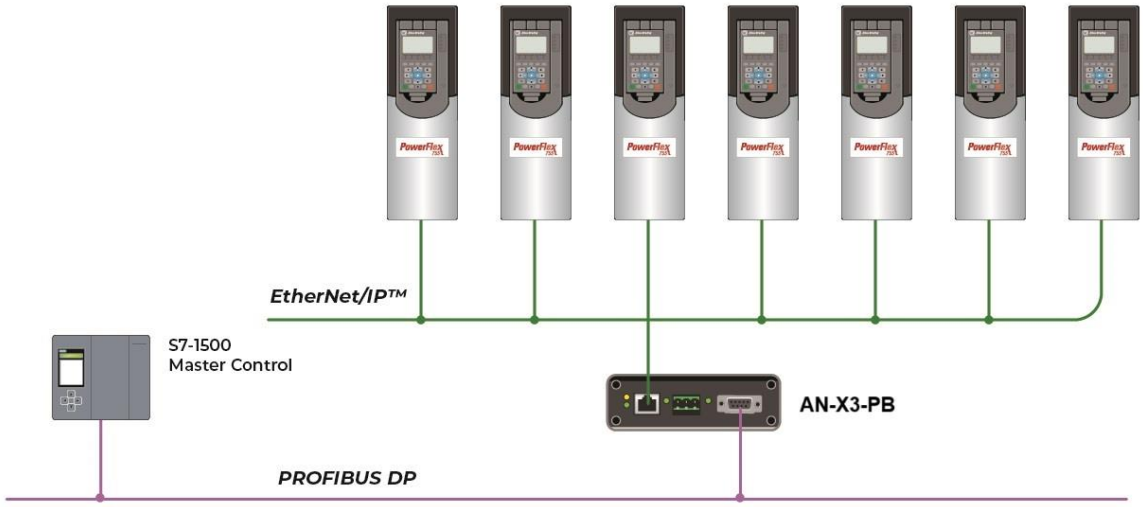
UDP



The AN-X3-PB acts as a gateway between a PROFIBUS DP network and an Ethernet network using cyclic UDP messages.

- Supports up to 16 UDP send blocks and up to 16 UDP receive blocks
- Each block supports a standard frame size (MTU) of up to 1500 bytes
- With Ethernet, IP, UDP and QTS overhead, there are 1448 bytes or 362 DWORDS (32 bits) available to map PROFIBUS diagnostics and data
- Both Unicast and Multicast frames are supported

DRIVE



The AN-X3-PB module running AN-X3-PBS-DRV firmware acts as a gateway between a PROFIBUS DP Master and Ethernet/IP motor drives, using Scheduled Connections.

- Data re-mapping - move data to/from any position in the frame
- Data type conversion - INT to DINT, DINT to INT, INT/DINT to Real, and Real to INT/DINT
- Conversion with Scaling
- Single-bit copy with invert option

Hardware Specifications

Specification	Description
Maximum Power Consumption	160mA at 12VDC, 80mA at 24VDC
Maximum Power dissipation	2 Watts
Operational Temperature	0° to 50°C (32° to 122°F)
Storage Temperature	-40° to 85°C (-40° to 185°F)
Relative Humidity	5% to 85% without condensation

Hardware Features

- Ethernet RJ45 connector
- 9-pin D Shell connector to connect to the PROFIBUS network
- 3-pin Phoenix power connector
- microSD card for storage of configuration data and firmware

EtherNet/IP™ Support

Scheduled Connections

- Data Types: INT, DINT, Real
- Connection size 250/248 (input/output)
- Configurable RPI time for each connection (1 to 750ms)
- PROFIBUS DP I/O data can be mapped to the scheduled connections
- EtherNet/IP Class 1
- Number of connections: 16

Unscheduled PLC-5 Emulation

- Allows users to access PROFIBUS DP data on an Ethernet network
- PROFIBUS DP I/O data can be mapped to N and F type PLC-5 files

Modbus® TCP Support

- Modbus TCP Server allows users to map PROFIBUS DP I/O data to Modbus registers

PROFIBUS DP Support

- Acts as one or more active PROFIBUS DP slave nodes, up to 125 total
- Monitors the I/O data from all other PROFIBUS DP slave nodes on the PROFIBUS network
- Maintains PROFIBUS DP slave node list
- Maintains PROFIBUS diagnostic counters
- Supports baud rates of 9600bps to 12Mbps

Agency Approvals & Certifications

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Additional Products

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Ordering Information

To order this product, please use the following:

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PROFIBUS DP Multi-Slave Ethernet HMI or UDP Gateway, with PROFIBUS Network Analyzer

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