

SenseLive

X9900

Profinet & Modbus Device

RS485 to Profinet communication, with Ethernet (RJ45)

SenseLive Technologies

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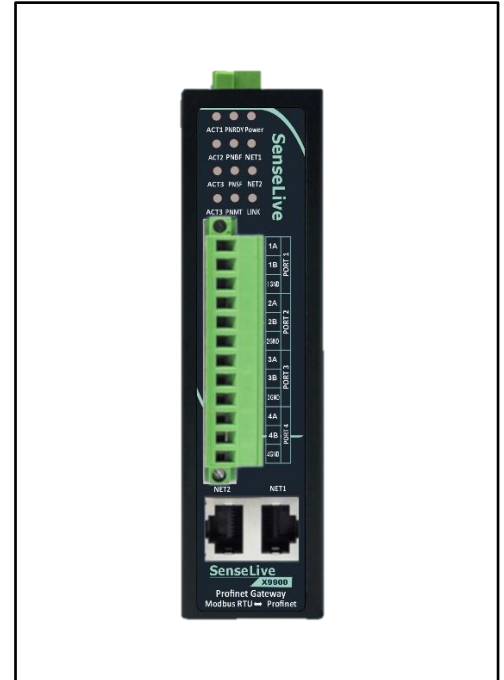
Profinet Device

Product Overview

X9900 is an industrial Profinet-Modbus gateway with dual Ethernet and four RS485 ports, supporting Modbus Master/Slave modes. It enables seamless Profinet-Modbus conversion with easy GSDML setup, compact DIN-rail design, 9-24V DC input, and -40~85 °C operation for reliable industrial communication.

Key Features

- Supports Profinet-Modbus protocol conversion, with dedicated GSDML file for easy setup.
- **Network:** Dual 10/100M Ethernet ports with switching/cascade support.
- **Serial:** Four independent RS485 channels, 300-921600 baud, multiple parity options, 1-2 stop bits.
- **Modes:** Modbus Master/Slave, Profinet Slave, Modbus TCP Slave.
- **Data:** Up to 1024-byte I/O length, supports 62 Modbus RTU instructions.
- **Indicators:** Power, NET1/NET2, LINK, PNRDY, PNBf, PNSF, PNMT, and ACT1-4 for port activity.
- **Device config:** TIA Portal, STEP7-Micro/WIN SMART, Profinet PN master software.
- **Industrial design:** Metal enclosure, DIN-rail/panel/desktop mounting, 9-24V DC wide input, reverse polarity protection.
- **Rugged:** -40~85 °C operation, 5-95% RH, up to 1200 m RS485 communication distance.
- **Applications:** Power systems, smart meters, energy monitoring, and SCADA integration.



Technical Specifications

Parameter	X9900
Interface:	LAN:RJ45、485
Power supply	Terminal method
Size:	length×width×height=150mm×105mm×41mm
Baud rate:	300~921600bps
Data bits:	5~8 bits
Verification:	None, odd parity, even parity, mark, space

protocol	ETHERNET、IP、TCP、UDP、HTTP、ARP、ICMP、DHCP、DNS
Configuration method:	SenseLive_config_2.0_orignal
Transformation Agreement:	Modbus TCP、MQTT、JSON、HTTP、BACnet(X8300-B)
Communication method:	TCP/IP direct communication, virtual serial port mode
power supply:	9~24V DC, 200ma@12V
Operating temperature:	-40~85°C
storage temperature :	-45~165°C
Humidity range:	5~95% relative humidity

Indicator Lights

- NET1/NET2: Off = no cable, Flashing blue = normal connection
- POWER: Green when powered
- LINK: Reserved for future use
- PNRDY: Profinet module ready (On = started, Flashing = waiting sync, Off = failed)
- PNBFB: Profinet link status (On = no link, Flashing = link ok but no controller communication, Off = active communication link)
- PNSF: Profinet diagnostics (On = diagnostic present, Off = none)
- PNMT: Profinet maintenance
- ACT1-4: RS485 channel activity indicators