

Data-2Wire-PRO

Quick Installation Guide

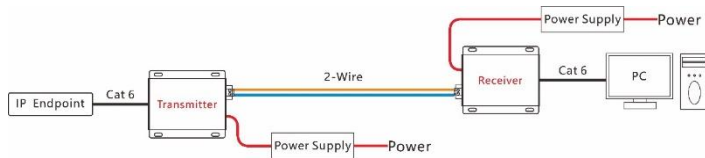
Overview

Data-2Wire-PRO is a Gigabit Ethernet Extender. It can transmit Ethernet signal over any 2-wire cable such as coaxial cable, Cat5 cable, telephone cable, power line and so on. The max distance can reach 1,000 meters.

This device contains the Receiver unit and Transmitter unit, which supports point to point and point to multi-point network transmission. It can greatly simplify the project cabling, apply to expand network system and transmit Ethernet signal for long distance

Connection

Both Transmitter unit and Receiver unit need to be powered by power adapters (12~24VDC)



LED Indicators

Category	Color	Normal	Fault condition
Power	Red	Steady on	Off or flashing
Line	Green	Steady on or flashing	Off
Link Act	Yellow	Flashing	Off; Steady on (communication hasn't started)

Power Connection



● The power port of the **Data-2Wire-PRO** is a DC terminal, which should be securely inserted.

Installation Instruction

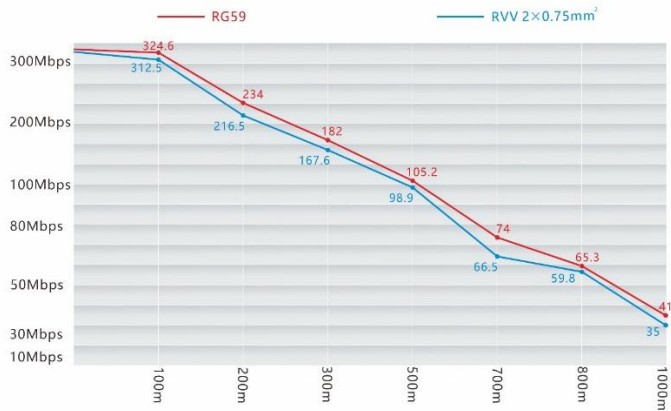
Before installation, confirm the installation location based on the product information on the label. The product connected to a computer is designated as the Receiver unit by default, and the one connected to a IP endpoint is considered the Transmitter unit.

Receiver		Transmitter	
Step	Installation Instruction	Step	Installation Instruction
1	Local network equipment is connected to RJ45 port of receiver unit (1)	8	The connection terminal of A line of 2-wire (8)
2	The connection terminal of A line of 2-wire (2)	9	The connection terminal of B line of 2-wire (9)
3	The connection terminal of B line of 2-wire (3)	10	Connect the UTP cable of network equipment to RJ45 port of transmitter unit (10)
4	Connect power supply (12~24VDC) to the power port (4)	11	Connect power supply (12~24VDC) to the power port (11)
5	Power indicator is always on (5)	12	Power indicator is always on (12)
6	Link Act indicator quickly blinks when data transmission is normal (6)	13	Link Act indicator quickly blinks when data transmission is normal (13)
7	Line indicator is always on (or quickly blinks) (7)	14	Line indicator is always on (or quickly blinks) (14)

Specifications

Category		Description
Power	Available Voltage Range	12~24VDC
	Power Consumption	≤3W/PC
Transmission / Rate	Standard Compliance	IEEE1901, IEEE802.3
	Up Down Agreement	CSMA/CA
	Bandwidth	Full duplex 100/1000Mbps
	Encryption Method	128-bit AES
Physical Characteristic	Dimensions (L × W × H)	98×86.5×25mm
	Material	Aluminum Alloy
	Net Weight	160g/PC
Operating Environment	Working Temperature	-20℃~60℃
	Working Humidity	<95%(Non-condensation)

Bandwidth & Distance Chart



Note:

The actual data speed performance can vary by the environmental conditions and the cable qualities.

Troubleshooting

1. This product doesn't support PoE endpoints. If you must connect to a PoE endpoint, please give an additional power supply to the PoE endpoint
2. The two-core transmission wires must be securely connected, and different types of cables should not be mixed, such as 2-wires with coaxial cables
3. Check if the grouping codes on the product labels match. Products with different pairing codes cannot communicate with each other
4. IP endpoint must be activated before connecting to the transmitter unit to avoid the situation where the line is normal but the signal is not transmitted
5. If there is no communication between products, swap with a different set to quickly identify the source of the fault

Installation Method

Data-2Wire-PRO can be installed on the desktop. Use 4mm screws to fix it in the designated position through the mounting holes as shown in the diagram

