

Packing List

In addition to this guide, the package includes the following items:



RFU-IO-920 + ANT-109-1



Screw Driver

Technical Support

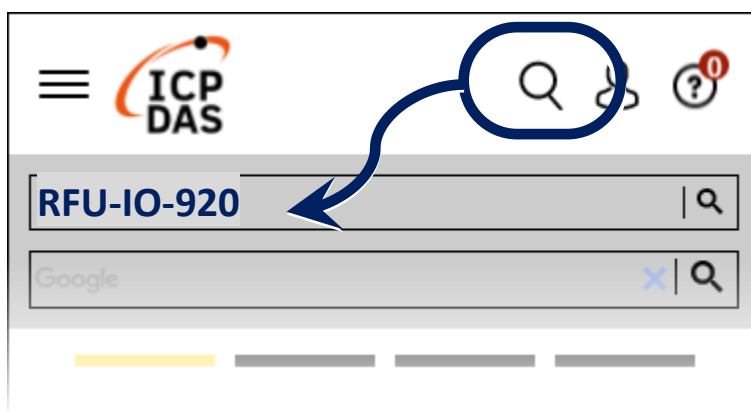
service@icpdas.com

www.icpdas.com

Resources

How to search for drivers, manuals and spec information on ICP DAS website.

- For Mobile Web



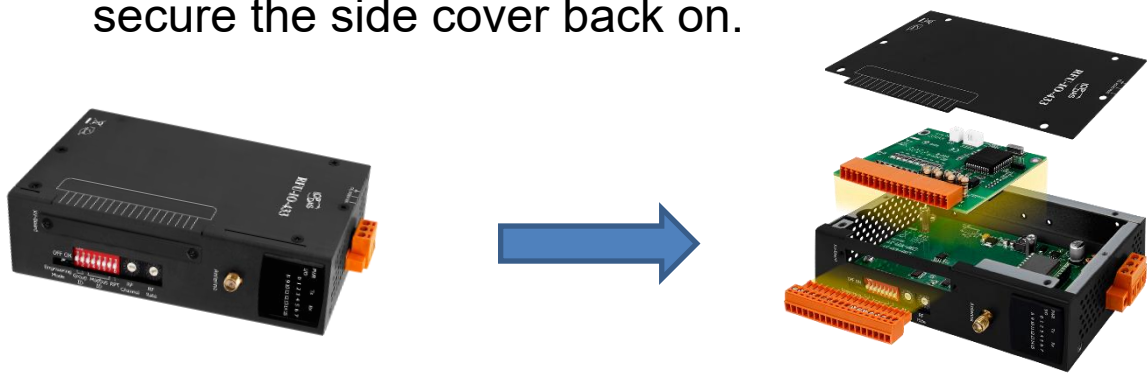
- For Desktop Web



1. Installing the XV Expansion Board

Step1. Remove the side cover of the RFU-IO-920 and the panel of the XV board.

Step2. Install the XV expansion board you wish to use, and then secure the side cover back on.



Step3. Adjust the dip and rotary switches to the suitable settings.

RF Rate: (Default is 2)

No.	RF Rate (kbps)	No.	RF Rate (bps)
1	250	6	5
2	125 (default)	A*	Pair-connection: Master
3	50	B*	Pair-connection: Slave
4	25	C*	Pair-connection: Unresponsive
5	10	Others	Reserved (125)

RF Channel: (Default is 0)

0 ~ F represent 920.0000 ~ 924.6875 MHz, with 312.5 kHz interval.

Group ID (DIP 0, 1): (Default is 0)

Group ID number, the number range is 0 ~ 3.

Modbus ID (DIP 3, 4, 5, 6, 7): (Default is 1)

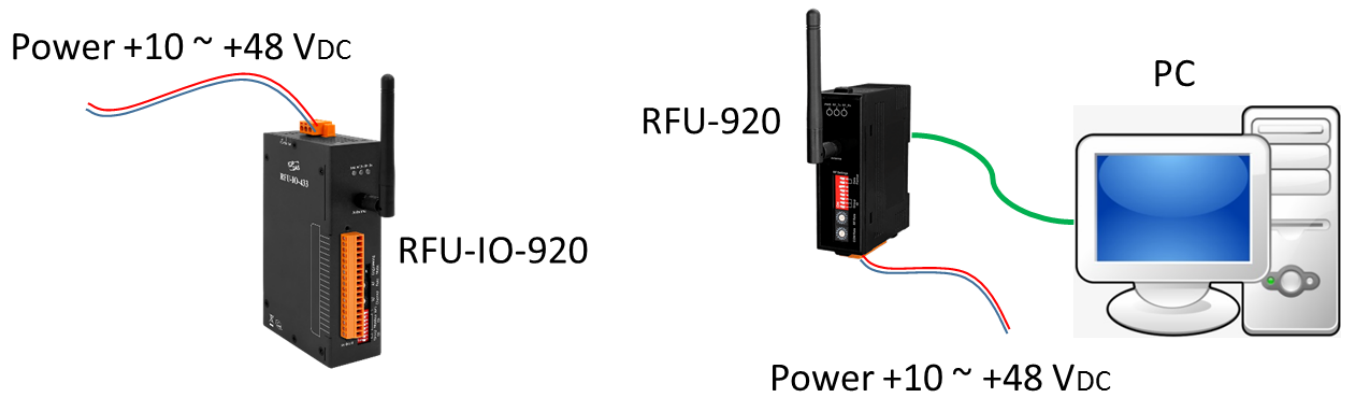
Modbus station number, the station number range is 1 ~ 32.

RPT (Repeater): (Default is OFF)

Repeater setting, OFF is normal mode, ON is repeater mode.

Step4. Provide +10 ~ +48 V_{DC} power to the RFU-IO-920

Step5. Connect RFU-920 to the PC end.

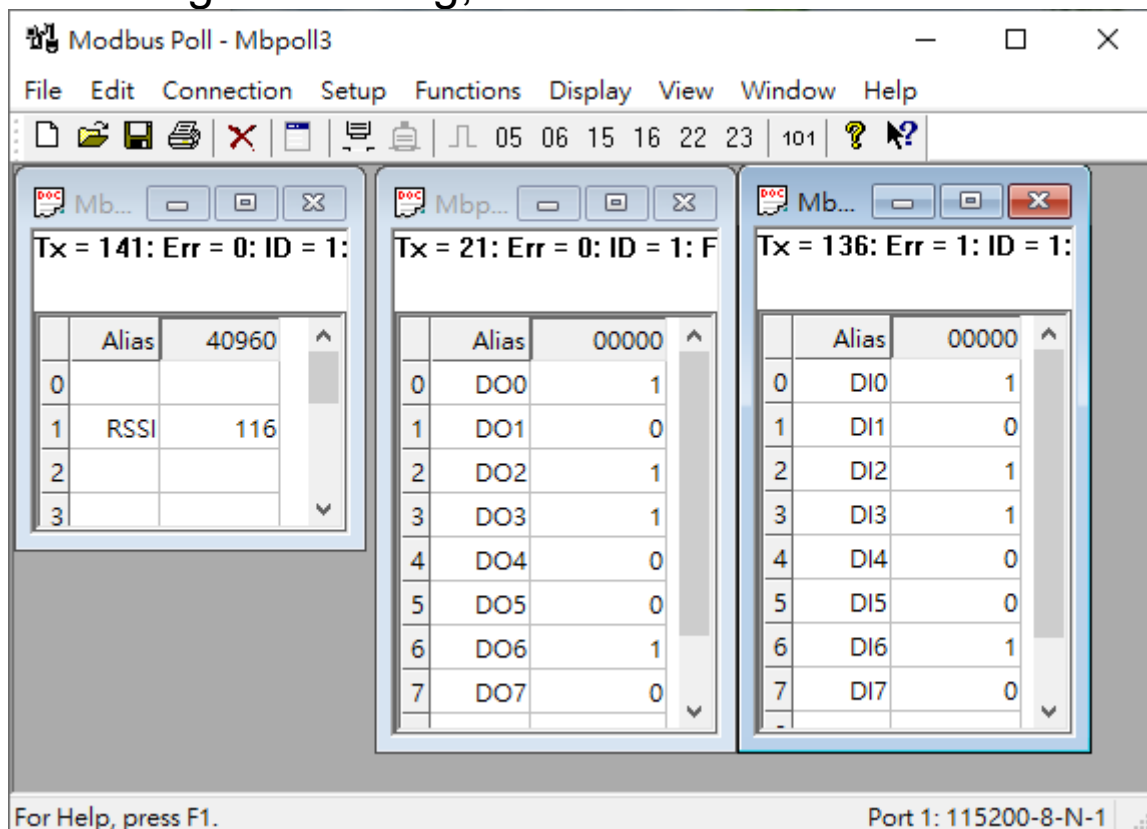


2. Communicate with RFU-IO-920 via RFU-920

Step1. RFU-920 web: <https://www.icpdas.com/en/product/RFU-920>

Step2: The PC can use any third-party Modbus RTU Master software to connect to RFU-IO-920 via RFU-920, such as Modbus Poll.

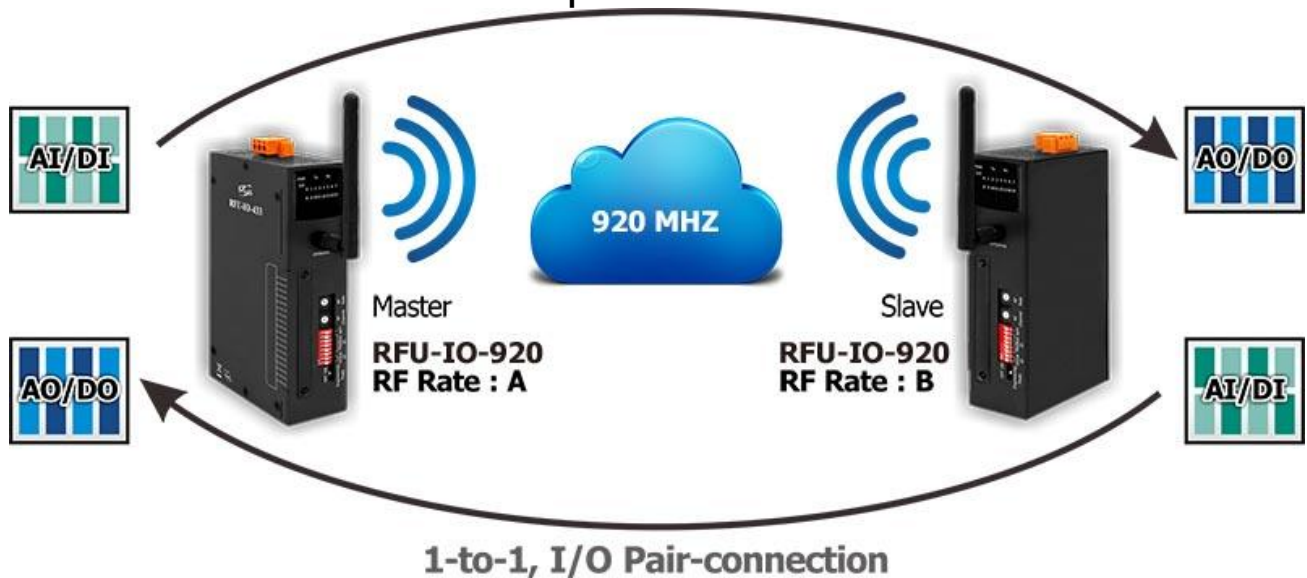
Step3: Open the Modbus Poll, configure the addresses for reading and writing, then establish the connection.



3. 1-to-1 Pair-connection Mode

Step 1: Use two RFU-IO-920 units. Set the RF Rate rotary of one unit to A and the RF Rate of the other unit to B. Ensure the remaining rotary and dip switches are adjusted consistently.

Step 2: Provide power to the RFU-IO-920 units to complete the Pair-connection setup.



4. 1-to-Many Pair-connection Mode

Step 1: Use three RFU-IO-920 units. Set the RF Rate rotary of one unit to A and the RF Rate of the others unit to C. Ensure the remaining rotary and dip switches are adjusted consistently.

Step 2: Provide power to the RFU-IO-920 units to complete the Pair-connection setup.

