

Packing List

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



RFU-IO-433



Screw Driver

Technical Support

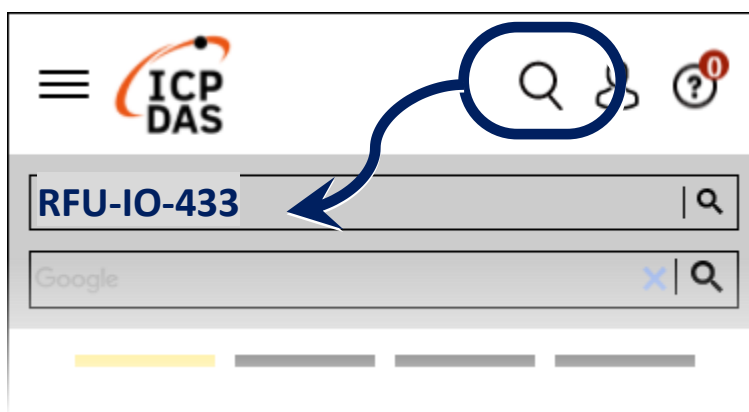
service@icpdas.com

www.icpdas.com

Resources

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

- For Mobile Web



- For Desktop Web



RFU-IO-433



Google

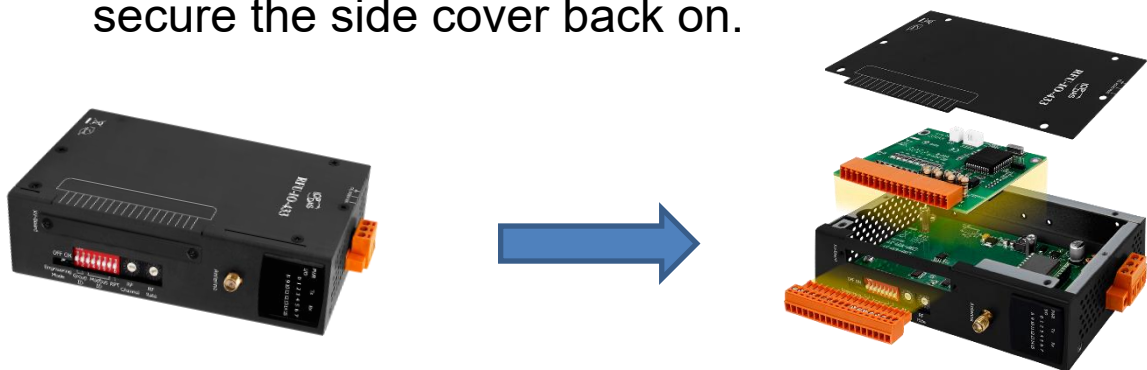


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1 Installing the XV Expansion Board

Step1. Remove the side cover of the RFU-IO-433 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 3)

No.	RF Rate (bps)	No.	RF Rate (bps)
1	57600	7	1200
2	38400	8	650
3	19200 (default)	A*	Pair-connection: Master
4	9600	B*	Pair-connection: Slave
5	4800	C*	Pair-connection: Unresponsive
6	2400	0, 9, D, E, F	Reserved (19200)

RF Channel: (Default is 4)

0 ~ F represent 433.1 ~ 434.6 MHz, with 0.1 MHz 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)

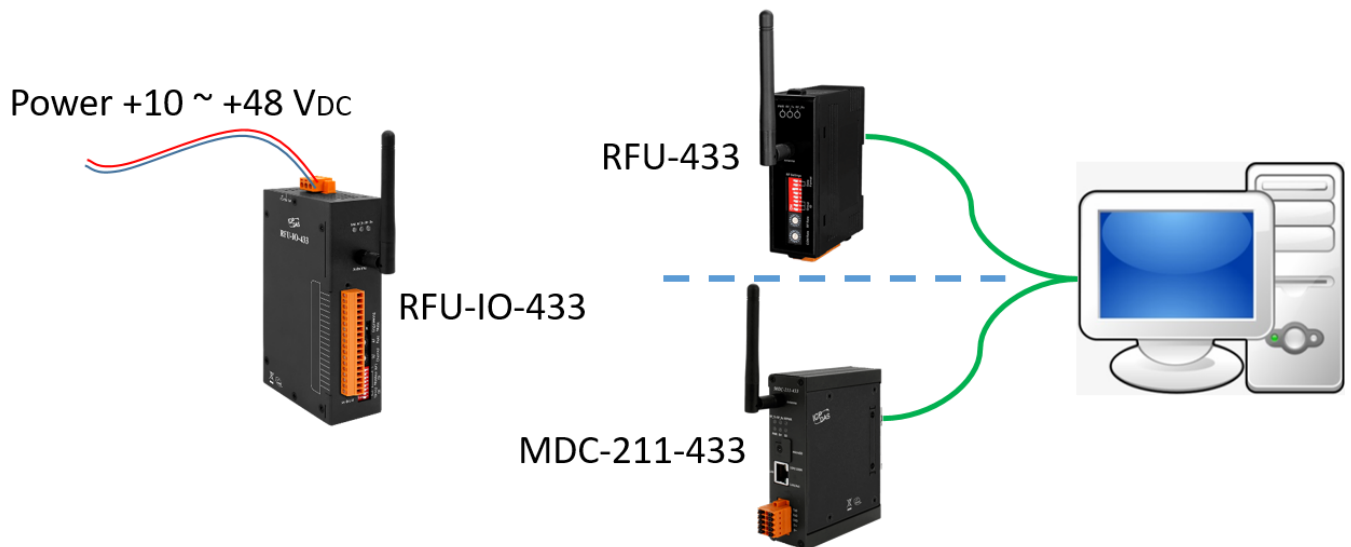
Modbus station number, the station number range is 1 ~ 32.

RPT (Repeater): (Default is OFF)

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

Step4. Provide +10 ~ +48 VDC power to the RFU-IO-433

Step5. Connect 433 devices such as RFU-433 or MDC-211-433 to the PC end.

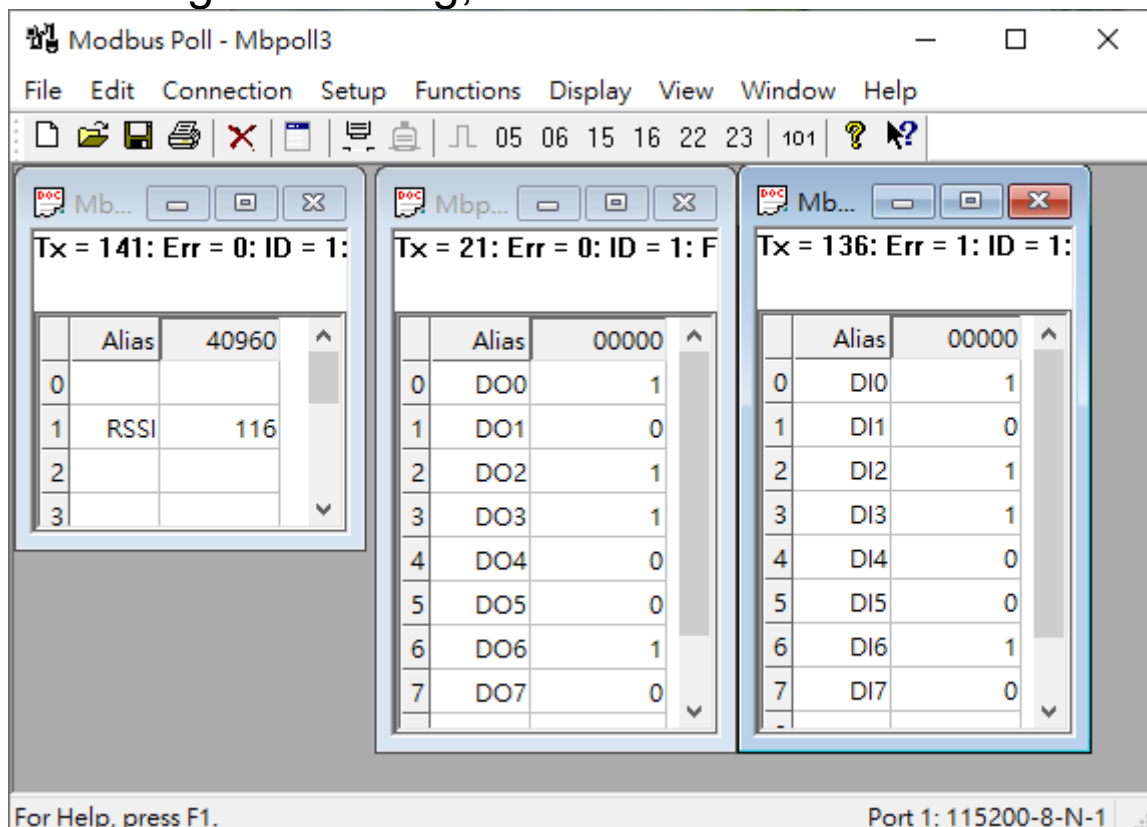


2 Communicate with RFU-IO-433 via RFU-433

Step1. RFU-433 web: <https://www.icpdas.com/en/product/RFU-433>

Step2: The PC can use any third-party Modbus RTU Master software to connect to RFU-IO-433 via RFU-433, such as Modbus Poll.

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



3 Communicate with RFU-IO-433 via MDC-211-433

Step1. MDC-211-433 web: <https://www.icpdas.com/en/product/MDC-211-433>

Step2. MDC-211-433 is a Modbus data concentrator. Users can configure MDC-211-433 through a web page to obtain Modbus data from RFU-IO-433. For instructions on configuring MDC-211-433, please refer to the webpage of MDC-211-433.

The screenshot shows the MDC-211-433 web interface. The 'I/O Information' tab is selected. On the left, under 'Internal Register', the 'Wireless' section is highlighted with a red box. A red arrow points from this section to the 'DO (0xxxx)' section in the main area. The 'DO (0xxxx)' section contains a table with 4 columns (0, 1, 2, 3) and 2 rows (ON, OFF). The 'ON' row has values 0000, 0000, 0000, 0000. The 'OFF' row has values 0000, 0000, 0000, 0000. A red box highlights the '0000' value in the 'ON' row, column 3. An 'Analog Output Setting' dialog box is open, showing a value of 0000 in hex.

4 Communicate with Pair-connection

Step 1: Use two RFU-IO-433 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-433 units to complete the Pair-connection setup.

