RFU-433-RU400 Quick Start
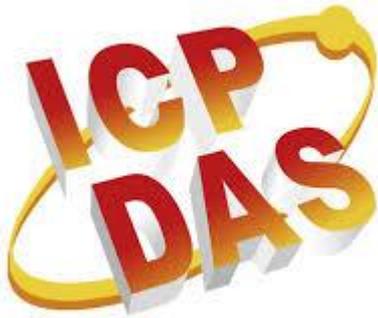
What's in the box?

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

RFU-433-RU400 Module +
ANT-104-02

Screwdriver

More detail about RFU-433-RU400

http://www.icpdas.com/root/product/solutions/industrial_wireless_comm
unication/wireless_solutions/rfu-433-ru400.html

1. Pin Assignment
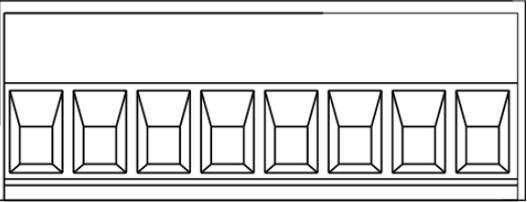
	Pin	Description
	RxD	RS-232
	TxD	
	GND	
	F.G.	Frame Ground
	D-	RS-485
	D+	
	GND	Power:
	+Vs	+10 ~ +30 VDC, 1A

+Vs GND D+ D- F.G. GND TxD RxD
└ DC Input ┘└ RS-485 ┘   └ RS-232 ┘
              └──── COM 0 ────┘

2. LED

LED	Behavior	Description
PWR	On	+10 ~ +30 VDC Power On
	Off	Power Off
RF_Tx	On	RF is transmitting data
	Off	RF is no data to transmit
RF_Rx	Always On	RF is receiving data, signal strength high
	100ms Flash	RF is receiving data, signal strength middle
	500ms Flash	RF is receiving data, signal strength low
	Off	RF is no data to receive

3. Rotary Switch
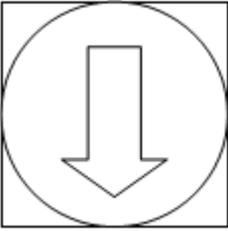
| Switch Name	No	Baud rate (bps)	No	Baud rate (bps)
RF Baud Rate	0*	Same with COM	1	57600
	2	38400	3	19200
	4	9600	5	4800
	6	2400	7	1200
	8	650	9 ~ E	reserved
	F	Firmware version		

* If COM rate is 115200 bps, the RF rate will set to 57600 bps.
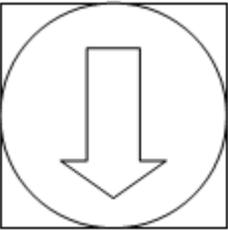
| Switch Name	No	Baud rate (bps)	No	Baud rate (bps)
COM Rate	0	115200	1	57600
	2	38400	3	19200
	4	9600	5	4800
	6	2400	7	1200
	8 ~ E	reserved		

4. DIP Switch

		No	Switch Name	Description				
	Data Format	1 ~ 3	Group ID	RFU-433-RU400 with the same group ID can communicate with each other				
		4 ~ 6	reserved	reserved				
	Group ID	7 ~ 8	COM data type	Data Type	7	8		
				N, 8, 1	OFF	OFF		
				O, 8, 1	ON	OFF		
				E, 8, 1	OFF	ON		
				Repeater	ON	ON		
Set Run		Set mode/Run mode		Set	Utility setting mode			
				Run	Normal firmware work			

# 5. RFU-433-RU400 Utility
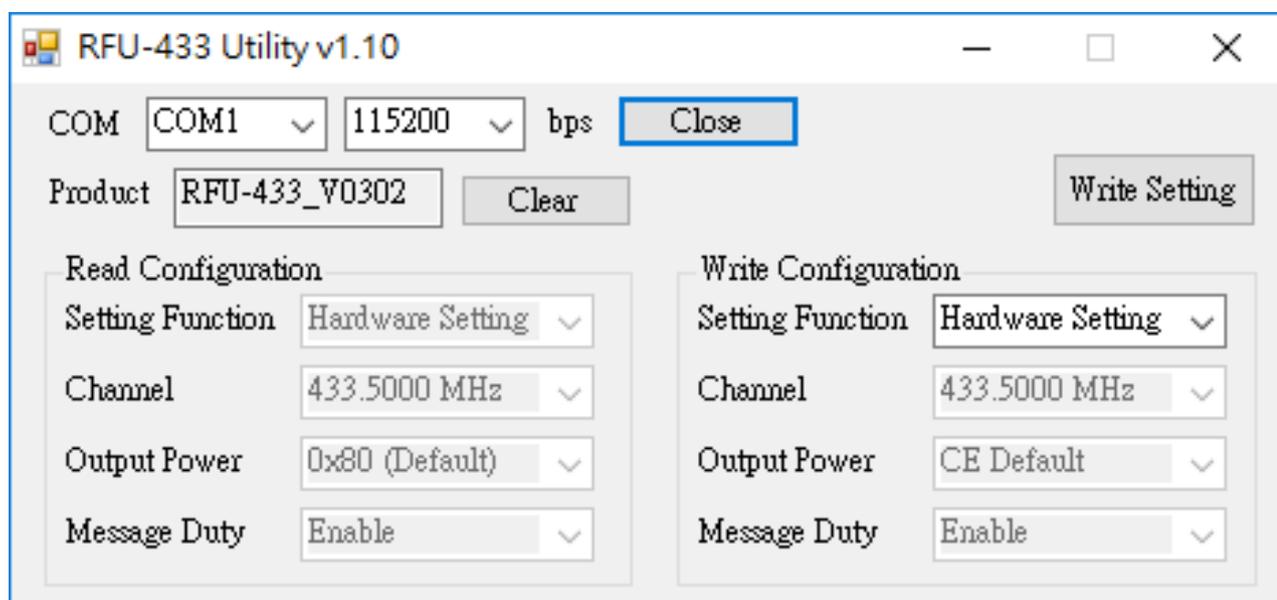
    Users can select "Hardware Setting" or "Software Setting" through the utility. If use "Hardware Setting", the "Channel" parameter will be fixed at 433.5 MHz, the "Output Power" parameter will be fixed at 10 dBm, and the "Message Duty" parameter will be fixed at enable 10% message duty. If use "Software Setting", the "Channel", "Output Power" and "Message Duty" parameters can be set by users.

6. Application Example

PC can control RS-485 modules 1 ~ 3 through a RFU-433-RU400.
And control modules 4 ~ 6 through another RFU-433-RU400.
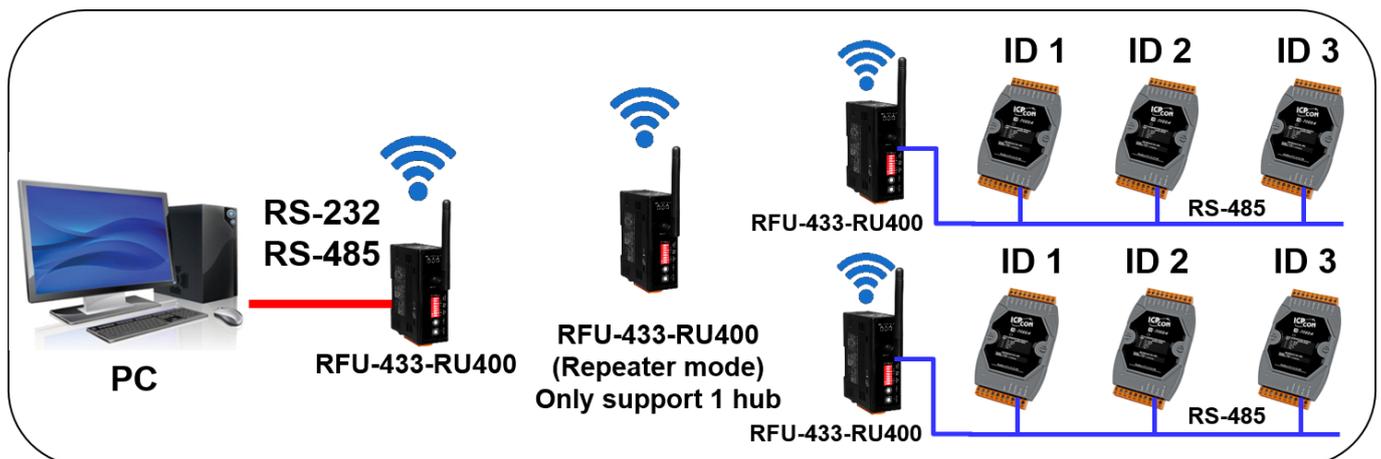
If these two RFU-433-RU400 are far away.
Users can add a RFU-433-RU400 with repeater mode between these two RFU-433-RU400.

Technical Support: service@icpdas.com   ------------------------------ 4