## UHF 433 MHz RS-232 Adapter



- 1. Packing Contents:
  - 1.1 RS-232 adapter x 1
  - 1.2 User manual x 1
  - 1.3 USB Cable x 1
  - 1.4 Antenna x 1
- 2. Profile:
- 2.1 Top view



2.2 Rear view:



- 3. Quick guide
  - 3.1 Power input: Micro USB or Pin 9 of DB9 connector please slides the switch to the right direction. Please check the section 2.1 diagram.



3.2 The red Led named "PW" will solid on.

- 3.3 Default Serial Port setting:
  - Baud rate: 9600 bps
  - Data bit: 8
  - Parity: None
  - Stop bit: 1

If not, please modify the setting by using hyper terminal software and the setup command via COM port.



3.4 One to One connection: The communication will be acknowledged by both sides.



- 3.4.1 Slide the master or slave switch on the side of the adapter. Please check the section 2.1 diagram.
- 3.4.2 Pairing: Short press and release the pairing keys on the rear side of both adapters. Please check the section 2.2 diagram. The green and orange LEDs will flash for 3 times and then off. The connection is complete.
- 3.5 One to Many connections: The communication will broadcast and will not acknowledge the data transmission. Every device will send the data and the rest devices will receive the same data from the sender, please check the scenarios.3.5.1 Broadcast-1





- 3.5.1 Slide one master and the others are slave.
- 3.5.2 Pairing: Please follow the step 3.4.2 for each slave.
- 3.5.3 The communication will broadcast and will not acknowledge the data transmission. for all adapters.
- 4. Internet of Things gateway: The adapter will be connected with the smart phone or Internet via the converters by the RS-232 head to head.
- 4.1 WiFi RS-232 converter (TCP/IP)
- 4.2 Ethernet RS-232 converter (TCP/IP)
- 4.3 Bluetooth RS-232 converter (V2.1 SPP or V4.1 BLE)







5. RS232 Interface (Female DB9) 4.1 Pin out



4.2 Signals:

Pin	Signal	DTE	DCE	Description
1	CD	Input	Output	Not connected
2	TxD	Output	Input	Transmitted data
3	RxD	Input	Output	Received data
4	DSR	Input	Output	Contact manufacturer to set this
5	GND	N/A	N/A	Signal ground
6	DTR	Output	Input	Contact manufacturer to set this
7	CTS	Input	Output	Clear to send
8	RTS	Output	Input	Request to send (Default)
9	Vcc	Input	Input	Power supply (5VDC, 1.5A Max.)

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- 6. Data format:
  - 1 Wait for data

Wait for data

0	Start Bit	bit0	bit1	bit2	bit3	bit4	bit5	bit6	bit7	Stop Bit

- 7. Configuration API command via UART:
  - (Hex format)
    - 98 95 93 AB
- 7.1 A byte (Hex)
  - 0X = NONE(預設值); 1X = ODD; 2X = EVEN
- 7.2 B byte (Hex)

X0 =	9600(預設值)	X3 =	4800	X6 = 38400
X1 =	1200		9600	X7 = 57600
X2 =	2400	X5 =	19200	X8 = 115200

8. Firmware upgrade:

SN8 ISP v1.2	Firmware upgrade:
Inferface · 📧 UAR T 🛛 🥥 USB HID	1. Press "Pairing" key for
File Path C\Documents and Setings\Admin.stram\点面\RS232_EVO_20150305_1155.SNE	3 seconds, TX/RX
CCM Fort COM: Start Address 0x0000 (Hex formal)	LED is On
Baund Rate 9600 Program Size 0x15"F (Hex format, Unit is WCRD)	2. Continuous press unti
Parity bit Dzable	TX/RX LED is Off
Stop bit 1	3. Select Firmware
	4. Setup:
->SnrtAddress:0000 ProgramSize:157F Init Illiciate success II	Start Address: 0x0000
Elspeed time: 14515(ms)	Program Size: 0x157F
	Baud: 9600
	None Parity
	1 Stop bit
100%	5. Start Program
Start Program	

## 9. Specifications:

- Support TXD/RXD/CTS/RTS
- Frequency bands: 433 MHz@FSK modulation
- TX power: up to 17 dBm @ 433.92MHz, Distance: 200-300m
- Low consumption: TX: 30mA, RX: 14mA @10dBm
- RF Data Rate : 100 Kbps
- Receiver Sensitivity: -103 dBm @250K bps
- Support software and API setting for Baud rate option
- Baud rate: 1,200/2,400/4,800/9,600(Default )/19,200/38,400/57,600/115.200 bps
- Hopping Frequency: 433.3MHz, 433.6MHz, 434MHz, 3 Chanel

V1.3