

UHF RS-232 Serial Adapter

Model: S2U232E-433 (433 MHz)

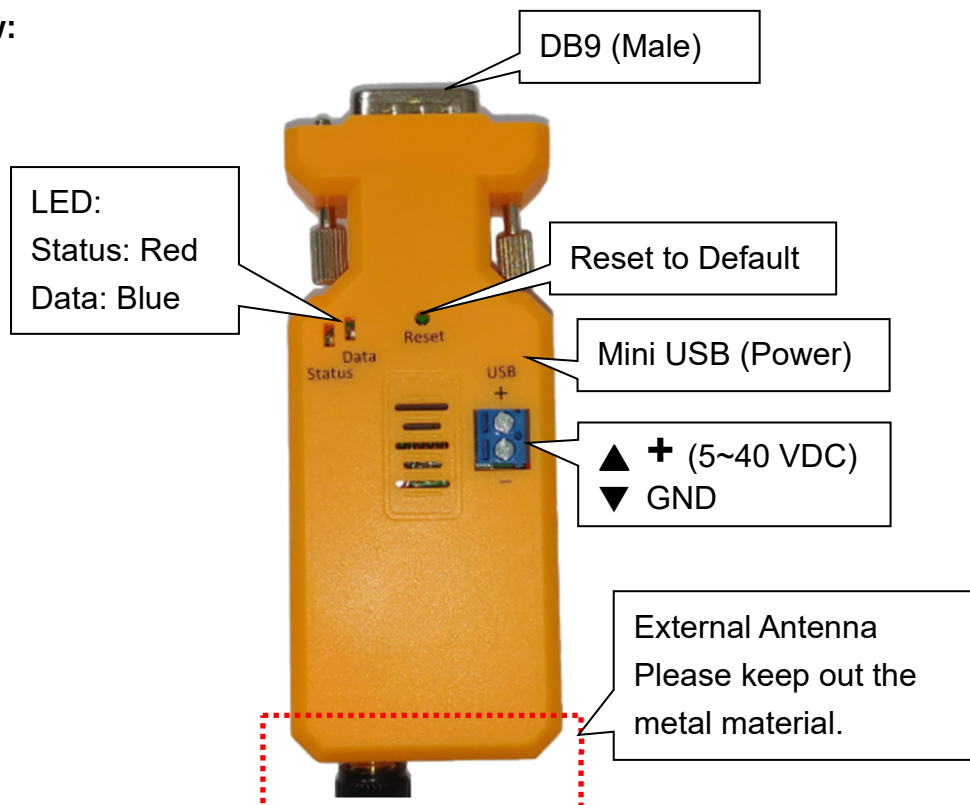
Model: S2U232E-915 (915 MHz, Default)

1. Package content:

UHF RS-232 adapter  White Box: 11 x 6 x 5 (cm) Total Package Weight: 108 g 	Package Contents: ● UHF RS-232 adapter x 1 ● A4 User manual x 1 ● Mini USB Cable x 1 
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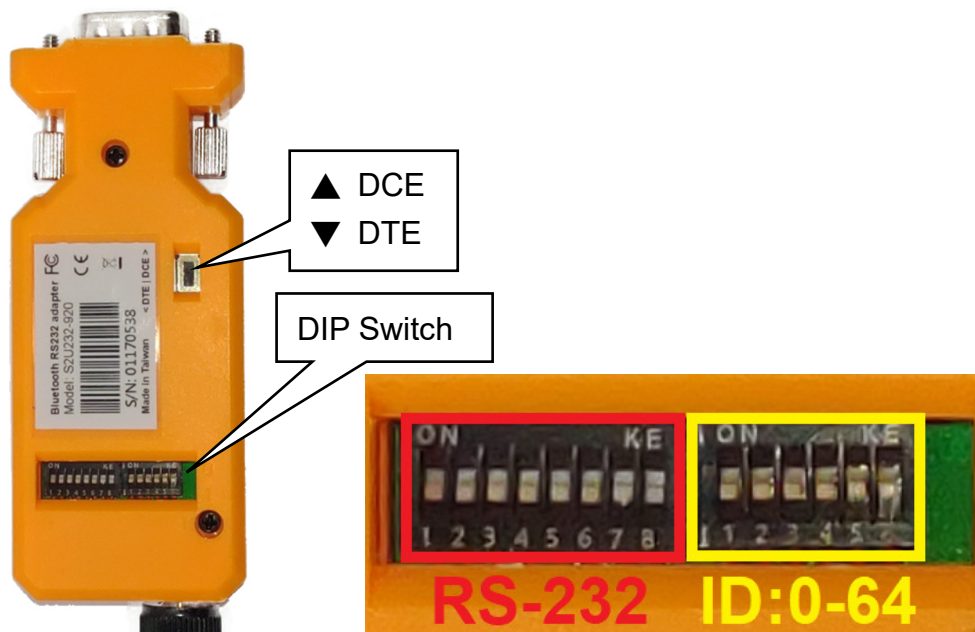
2. Profile:

2.1 Top view:



LED Status	Description
Data: Blue LED	Flash when data transmission
Status: Red LED	Solid on when power on

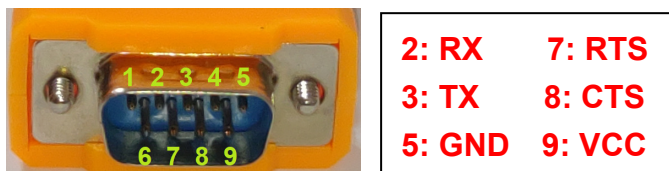
2.2 Rear Side:



Switch configuration:

Baud Rate	Stop bit	Data bit	Parity	ID: 0-64
1-2-3	4-5	6	7-8	000000-111111
101: 1200	00: 1	0: 8 bit	00 None	000000: Default, ID=0
011: 2400	11: 1	1: 7 bit	01: Odd	1111111: Broadcast to all ID
111: 4800	10: 1.5		10: Odd	w/o acknowledge
000: 9600	01: 2		11 Even	000000~111110: The data will
100: 19200				be transmitted between the
010: 38400				same ID adapters with RF
110: 57600				acknowledge
001: 115200				

2.3 DB9 Pin definition (Male)



Pin	Signal	DTE Direction	DCE Direction	Description
1	N/A			
2	RxD	Output	Input	Transmitted data
3	TxD	Input	Output	Received data
4	N/A			
5	GND			Ground
6	N/A			

7	RTS	Input	Output	Clear to send
8	CTS	Output	Input	Request to send (Default)
9	VCC			Power Input (5~40 VDC)

3. Power supply:

3.1 Voltage: 5~40 VDC, **Don't exceed the limit.**

3.2 There're 3 ways to power the adapter: Mini USB, 2P Terminal Block (Blue) and pin9 of DB9, please choose one. **Don't power the adapter by more than one source.**

3.3 The mini USB to type A cable is inside the standard package.

4. Specifications:

4.1 Default value:

- Baud rate: 9,600 bps
- Data bit: 8
- Parity: none
- Stop bit: 1
- Flow control: none

4.2 Serial Port:

- Baud Rate: 1.2/2.4/4.8/9.6/19.2/38.4/57.6/115.2 Kbps
- Parity: none, odd, even
- Stop bit: 1, 1.5, 2
- Data bit: 7, 8

4.3 Range: max. 200 m in open space (The range depends on the real environment.)

4.4 TX Power: Max. 13 dBm

4.5 RX Sensitivity (1% PER)

- -105dBm at 50Kbps GFSK
- -102dBm at 100Kbps GFSK
- -99dBm at 200Kbps GFSK
- -91dBm at 1Mbps FSK/MSK

4.6 Minimum current consumption of 12 mA in RX mode, 33mA in TX mode with 13dBm output power

4.7 Operation Temperature: -40 °C to +85 °C

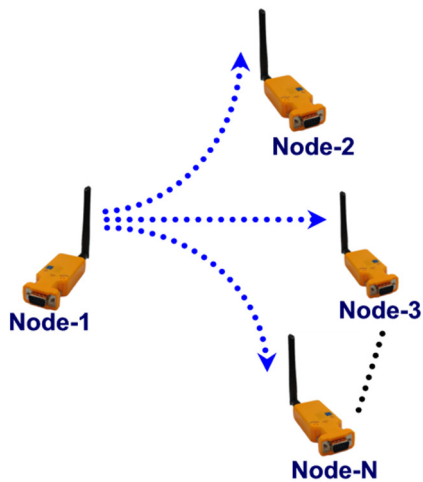
4.8 Dimensions: 87 mm (L) x 34 mm (W) x 18 mm (H)

4.9 Antenna Gain: max. -1 dBi (Default)

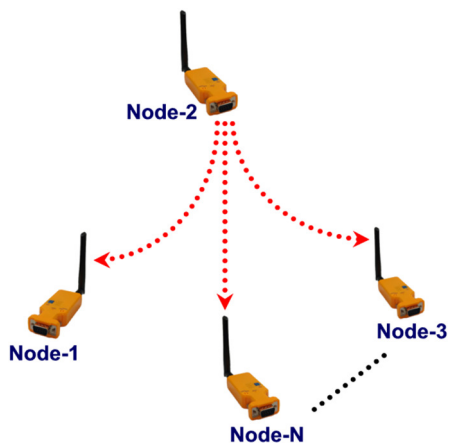
Remark: All contents are subject to change without notice.

5. One to Many communication

5.1 The data from the node-1 will be transmitted to all the nodes with ack in the same ID exclude the ID=64.



The data sent from Node-2 will be transmitted to Node-1, 3 or N.



EX: Node-1 transmits the data to the Node-2, 3, ...N. Node-2 transmits the data to the Node-1, 3, ...N, and etc..

5.2 The Node ID=64 (DIP SW=111111) will broadcast the data w/o ack to all the nodes with the ID=0 (DIP SW=000000) to 63 (DIP SW=111110).

6. Band option: Please contact the supplier for the customization.

- 916 ~ 930 MHz (Japan)
- 917 ~ 923.5 MHz (Korea)
- 902 ~ 928 MHz (North America)
- 863 ~ 870 MHz (EU)
- 779 ~ 787 MHz (China)
- 470 ~ 510 MHz (China)
- 433 MHz