BLE RS-232 Reader
Model: S2B5232E

1. Package content:

BLE Beacon RS-232 Reader	Package Contents:
  White Box Dimension: 11 x 6 x 5 (cm) Total Package Weight: 105 g 	• BLE RS-232 adapter x 1 • A4 User manual x 1 • Mini USB Cable x 1 • 2 dBi dipole antenna

2. Profile:

2.1 Top view:

DB9 (Female)

Reset to Default

LED:
Link: Blue
PWR/Data: Red

Mini USB (Power)

▲ **+** (5 VDC)
▼ GND

Radio Frequency area:
Don't cover any metal
material or painting.

LED	Description
Blue	Flash when data received
Red	Solid when power on

2.2 DB9 connector: (Male)

2: RX   3: TX
5: GND   9: Vin

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			
8	CTS			
9	Vin			Power Input (5 VDC)

2.3 Rear Side:

▲ DCE
▼ DTE

DCE/DTE:

Swap TX & RX
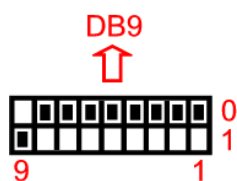
DIP Switch

DB9

9 8 7 6 5 4 3 2 1

0
1
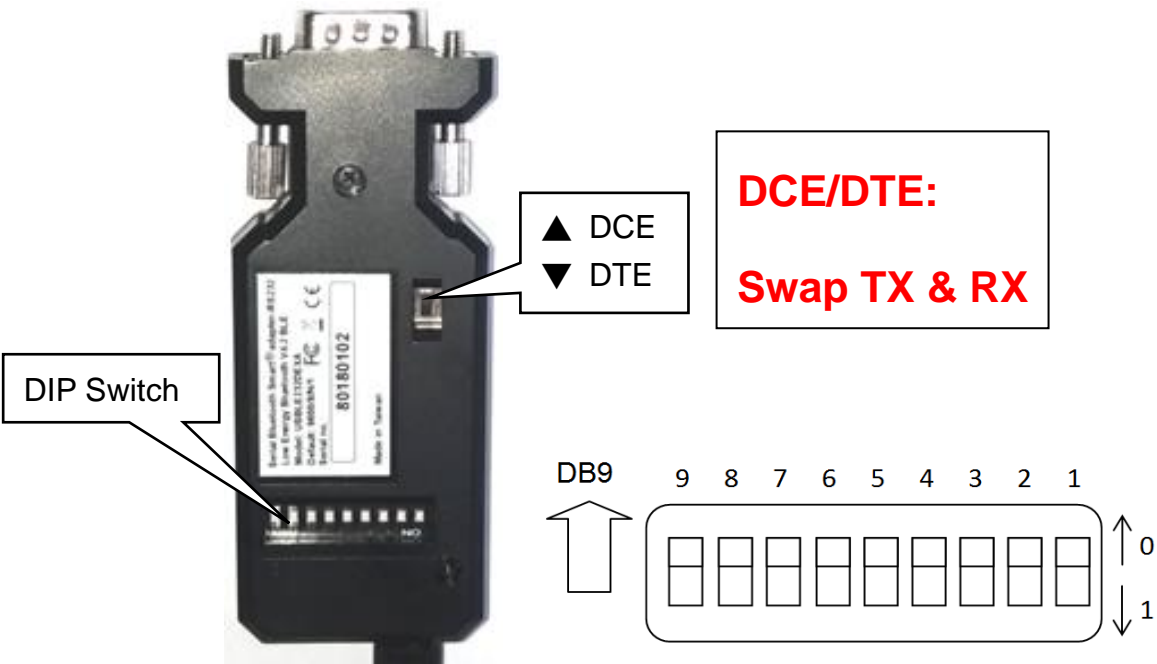
2.4 Default: All pin is "0", Baud rate 9,600 bps., 8 Data bits, None parity, 1 Stop bit.
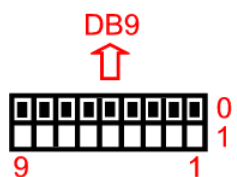
DB9

0
1

9   1
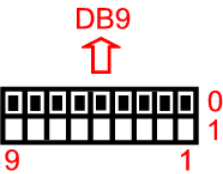
2.5 Baud rate option: DIP No. 9 is set to "1" (On): The baud rate is 115,200 bps, 8 Data bits, None parity, 1 Stop bit.

3. Packet Format:

3.1 Default: All DIP switch is "0".

$<msg type>,<reader id>,<tag type>,<tag id>,<battery>,<button>,<G-sensor>,<sensor>,<RSSI>#

Example:

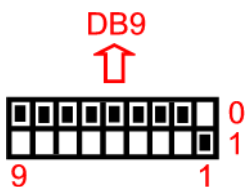 $1,00A05053849D,1,00A050172A2C,30,0,0,,-71#
    $2,00A05053849D,0,58E72F0CEF88,0,0,0,0,-48#
    $3,00A05053849D,0,772BB24ADC36,0,0,0,0,-48#
    $4,00A05053849D,0,012AC345EB45,0,0,0,0,-49#

1.2 Raw BLE packet: The Bluetooth discovering broadcast will be filtered. All BLE beacon will be reported. DIP No. 1 is set to "1" (On) and "0" else

Prefix: "$"

First column: RSSI value

Raw packet data is between "$" and "CR" "LF"
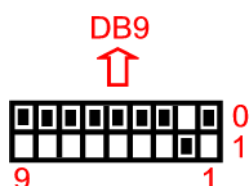
Suffix: CR LF

EX:

$-78,0201061BFF5900AABC0100A050172A2C1E0000000000000000000000000000BB

$-83,1EFF06000109200073C68487B4DFB227B7546E97078954811C4EB1E40DC1DF

1.3 Add the ">" at the end of Raw BLE packet: DIP No. 2 is set to "1" (On) and "0" else

Prefix: "$"

First column: RSSI value

Raw packet data is between "$" and ">"

Suffix: ">"

EX: $-85,02010605166E2A850A04160F18090F09425055434B205420383030423635>

4. Power supply:

4.1 Voltage: 5 VDC, **Don't exceed the limit.**

4.2 The mini USB cable is inside the standard package.

Federal Communications Commission (FCC) Statement

RADIO FREQUENCY INTERFERENCE STATEMENT

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Warning : A shielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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