Bluetooth BLE RS-422/485 Beacon Reader
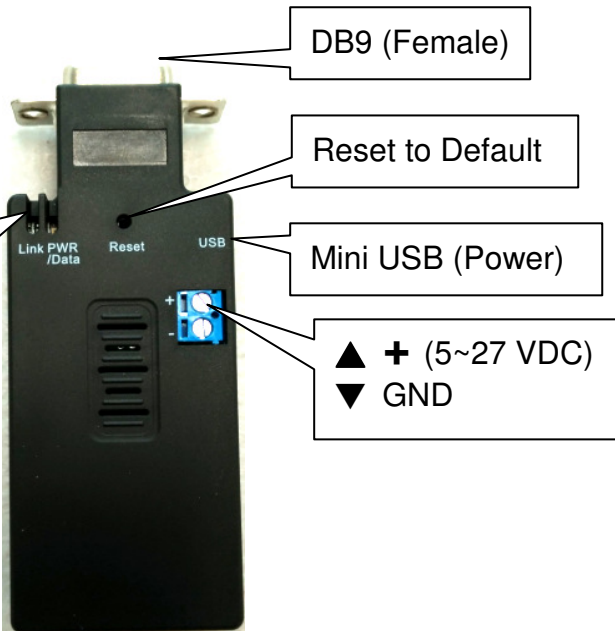
Model: BR232-xx

1. Package content:

BLE RS-232 Beacon Reader	Package Contents:
White Box Dimension: 11 x 6 x 5 (cm) Total Package Weight: 105 g	• BLE RS-422/485 adapter x 1 • Screw x2, Screw nut x 2 • A4 User manual x 1 • Mini USB Cable x 1

2. Profile:

2.1 Top view:

DB9 (Female)

Reset to Default

LED:
Link: Blue
PWR/Data: Red

Mini USB (Power)

▲ ✚ (5~27 VDC)
▼ GND

LED Status	Description
Data LED flash	Data transmission
Data LED solid on	No data transmission
Link LED solid on	BLE Link
Link LED flash	No Link
Data & Link LED solid on	DFU/OTA Mode

1

2.2 DB9 connector:

There're 2 screws and 2 nuts inside the package, the screw or nut are available.
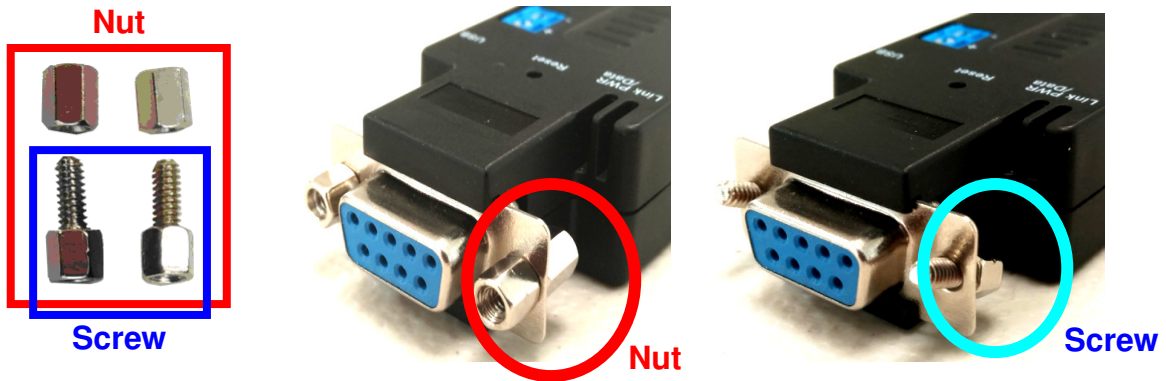
2.3 Rear Side:
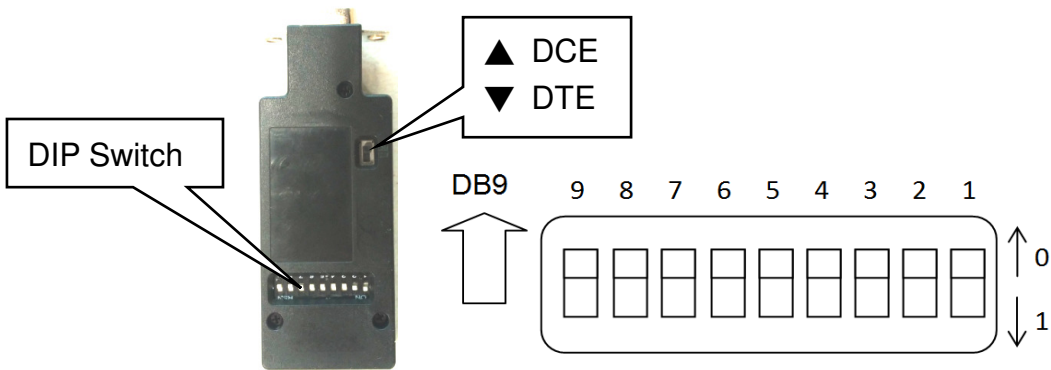
RSSI Filter Setting: 0 (OFF); 1 (ON)

DIP1	DIP2	DIP3	DIP4	RSSI
0	0	0	0	-60 dB
0	0	0	1	-62 dB
0	0	1	0	-64 dB
0	0	1	1	-66 dB
0	1	0	0	-68 dB
0	1	0	1	-70 dB
0	1	1	0	-72 dB
0	1	1	1	-74 dB
1	0	0	0	-76 dB
1	0	0	1	-78 dB
1	0	1	0	-80 dB
1	0	1	1	-82 dB
1	1	0	0	-84 dB
1	1	0	1	-86 dB
1	1	1	0	-88 dB
1	1	1	1	-90 dB

2.4 RS422/485 Interface

DB9

RX- RX+ TX- TX+
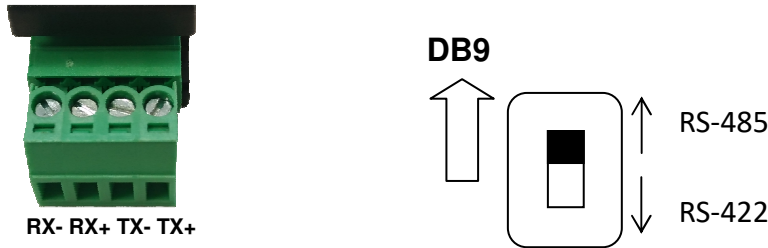
RS-485

RS-422

RS-485: Half Duplex, 2 Wires, RX+ (A), RX-(B)

Host		Device 1
RX+		D+
RX-		D-
TX+		
TX-		Device N
		D+
		D-

OR

Host		Device 1
D+		D+
D-		D-
		Device N
		D+
		D-
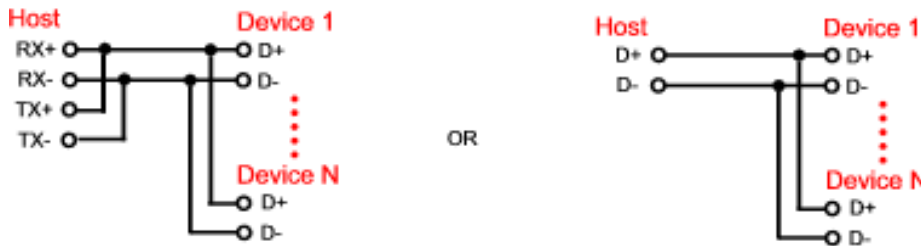
7.3 RS-422: Full Duplex, 4 Wires, RX+ (A), RX-(B), TX+, TX-

Host		Device 1
RX+		TX+
RX-		TX-
TX+		RX+
TX-		RX-
		Device N
		TX+
		TX-
		RX+
		RX-
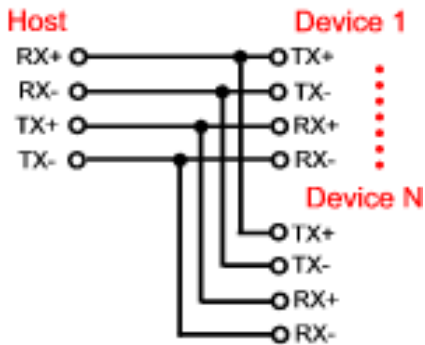
3. Power supply:

3.1 Voltage: 5~27 VDC, **Don't exceed the limit.**

3.2 There're 3 ways to power the adapter: Mini USB, Terminal Block and pin9 of DB9, please choose one. **Don't power the adapter by more than two sources.**

3.3 The mini USB 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 Range: max. 50 m in open space

4.3 TX Power: Max. 3 dBm

4.4 RX Sensitivity: -89 dBm typical

4.5 TX current consumption of 15.6 mA (radio only, 0 dbm)

4.6 Operation Temperature: –40 ℃ to +70 ℃

4.7 Dimensions: 81.6 mm (L) x 31.75 mm (W) x 17 mm (H)

4.8 Antenna Gain: max. 2 dB

Remark: All contents are subject to change without notice.

5. Beacon type:

5.1 iBeacon (Trademark of APPLE)   (Model: BR485-iBeacon)

5.2 Active RFID Tag (Model: BR485-RTLS)

5.3 All BLE Beacon (Model: BR485-ALL)

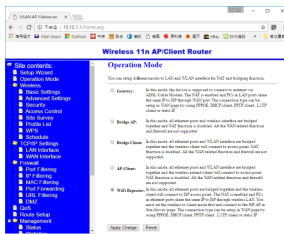5.4 Proprietary beacon format (Please contact)

5.5 Flag or Alarm for specific beacon (Please contact)

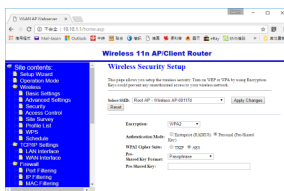## 6. Reader Gateway: Option

6.1 Support IEEE 802.11bgn Wifi, Ethernet, TCP Server/Client. DHCP Server/Client, AP, Station

6.2 Configuration: Webpage, AP mode, IP: 10.10.1.1 (Default)

6.3 Security: Support Enterprise (RADIUS) WPA(2) encryption

6.4 Support TCP Server & Client

7. Cloud: The cloud of the MQTT, Amazon, Google, IBM, Microsoft or etc. will be customized by the project, please contact the supplier.

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