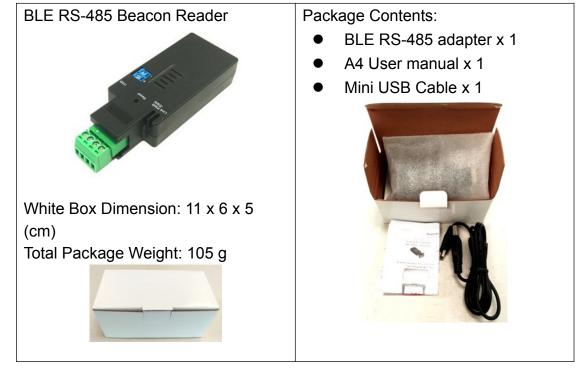
# Bluetooth BLE Beacon RS-485 Reader

# "Uconnect", "iBeacon", "Eddystone" or "Altbeacon"

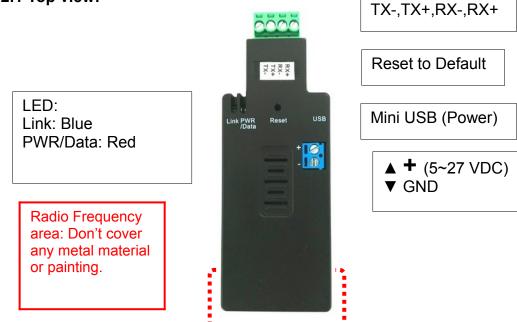
Model: BLE-485R

### 1. Package content:



# 2. Profile:



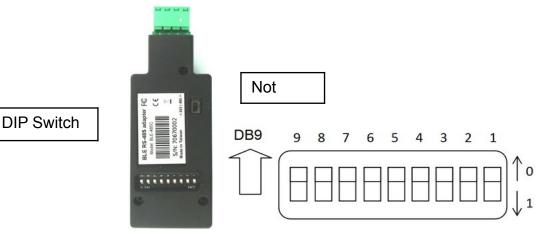


LED	Description
Blue	Flash when data received



Red Solid when power on

#### 2.2 Rear view



# 3. Packet Format:

# 3.1 All DIP switch is "0" by default. The reader will filter "Uconnect", "iBeacon", "Eddystone" or "Altbeacon".

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

Description
start of report
Type of message ex. 0: reserved, 1: Uconnect tag
2: iBeacon, 3: Eddystone, 4: Altbeacon
6 bytes ID of reader in hex => 12 chars
type of tag ex. 1: tag w/o g-sensor, 2: tag w/ g-sensor
6 bytes ID of tag in hex => 12 chars
batt voltage of tag in 1/10 volt unit
button status ex. 0: released, 1: pushed
motion status ex. 0: non-moving, 1: moving
Various sensor data (11 bytes)
tag read rssi
end of report

### Remark

- 1. (\*): The message is "0" for iBeacon, Eddystone and Altbeacon beacon.
- 2. (\*\*): Eddystone-TLM version 0 include the Tag battery information, 1/10V; The version is none "0" will display "0" in the "Tag batt" column.
- 3. (\*\*\*): Tx Power for the iBeacon, altBeacon, Eddystone-UID, Eddystone-URL and Eddystone-EID beacon

Example:

\$1,00A05053849D,1,00A050172A2C,30,0,0,,-71#



\$2,00A05053849D,0,58E72F0CEF88,0,0,0,-48# \$3,00A05053849D,0,772BB24ADC36,0,0,0,-48# \$4,00A05053849D,0,012AC345EB45,0,0,0,0,-49# **3.2 DIP No. 1 is set to "1" (On): Raw packet data** Prefix: "\$" First column: RSSI value Raw packet data is between "\$" and "CR" Suffix: Carriage Return EX: \$-78,0201061BFF5900AABC0100A050172A2C1E00000000000000000000000BB \$-83,1EFF06000109200073C68487B4DFB227B7546E97078954811C4EB1E40DC1DF **3.3 Default: All pin is "0", Baud rate 9,600 bps., 8 Data bits, None parity, 1 Stop bit. 3.4 DIP No. 9 is set to "1" (On): The baud rate is 115,200 bps** 

4. RS485 interface: 2 wires connection (TX+ & TX-)



Connect TX+ of the reader with RX+ of the other side Connect TX- of the reader with RX- of the other side

# 5. Power supply:

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

5.2 There're 2 ways to power the adapter: Mini USB and Terminal Block, please choose

one. Don't power the adapter by more than one source.

5.3 The mini USB cable is inside the standard package.

6. Wireless or Wire communication integration: (option, please contact the supplier)

6.1 WiFi RS-485 (Model: WA-485E)





### 6.2 Ethernet RS-485 (Model: EA-485)



6.3 LoRa or Wi-Sun RS-485 converter (Model: LORA-485, Wi-Sun-485)



The reader will connect with one of the above communication to bridge the tag data to the controller.

### 7. Customization: please contact the supplier

- 7.1 Tag format
- 7.2 Packet format of the reader
- 7.3 Reader bridge for communication

