




Bluetooth BLE Beacon RS-485 Reader

“Uconnect”, “iBeacon”, “Eddystone” or “Altbeacon”

Model: BLE-485R


1. Package content:

<p>BLE RS-485 Beacon Reader</p>  <p>White Box Dimension: 11 x 6 x 5 (cm) Total Package Weight: 105 g</p> 	<p>Package Contents:</p> <ul style="list-style-type: none"> ● BLE RS-485 adapter x 1 ● A4 User manual x 1 ● Mini USB Cable x 1 
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2. Profile:

2.1 Top view:

LED:
Link: Blue
PWR/Data: Red



TX-,TX+,RX-,RX+

Reset to Default

Mini USB (Power)

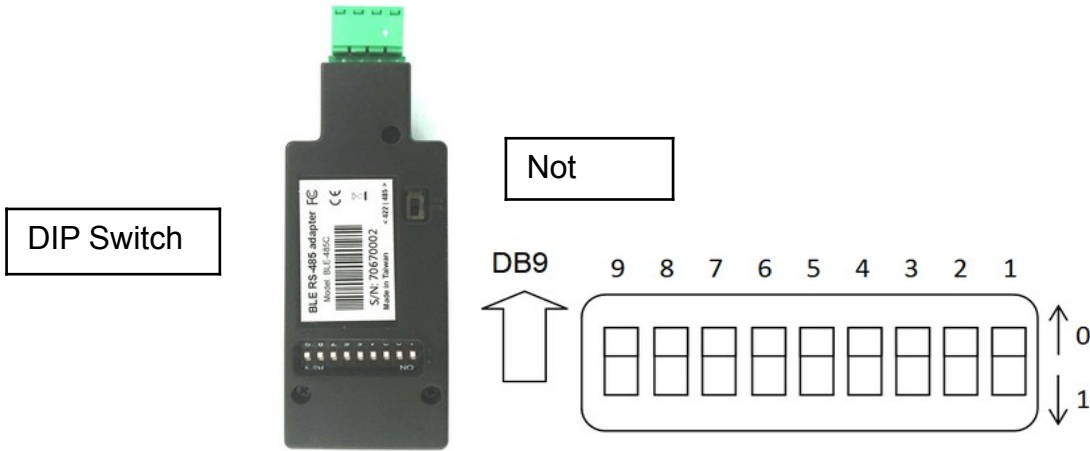
▲ + (5~27 VDC)
▼ GND

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

LED	Description
Blue	Flash when data received

Red	Solid when power on
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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>#

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

Remark

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

Example:

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

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