



WIFI Bridging Device for Low Energy RF Beacon

Model: AC-BW-R120



Industrial grade Client Receiver

AC-BW-R120 is WIFI client bridging device for receiving RF Beacon information. The device will send the beacons information to application server through the existing WIFI network

Electrical Specification

- RF beacon Reception
 - o Bluetooth 5 Compatible
 - o iBeacon Compatible
 - o Chipset: Nordic NRF52840
 - o 256kB RAM, 1MB Flash
 - o Frequency: 2.4GHz
- Transmission
 - o 802.11bgn
 - o Frequency: 2.4GHz
- Power Input
 - o 5VDC Input 1.2meters USB Cable
 - o Reserve 9-36VDC Input Port
- RF Reception protocol
 - o BT4.2 Advertise or/and Long Range (PHY Coded) Mode
 - o Range upto 200m (with Long Range Phy Coded)

Report Format

AC-BW-R120 Device report iBeacon Format data such as RSSI, Channel Index, MAC address, UUID, Major, Minor, Manufacturer code; Or report whole RAW data packet for non-iBeacon Format data in RAW mode.

Environmental Specification

- Operating temperature: : -25°C to +75°C
- IP66
- UV resistance
- Material: PC/ABS

Transmission Protocol (Through WIFI network)

- MQTT

AROCO compatible RF Beacons

- AC-BLE-T110
- AC-BLE-T110S
- AC-BLE-T110F
- AC-BLE-T110T
- AC-BLE-T110G
- AC-BLE-T110PIR
- AC-BLE-T110TP

FCC Warnings

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.

Warning: 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.

NOTE: 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.

Radiation Exposure Statement

To comply with FCC RF exposure compliance requirements, this grant is applicable to only mobile configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.