CloudGate

BLE EXPANSION CARD
WIREPAS EXPANSION CARD

Connect your BLE & Wirepas beacons to the Cloud

- Enables CloudGate BLE 4.2 connectivity
- Available as BLE or Wirepas variant

OPTION

BLE variant variant (CG1119-12096)

The BLE expansion card enables Option's CloudGate gateway to receive message from BLE beacons using the iBeacon protocol.

It's firmware can be managed through LuvitRED, Option's 'drag & drop' configuration tool, supporting other types of communication in any RF frequency from 2400MHz to 2524MHz

Wirepas Mesh variant (CG1119-12191)

In combination with LuvitRED Advanced* and with Wirepas supported devices, Option's CloudGate IoT gateway is ready to be deployed as a sink in any Wirepas Mesh network. The Wirepas stack allows BLE beacons to communicate to each other in a mesh configuration with Option's CloudGate gateway as the access point for all the meshed beacons to the cloud.

A typical use case is in/outdoor localization, where the location of the tags are determined using the signal strength of the beacons (or anchors) that have a fixed position in the building.

Biketracer

Option's biketracer is a tubular-shaped BLE beacon that allows tracing and/or identification of bicycles or motorcycles.

Its built-in replaceable AAA battery lasts minimum 2 years (when BLE advertising every second).

The biketracer can be activated via a Reed switch. Biketracer communicates the identifier, temperature, accelerometer status and battery level. With additional Wirepas software, it can even communicate with other biketracers.

Feature	Description
BLE module	• Rigado BMD-301
BLE version	• 4.2 standard (Bluetooth 5 compliant)
Chipset on BLE module	• Nordic nRF52832
Frequency band	• 2.4 GHz ISM band (2.36 to 2.5 GHz)
Tx power	• 0dBm @5.3mA
Rx sensitivity	• -96dBM @5.4mA
RSSI resolution	• 1dB
Operating temperature	• -30°C to 70°C
External antenna connector on expansion card	• RP-SMA female
BLE module firmware reprogramming	• Supported in LuvitRed Advanced*
BLE support	• YES - BLE variant - CG1119-12096
ANT/ANT+ support	• YES - ANT/ANT+ variant available
Wirepas support	• YES - Wirepas variant - CG1119-12191

*included in the hardware price