



Description

BT-LO-GW19 is a LoRaWAN™ based long-range communication gateway which forms the bridge between end node devices to the LoRaWAN server. It comes in an IP67 enclosure with integrated WiFi and a 4G modem to support easy configuration and cloud access. BT-LO-GW19 has a range of over 10KM line-of-sight and about One KM in dense urban environments.

It can be configured to connect to any LoRaWAN network server which supports the LoRaWAN specs. It has optional features like remote access and OTA.

Specifications

- CPU: 1.2 GHZ quad-core ARM Cortex A53.
- SOC: Broadcom's BCM2837
- RAM: 1 GB LPDDR2.
- Memory: 16GB , WiFi: 802.11b/g/n
- LoRa Concentrator: 865Mhz, 8 LoRa channels.
- 8 x 8 channels LoRa packet detectors
- 8 x SF5-SF12 LoRa demodulators
- Tx Power: up to 25dBm
- Rx sensitivity: down to -141 dBm.
- 4G Cellular: Qualcomm Modem for 4G LTE

Enclosure

- IP67 waterproof enclosure
- Interface: 1 LTE SMA connector, N type connector for LoRa Antenna.
- Weight (with cable): approximately 70.54oz (2kg)
- Dimensions: 215mm x 115mm x 90mm
- Wall thickness: 3mm.
- Support: up to 70~100 mm diameter pole mount

Features

- Enterprise-grade network gateway with custom configuration.
- Up to 8 packets can be received simultaneously with Fine Timestamp enabled
- Integrated WiFi, 4G modem
- IP67 waterproof Outdoor enclosure from Pheonix Mecano
- 5 dBi Gain 865Mhz Fiberglass Antenna.
- Designed & Made in India

Applications

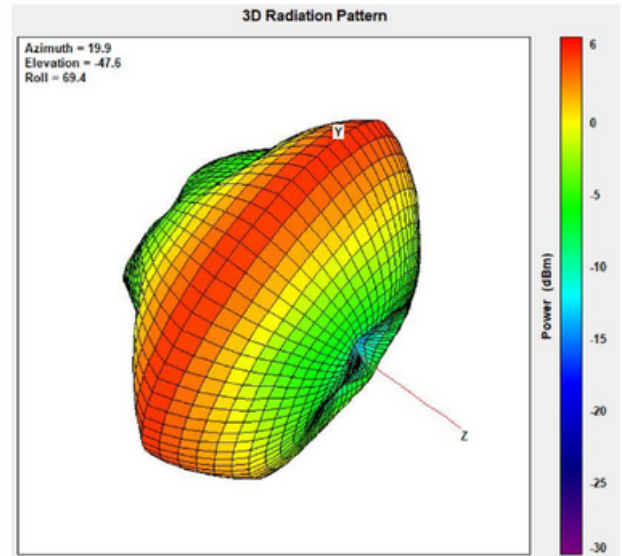
- Smart Buildings
- Logistics and Supply Chain Management
- Smart Metering
- Smart Agriculture
- Smart Cities
- Smart Factory / Industry

Antenna Study

An antenna is a very critical component of a wireless device, BridgeThings LoRaWAN Gateways come with highly tuned, matched antennas that provide the best outcome for the customers

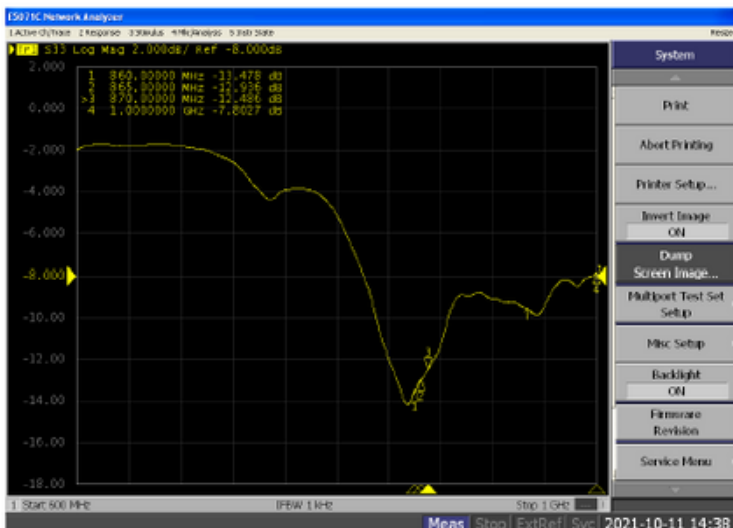


Chamber Measurement Setup



Return Loss

Return loss



Gain

