# LoRa GATEWAY

*"The safest choice for wire-less infrastructure"*

## RELIABLE NETWORK FOR AN EFFICIENT INFRASTRUCTURE

The **LoRa Gateway** connects all **LoRa Terabee sensors**, efficiently, transmitting sensor data to the **network server** wirelessly and encrypted. Acting as a key node in the smart building ecosystem, the LoRa Gateway **ensures reliable data flow to the network**, distributing data for analytics and/or real-time BMS control.

Designed for scalability and flexibility, **multiple LoRa Gateways can work together** to cover large building structures and provide live information across multiple floors and buildings. The gateway communication capabilities are robust, long-range, and can be **fully separated from the main IT network**, making it ideal for **retrofit applications where pulling cables can be very costly**.

## KEY PRODUCT FEATURES:

1. **Ensured compatibility with Terabee products**

2. **Proven performance in indoor environments**

3. **Following RAK quality standards**

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# Technical Specifications

**Product Code: TB-LORA-GTW-4G-W**

## Power

| | |
|---|---|
| DC Inputs | PoE (IEEE 802.3 af) |
| DC Voltage | 12 V - 1 A (12W) |

## Mechanics

| | |
|---|---|
| Dimensions | 166 mm x 127.5 mm x 36 mm (Without antenna) |
| Weight | 300 g |
| Housing material | Polycarbonate & ABS Plastic |
| Color | Black, white |
| Operating temperature | -10 ˚C to +55 ˚C |
| Storage temperature | -40 ˚C to +85 ˚C |
| Operation humidity | 0~95% RH |
| Ingress protection | IP30 |

## Networking

| | |
|---|---|
| Communication interface | Ethernet, WiFi, LTE |
| Ethernet port | 100M Base-T Ethernet with PoE |
| Antenna LoRa | RP-SMA female connector |
| Internal antenna | WiFi, LTE |

## Ethernet/Wi-Fi communication

| | |
|---|---|
| Recommended cabling | RJ45 (PoE 10/100 M) |
| Addressing | DHCP, Static IP |
| Device hostname | terabee-LORA-GTW-<serial-number> |
| Data protocols | LoRa |
| LoRa operating frequencies | EU433/CN470/EU868/US915/AS923/AU915/IN865/KR920 |
| LoRa transmit power | 27 dBm (Max) |
| LoRa receiver sensitivity | 139 dBm (Min) |
| WiFi frequency | 2.4 GHz (802.11b/g/n) |
| RX sensitivity | -95 dBm (Min) |
| TX power | 20 dBm (Max) |
| WiFi operative channel | 2.4 GHz 1-13 |

## Conformity

| | |
|---|---|
| Reference standard | Anatal, CE, FCC, JRL, KCC, RCM, REACH, RoHS, RSM, UKCA |

# Any questions? Contact us today!