GETTING STARTED WITH THE THINGS GATEWAY

For full installation, activation & setup please visit https://ttn.fyi/activate.

1. Mount the antenna onto the SMA connector on the Things Gateway.
2. (Optionally) Mount the ethernet cable.
3. Plug in the 12V 2A power adapter into the Things Gateway.
4. Continue with the steps as described in the illustrated quick-start guide for the Things Gateway found on https://ttn.fyi/activate.

INSTRUCTIONS FOR SAFE USE

The Things Gateway shall only be connected to an external power supply rated at 12V 2A. Any external power supply used with the Things Gateway shall comply with relevant regulations and standards applicable in the country of intended use.

Use a 915 MHz / 868 MHz tuned, 50 Ohm impedance antenna for use with the SMA connector.

The Things Gateway should be operated in a well-ventilated environment. Do not expose the Things Gateway to heat from any source; The Things Gateway is designed for reliable operation at normal ambient room temperatures (50-86°F).

The Things Gateway should be used in a vertical position, on a stable, non-conductive surface and should not be contacted by conductive items.

When the Things Gateway is being used always connect the right antenna to the SMA connector.

The Things Gateway has multiple modules onboard with the following frequency and output power:

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Maximum TX Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>LoRaWAN</td>
<td>915 MHz</td>
</tr>
<tr>
<td>1.25 to 1.5 km</td>
<td>27 dBm</td>
</tr>
<tr>
<td>863/868 MHz</td>
<td>2.412 to 2.472 GHz</td>
</tr>
<tr>
<td>20.7 dBm</td>
<td></td>
</tr>
<tr>
<td>Bluetooth 4.2</td>
<td>2.402 to 2.480 GHz</td>
</tr>
<tr>
<td>2.460 to 2.495 GHz</td>
<td></td>
</tr>
<tr>
<td>3 dBm</td>
<td></td>
</tr>
</tbody>
</table>

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The Things Gateway operates on the 915 MHz ISM band using the LoRaWAN protocol. Use a 915 MHz tuned, 50 Ohm impedance antenna. Bluetooth Low Energy & WiFi operate on the 2.4 GHz ISM band.

The Things Gateway is powered by a 12V 2A power adapter. Manufactured by Premier Farnell and other companies that are members of the Premier Farnell group in PRC.

The Things Products
Heerengracht 182
1016BR Amsterdam
The Netherlands
FCC ID: 2AJX4-GATEWAY
Contains FCC ID: W7O24WN0
Contains FCC ID: A8TBM71S2
THE THINGS GATEWAY
Model TTN-N01-915-1.0

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You are the network. Let’s build this thing together.