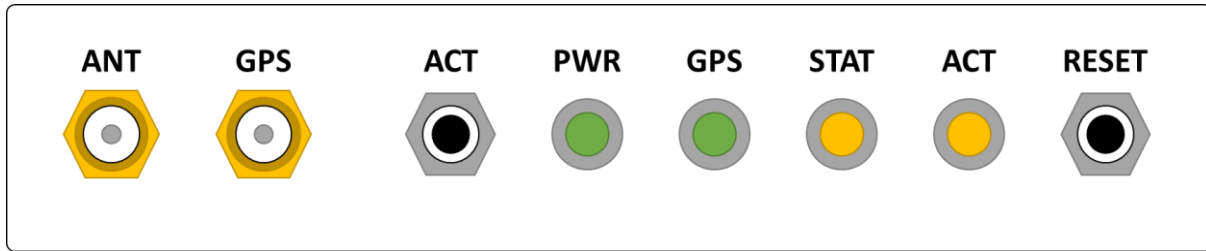


## PE1MEW TTN Mapper node V1.0 – Quick Reference Card

Front view:



### LED – indication:

### Meaning:

PWR



Power: LED is off = **Operation failed.**

The microprocessor has no power. External or internal power failure.

PWR



Power: LED is on = **Normal operation.**

GPS



GPS: LED is off = No GPS data. **Operation failed.**

The microprocessor does not receive data from the GPS.

GPS



GPS: LED is blinking slowly = GPS data received. **Operation inhibited.**

The microprocessor does receive data from the GPS but GPS has no FIX.

GPS



GPS: LED is on = GPS has FIX. **Normal operation.**

The microprocessor does receive valid data from the GPS.

STAT



Status: LED is off = No information. **Normal operation.**

STAT



Status: LED is on = Node is within geo-fence. **Operation inhibited.**

Transmissions are inhibited. Manual override allowed.

ACT



Activity: LED is off = No transmission. **Normal operation.**

ACT



Activity: LED is on = Transmission active. **Normal operation.**

ACT



GPS: LED is blinking rapidly = Radio configuration failed. **Operation failed.**

RESET



RESET: Resets the node.

ACT



ACT: Press ACT-button > 6 seconds during “Geo-fence” will initiate one transmission. Immediately the ACT-led will indicate a transmission.



This work is licensed under a [Creative Commons Attribution-NonCommercial 4.0 International License](https://creativecommons.org/licenses/by-nc/4.0/) by [PE1MEW](https://pe1mew.nl) E-mail: [pe1mew@pe1mew.nl](mailto:pe1mew@pe1mew.nl)

## PE1MEW TTN Mapper node V1.0 – Quick Reference Card

### Operation:



Powering: After applying power to the PE1MEW TTN Mapper initialisation will start and finish with all leds switched on to indicate proper functioning. After the led test the GPS led will start blinking to indicate reception of GPS data. When the GPS has a FIX the GPS led will be on and normal operation will start.

ACT

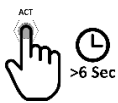


Transmissions are continuously with a 3 second delay between transmissions. A transmission is indicated with the ACT-led temporary switched on.

STAT



When the node is within a geo-fence the STAT-led is on. In a geo-fence transmissions are inhibited.



While within a geo-fence a transmission can be initiated by pressing the ACT-button more than 6 seconds.

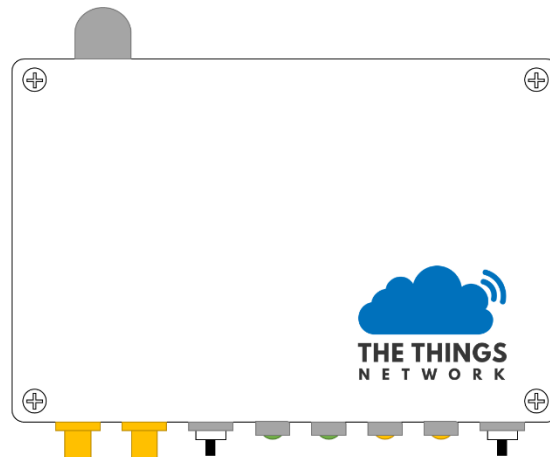
### Installation:

The PE1MEW TTN Mapper node requires a 12V DC power supply. 12V connection is through the wire at the back of the node.



Voltages between 12 and 40 Volts are allowed.  
Polarity shall be observed.

Back



Front

ANT



Reverse-SMA connector. Antenna shall be for usage at 868 MHz.

GPS



SMA connector. GPS antenna shall be equipped with preamplifier.



The GPS antenna connector carries 5 V DC and shall be prevented from short circuit situations.

Disclaimer: The PE1MEW TTN Mapper node is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.