everynet

everynet Network Gateway V2.0

FEATURE SET

- LoRaWAN™ network compliant
- Compact size 145 x 93 x 64 mm
- Simple to mount and install
- Integrated GPS and 3G antennas
- PoE IEEE 802.3af Class A, 48V
- Integrated backup battery
- Ruggedized housing
- White Label options

DESCRIPTION

The everynet Network Gateway product is a very compact, fully featured LoRaWAN™ complinant network base station. It has been designed to offer low cost, simple to install and to run LoRaWAN network infrastructure. With intergated GPS and 3G antennas, a PoE main supply with an intergated back up battery; both resilience and dual backhaul capabilities have been provsioned. The Gateway has a range of >15Km LoS and >2Km in dense urban enviroments.

The LoRaWAN™ Network Controller and all network management and monitoring is provided by the eveynet Core Network Platform.

HARDWARE:

- CPU: 454MHz, ARM926
- RAM: DDR2, 128Mb
- FLASH: NAND, 512Mb
- Battery powered Real time clock
- Temperature sensor
- CPU Temperature sensor
- Humidity sensor
- Battery voltage sensor
- Hardware watchdog
- Advanced power management (ability to cut power off any peripherals)

3G/ISM/GPS

- Internal GPS and 3G antennas
- Antenna lightning protection (V2.0)

COMMUNICATION:

- Ethernet 10/100 Base T
- HSDPA/UMTS 900/2100MHz, DL 21 Mbps, UL 5.76 Mbps
- UART for debug terminal
- LED indication
- Secured VPN, no need of external IP-address
- LoRaWAN™ compliant (EU868, US915)
- LoRa™ Sensitivity -141dB, 49 LoRa channels
- LoRa™ Antenna: gain - 10dBm, polarization - vertical,
- More than 15km range LoS and 2km in dense urban environment

GENERAL INFORMATION:

- Dimensions: 1450 x 930 x 640 mm
- Weight; 750g
- Operating rempera/ture: -40 ◦C/ +80 ◦C

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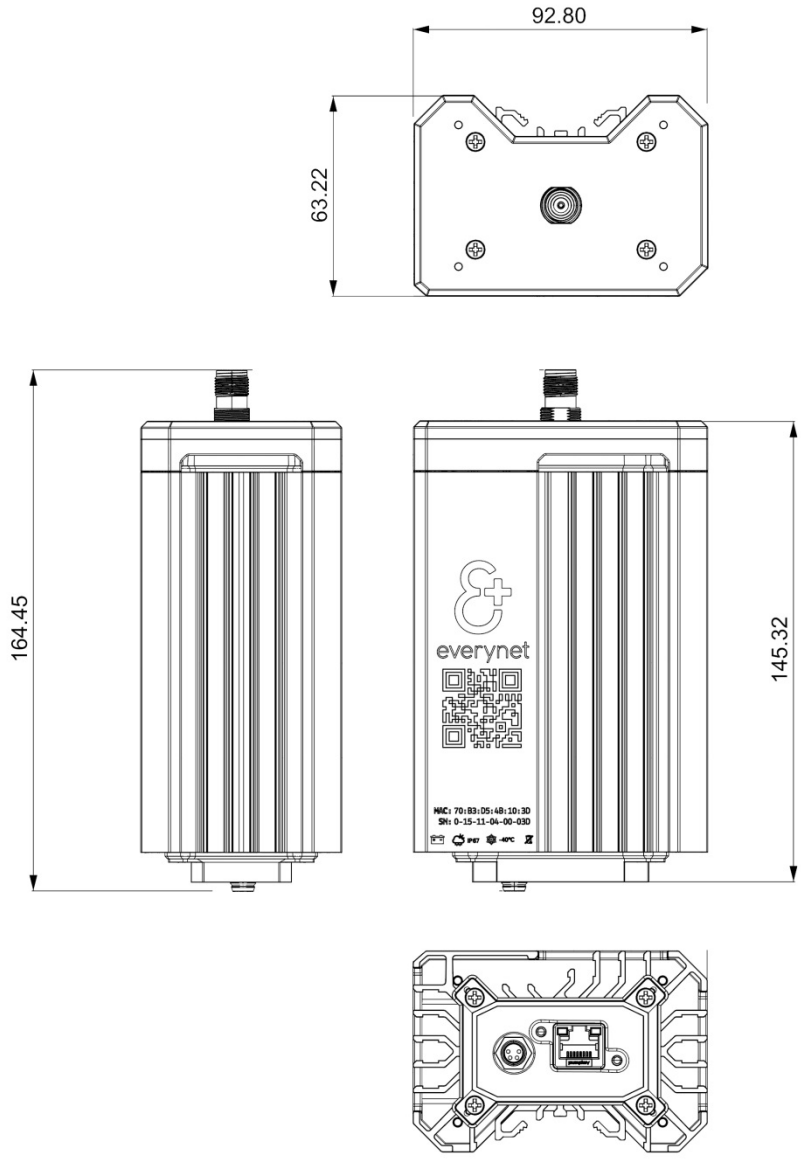
POWER:

- PoE IEEE 802.3af Class A, 48V
- Max. power consumption: 15W Internal 2000uAh Lo-Po battery (2-8 hours of operation)

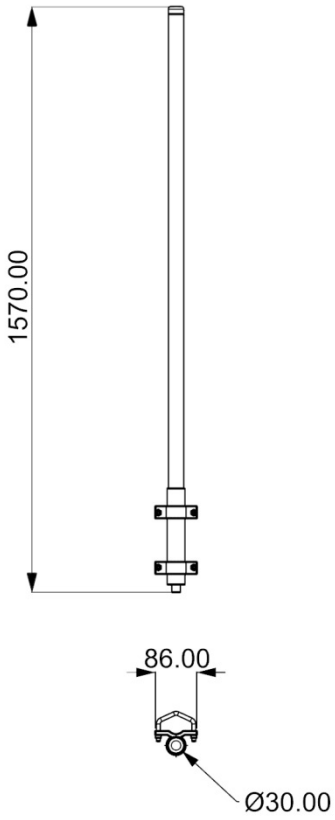
ENVIROMENT:

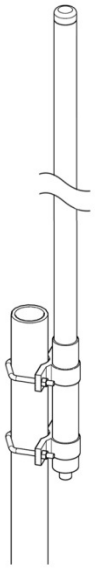
- Ingress protection IP67
- UV and Impact resistance

MECHACINAL DIAGRAM:



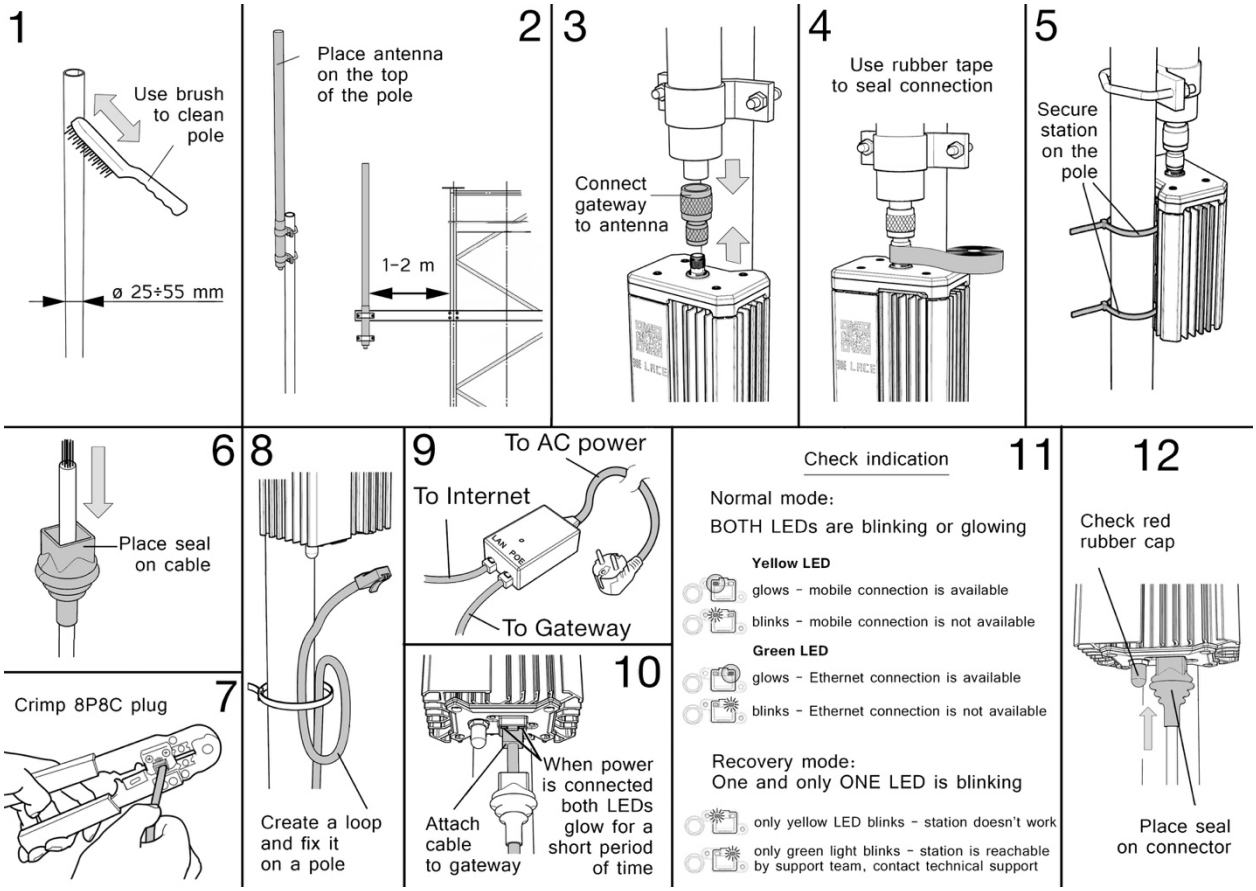
ANTENNA SPECIFICATIONS:





Mount: pipe ø25-55 mm
Weight: 750g

INSTALLATION GUIDE:



FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.
This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the followingmeasures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.
FCCID:2AJNF-GW1