

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™ compliant network base station. It has been designed to offer low cost, simple to install and to run LoRaWAN network infrastructure. With integrated GPS and 3G antennas, a PoE main supply with an integrated back up battery; both resilience and dual backhaul capabilities have been provisioned. The Gateway has a range of >15Km LoS and >2Km in dense urban environments.

The LoRaWAN™ Network Controller and all network management and monitoring is provided by the everynet 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)

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

3G/ISM/GPS

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

GENERAL INFORMATION:

- Dimensions: 1450 x 930 x 640 mm
- Weight; 750g
- Operating temperature: -40 °C/ +80 °C

Preliminary Product Brief V1.0

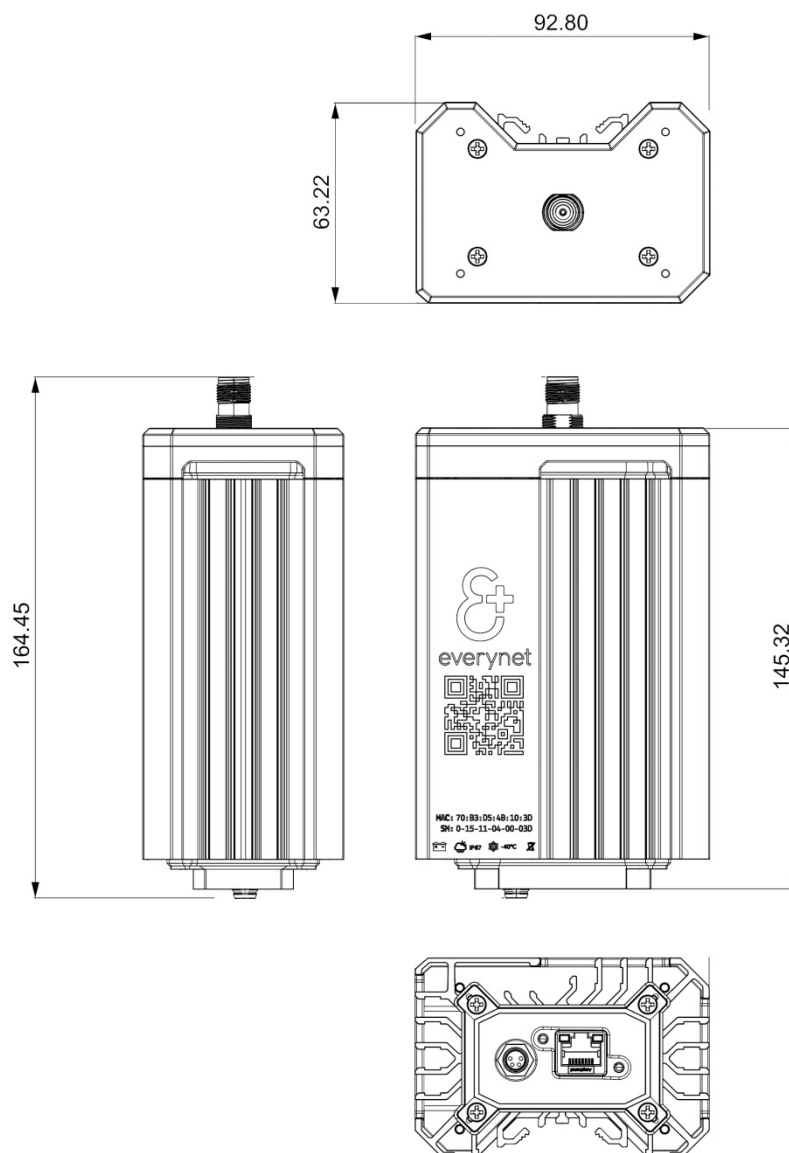
POWER:

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

ENVIROMENT:

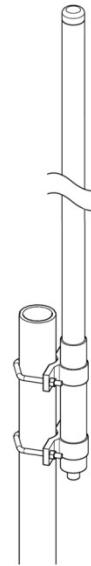
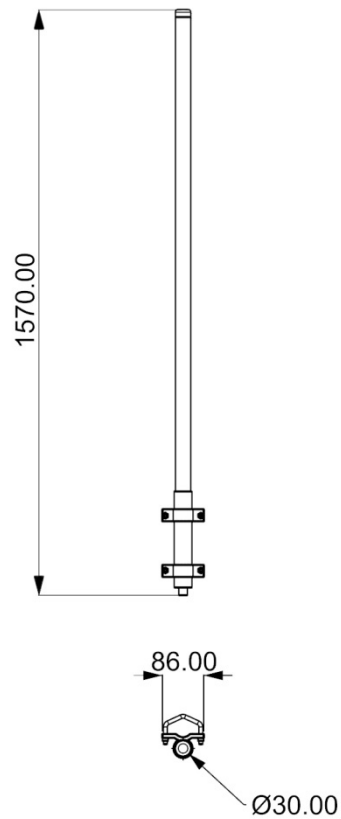
- Ingress protection IP67
- UV and Impact resistance

MECHACINAL DIAGRAM:



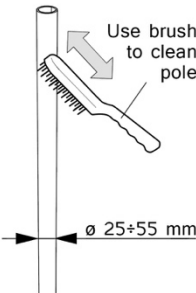
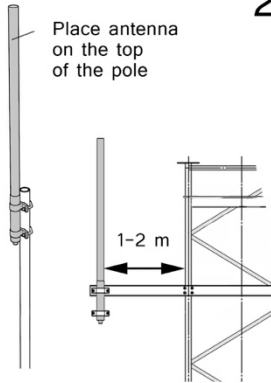
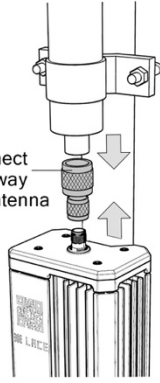
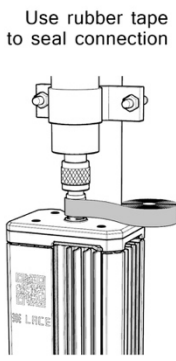
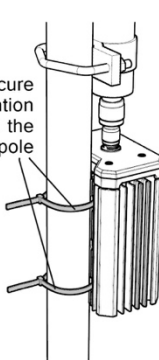
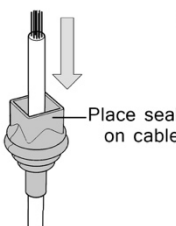
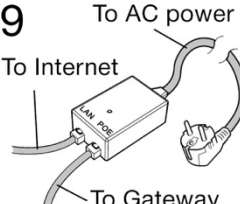
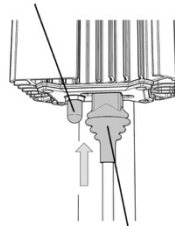
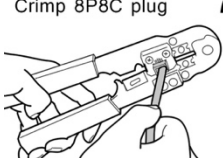
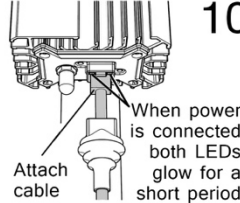
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ANTENNA SPECIFICATIONS:



Mount: pipe $\varnothing 25-55$ mm
Weight: 750g

INSTALLATION GUIDE:

1  Use brush to clean pole Ø 25±55 mm	2  Place antenna on the top of the pole 1-2 m	3  Connect gateway to antenna	4  Use rubber tape to seal connection	5  Secure station on the pole
6  Place seal on cable	8  Create a loop and fix it on a pole	9  To AC power To Internet To Gateway	11 <u>Check indication</u> Normal mode: BOTH LEDs are blinking or glowing Yellow LED - glows - mobile connection is available - blinks - mobile connection is not available Green LED - glows - Ethernet connection is available - blinks - Ethernet connection is not available Recovery mode: One and only ONE LED is blinking - only yellow LED blinks - station doesn't work - only green light blinks - station is reachable by support team, contact technical support	12  Check red rubber cap Place seal on connector
7  Crimp 8P8C plug	10  Attach cable to gateway When power is connected both LEDs glow for a short period of time			

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 following measures:

- 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.

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