

# Helios - LoRa Gateway - 923-2 MHz



Helios is the heart of the DeepWave system: it receives data from LoRa and saves them in the database of TSLog 21, the management software that can be validated and compatible with and regulations in the pharmaceutical, healthcare, medical and food sectors. LoRa data loggers they send the data detected by the Smart Sensors or by the internal temperature sensor via radio to Helios which saves them in its memory and manages the alarms. Helios, connected to your network via Ethernet, allows the connection of multiple computers with TSLog 21 to the database.

Helios must be powered from the mains and the power supply is included, as well as the Ethernet cable.



## Main features

- Ethernet connection to the local network and the Internet
- External antenna for greater signal range
- Large memory to manage a very large network of nodes and sensors
- Power supply included

## The system

The DeepWave system consists of:

- nodes Lo.Ra data logger with Smart Sensor for temperature, humidity, differential pressure, light and brightness
- Helios, LoRa gateway, data receiver connected to Ethernet
- TSLog 21 validation software

## Applications



Pharmaceutical



Healthcare



Cosmetics



Validation



Cold Chain



Environment



Food & Beverages



Laboratories



Medical



Warehouses



Industrial



Constructions

## Technical specifications

|                          |   |
|--------------------------|---|
| Dimensions               | 150 x 90 x 90 (mm)  |
| Weight                   | 600 g   |
| Communication            | Ethernet, WiFi, Radio   |
| Protocollo Radio         | LoRa  |
| Available frequencies    | 868 MHz, 915 MHz, 920 MHz, 923-2 MHz  |
| Frequency                | 923-2 MHz   |
| ERP                      | Tx Power up to 27 dBm (40mW)  |
| Alarms                   | Email, SMS (Internet connection required)   |
| Data loggers supported   | Juno, Venus, Mars, Deimos, Fobos, Moon, Gea, Mercury, Jupiter, Pluto, Neptune, Saturn |
| Power supply             | 5 V Micro USB (adapter included)  |
| Software&Mobile App      | TSLog 21  |
| Regulation compatibility | CE, ROHS  |

