

Modular sensing appliance based on Colibri platform

MODULAR

Based on the Colibri sensor platform, allowing for the configuration of sensing capabilities, by incorporating the necessary modules according to the needs of each application.

EXPANDABLE

Wide possibility of expansion and configuration since it supports the connection of up to 5 different expansion modules, processing module, power module, USB port, etc.

CONFIGURABLE

According to the specific needs of sensorization, more or less sensors, grid, solar or battery based power modules, different types of wireless or wired connectivity modules and information processing capabilities of up to 4 cores can be incorporated.



Configurable to measure:

- Pressure: 950 - 1080 hPa
- Humidity: 0-100%
- Temperature: -40 a 60°C
- Wind direction: 8 discrete directions
- Wind speed: 45 km/h
- Rain
- CO: 0 - 100 ppm
- CO2: 450 - 2000 ppm
- Volatile Organic Compunds: 125 - 650 ppb
- Particulates: PM2.5 or PM10
- Sound
- Ambient light
- UV light: UVA and UVB
- Tremors
- Optical based counting
- Radio spectrum: 50 MHz - 1.35 GHz



METEOROLOGICAL



COGNITIVE SERVICES



CLOUD

Modular, broad spectrum meteorological station based on the Colibri platform, developed by Inipop, whose objective is the survey of environmental information in urban and / or interior environments. Leveraging the use of IOT cloud based technologies and cognitive services for information processing, it improves the understanding of the city in real time and helps in decision making.

Cloud platform:

Cloud platform based on Microsoft Azure for storage, processing and visualization of the sensed data. Allows for real time and historical data visualization.

Processing capabilities:

Local processing of information through the use of a 4-core processor that allows for future expansion.

Cognitive capabilities:

Local or remote processing of the sensed data, by means of robotic vision technologies, to count quantities (for ex.: traffic of vehicles or pedestrians), and also to be able to identify events and/or the sources of noise present in the environment.

Uninterrupted power supply:

Power module with redundant power from a battery to operate when grid power is failing.

