

## **Libelium Presents at Intertraffic the New Enhanced Smart Parking Sensor Platform up to 99% Accurate**

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Committed to the continuous quality improvement of its wireless sensor platform, Libelium releases at Intertraffic a **new enhanced [Smart Parking Sensor Node](#)**, to detect available parking spots, now able to deliver 99% accuracy.

Ten minutes searching for **car parking** several times daily means **more than 240 hours per year**, and an average of 700 complete days in your life. Driving around looking for an available car slot **wastes fuel, produces anxiety and increases pollution** in city centers.

Libelium smart parking technology has been installed in different cities such as [Montpellier](#) (France) and Dubai (United Arab Emirates) to monitor free parking spaces in places such as shopping malls. These devices were also installed in the surface of the roadway on the parking areas for people with reduced mobility and delivery services with the aim **to relieve congestion, streamline traffic, and improve access to car park areas**.



This new [parking](#) node features two different detection systems, includes dual wireless communication protocols Sigfox / LoRaWAN and is able to be installed using a unique model over or under the road.

It is necessary to the [Smart Parking](#) device runs on a **magnetic detection system** than can be supported with a **cloud software system that evaluates the received signal strength indication (RSSI)**. Thus, if a car is parked on a spot, the system detects it by the variation of the magnetic field and by the weaker signal's received power. This dual sensing system can provide up to 99% accuracy under optimal conditions.

The new sensor is equipped with **IP68 waterproof and robust enclosure**. It allows twofold installation deployments as it can be **screwed on the surface or installed under the ground**. This feature is specially demanded on projects where snowplows operate in winter or to avoid theft. In both cases, the node can be easily reset by passing the powerful magnet provided over the device.



*Smart Parking installed on the surface and installed under the ground*

The new sensor system, **certified with CE and FCC**, is fully **compatible with LPWAN** radio technologies -**LoRaWAN** and **Sigfox**- to enable long range and low power consumption. It can be connected with both radios for the European 868 MHz band, the 900-930 MHz band (US/Canada) and recently added to the Australian band (915 MHz). Sigfox Parking version can also be used in LATAM and Asia Pacific countries (from 915MHz to 923MHz bands). One unique feature of the system is that allows the use of both radio technologies at the same time or switch from one to the other easily from the Cloud.

The [Smart Parking](#) device comes pre programmed from the factory so anyone -even those without programming skills- can **configure it in a few seconds** with the Libelium's Smart Devices App. Once the nodes have been installed, the Remote Setup System allows the user to remain in control and reconfigure all the parameters easily from the Cloud.

The [Smart Parking](#) nodes have an **expected lifetime up to ten years uninterrupted operation**, based on the high capacity batteries and low consumption software algorithms.

For more information, contact the [Libelium PR Department](#).