

Sparkpark digital parking infrastructure

Description and Brief Technical - one pager.

Sparkpark's vision is to transform urban mobility into an accessible, safe, and organized mode of transport for everyone by introducing **inclusive and responsible micromobility**. We empower cities and micromobility operators with a reliable, precise, and easy-to-implement parking solution

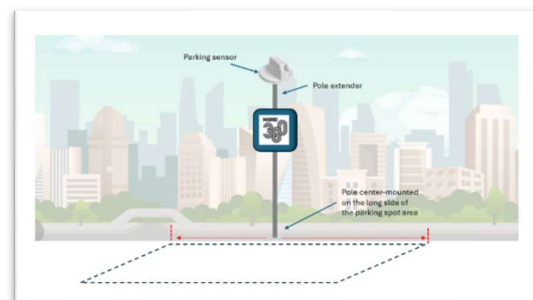
Our patented high-precision digital parking infrastructure brings safety, order, efficiency, and reliability to shared micromobility management, enabling scalable urban solutions that drive impact towards net-zero goals and promoting Sustainable Mobility.

Key Functionalities: Centimetre-Level Precision, Dynamic Parking Spots, Automated Parking Validation, Real-Time Monitoring and Analytics, Quick and Scalable Deployment, Customizable Parking Zones, Regulatory Compliance, Multimodal, Sustainability and Efficiency, Cost-Effective and Scalable.

Standalone small antennas that use **4G LTE-M networks**. Only requirement from the vehicles/smart lock is that they have **Bluetooth (v4.x->)**. Battery operated with solar cell for power. **Battery lifetime is indefinite** if requirements on 4G and sunlight are met. Can be mounted **on existing infrastructure** in the city as poles, walls, lampposts etc. Recommended installation height: **3-4-meter mounting height** above the parking spot, also to prevent vandalism.



Installation example of antenna and parking spot in Madrid



Each parking spot in our system can be individually calibrated not only according to the physical size of the parking area. Parking spots up **12 meters width**.

Each parking spot can be configured with open or a maximum limit for the number of vehicles allowed, ensuring organized and compliant parking. Configurable from 1 to 100 vehicles simultaneously. *Other user cases:*

- **Dynamic Area Adjustment dimensions of parking spots.** tensive areas with fewer antennas. This configuration provides a flexible solution for high-volume parking but at the expense of reduced precision.
- **Overflow capacity;** When existing racks are full, our system seamlessly manages overflow, ensuring correct and organized parking.
- **Pop-Up Parking Zones:** This adaptability allows cities to manage micromobility demand surges while maintaining efficient and organized parking. (festivals, concerts etc.)

We only track the **Bluetooth ID** in the shared micromobility vehicles ensuring no **GDPR violation**.

- **Environmental Regulations:** Supporting sustainability goals by optimizing space usage and reducing clutter and dangerous situations in the urban environment.

