Fleximodo
Digital Parking

Best Accuracy

IoT Parking Sensor
Mini Exterior 1.0

LoRa CERTIFIED | NB-IoT CERTIFIED | IK10 CERTIFIED | IP68 CERTIFIED | DNV MANAGEMENT SYSTEM CERTIFICATION ISO 14001 | DNV MANAGEMENT SYSTEM CERTIFICATION ISO 27001 | DNV MANAGEMENT SYSTEM CERTIFICATION ISO 45001 | DNV MANAGEMENT SYSTEM CERTIFICATION ISO 9001 | CE | FC
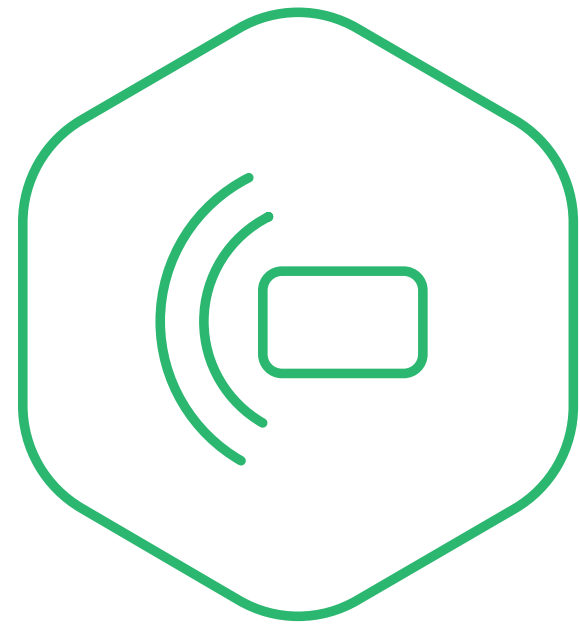
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FD010A49

Key differentiators

Electronic permitting

IoT Parking Sensors can be paired with IoT Permit Cards to provide an ID of each parker (authentication).

Data consistency

IoT infrastructure resistant to network outages – metrics are preserved after reconnection (no data loss).

Monitoring & control

Precise monitoring (with AI) of deployed devices, notifications, and seamless remote OTA control (logs, FW updates).

Detection resistance

Detection is accurate and reliable despite local interferences or frequent changes (noticing every status change).
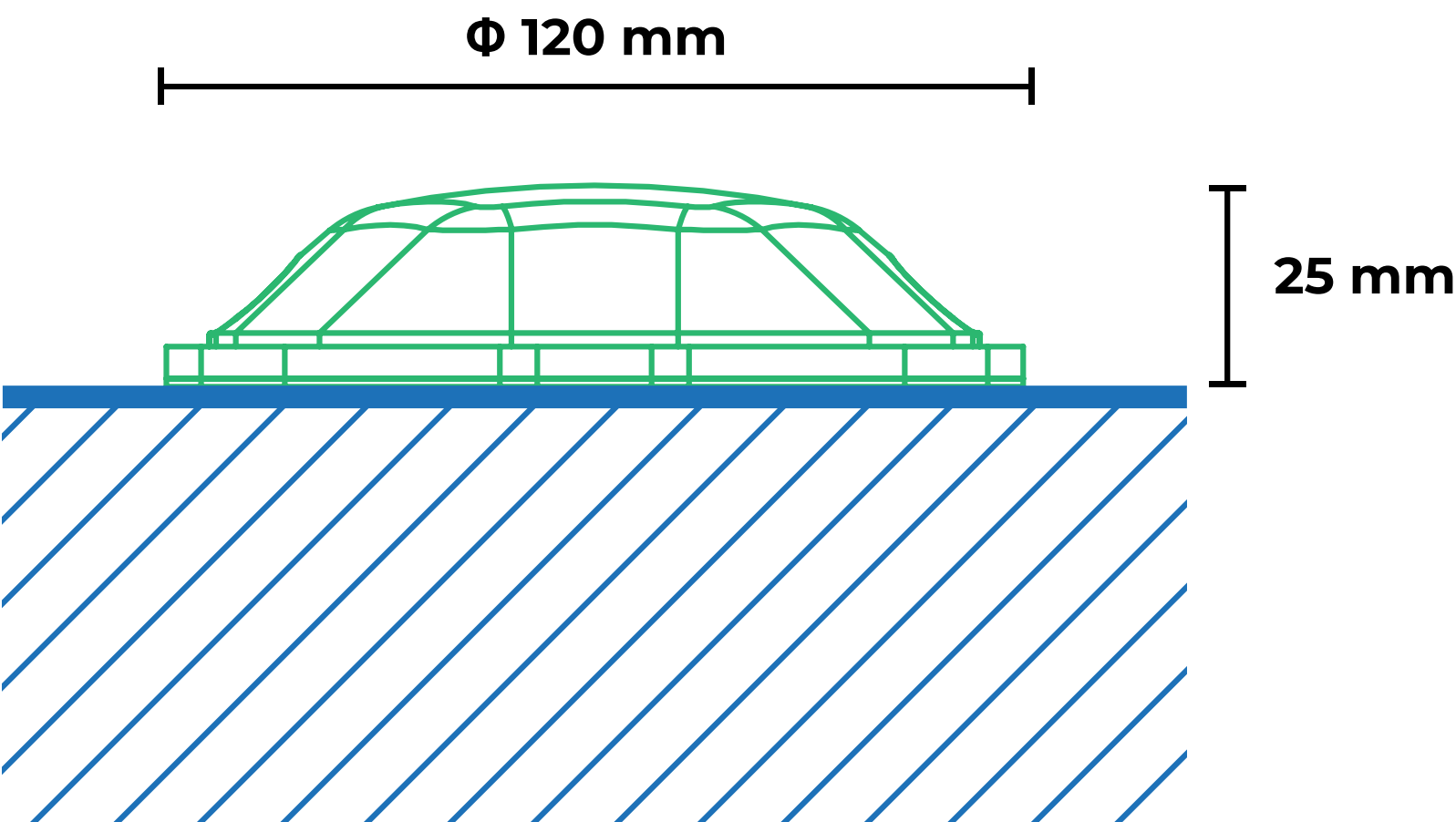
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IoT Parking Sensor
Mini Exterior 1.0

The IoT Parking Sensor detects and reports the presence or absence of a vehicle on a parking slot and enables parking management.

Detection method	**3-axis magnetic field & nanoradar**
Weight	**230 g**
Dimensions	**Φ 120 mm, ↕ 25 mm**
Casing	**Ultrasonically welded into one piece**
Ingress protection	**IP68**
Impact resistance	**IK10**
Operating temperature	**-40 to +75 °C**
Power	**3.6 V, 3.6 Ah**
Battery life	**See calculation on clientzone.fleximodo.com**
Network	**LoRaWAN**
Manufacturer certification	**ISO 9001, ISO 14001, ISO 45001**

Φ 120 mm

25 mm

Technical specs and features

Combined two-way sensing
Magnetometric and nanoradar with enhanced detection reliability –
up to 99 %.

Autocalibration
Based on a robust algorithm for the magnetometer.
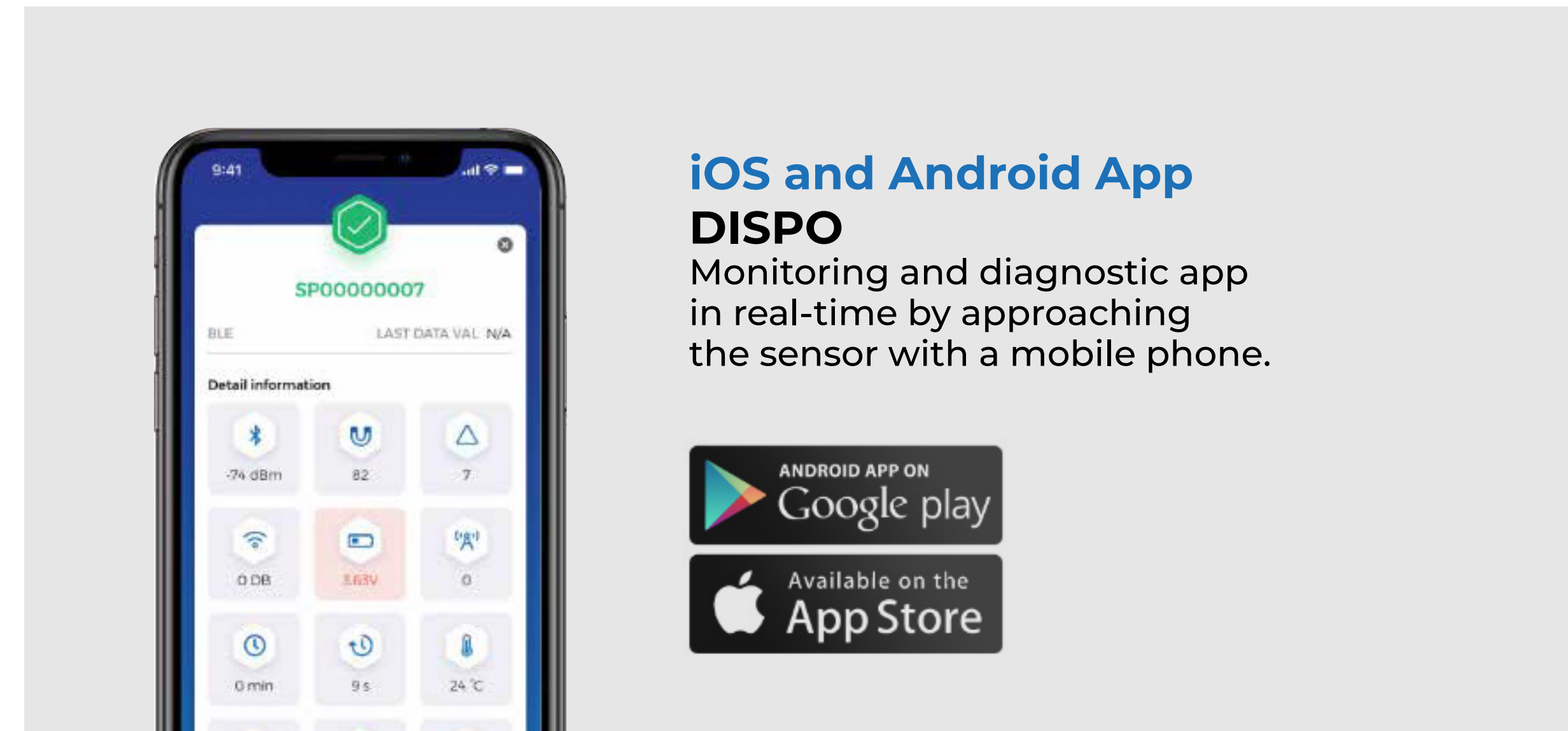
Certification validation
Approved by Deutsche Telekom AG & Vodafone.

Own antenna design
Optimized for IoT network LoRa.

Data consistency
Resistance to connectivity outage. Data is not lost but is being
transmitted after connectivity recovery.

iOS and Android App
DISPO
Monitoring and diagnostic app
in real-time by approaching
the sensor with a mobile phone.

ANDROID APP ON
Google play

Available on the
App Store

www.fleximodo.com

Casing, quality, and installation

Ultrasonically welded
100% hermetic sealing with IP68 ingress protection.
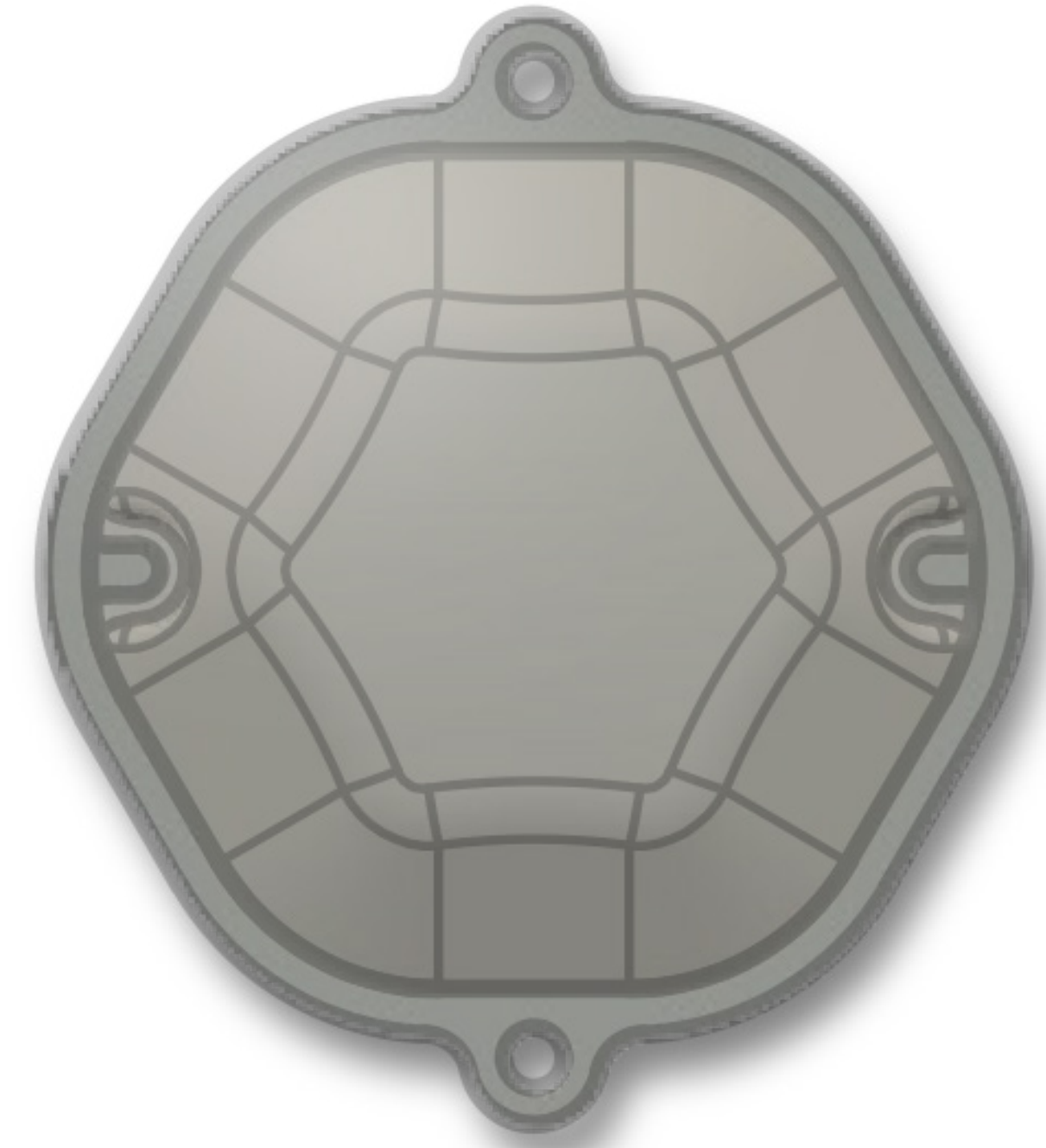
Minimalistic form factor
Straightforward on-surface installation requiring minimal equipment.

AOI and RTG inspection
Electronic assembly inspected by AOI (automatic optical inspection) and RTG.

Tested and inspected
Operational lifetime of 6 years established through thermal cycling chamber (-30 to +60 °C).

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 14001

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 27001

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 45001

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001

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Architecture and security
Fleximodo DOTA

Although not necessary for the functioning of the sensors, this central system management application tracks and controls all sensors deployed.

Advantages of using DOTA

— GIS-based tracking of deployment localities. Monitoring of sensor health and quality of network connectivity.

— Integrated with SHMA Monitoring for transparent overview.

— Firmware and OnBoard Logs transfer capability.

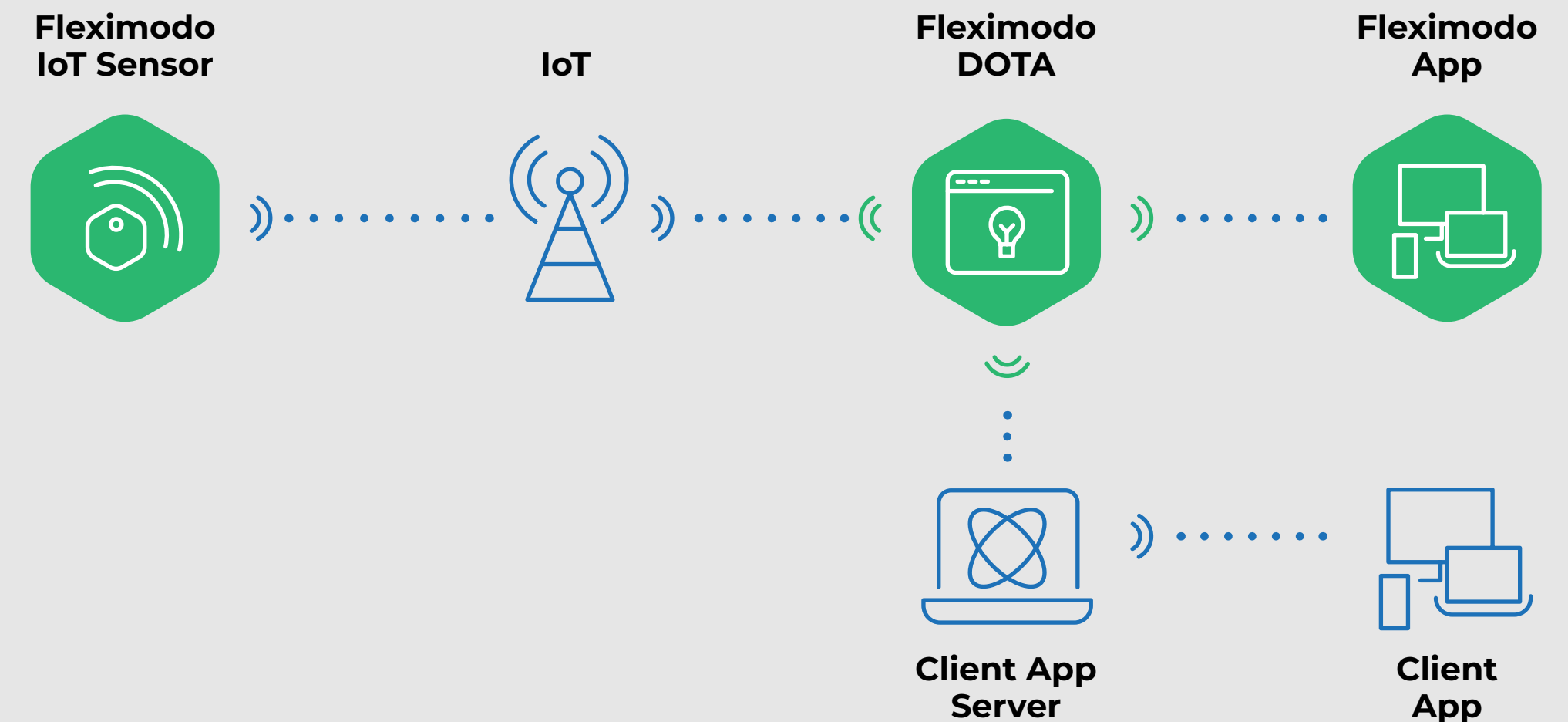— Analytics, statistics, and future predictions of parking traffic.

SHMA Monitoring Sensors overview

Fleximodo DOTA Sensor detail

Private APN secures IoT connection (sensor – cloud)

Fleximodo IoT Sensor

IoT

Fleximodo DOTA

Fleximodo App

Client App Server

Client App

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