

Global Smart Parking Geomagnetic Vehicle Detection Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Smart Parking Geomagnetic Vehicle Detection Sensor market size is expected to reach \$ 346 million by 2032, rising at a market growth of 10.6% CAGR during the forecast period (2026-2032).

A smart parking geomagnetic vehicle detection sensor is a low-power IoT endpoint installed on, in, or below an individual parking bay to detect real-time parking occupancy. It typically uses a magnetometer, AMR/GMR magnetic sensing element, Hall-effect device, or a three-axis magnetic field sensor to identify disturbances in the earth's magnetic field caused by the metallic mass of a vehicle. The embedded firmware and detection algorithm then determine whether a parking space is vacant, occupied, entering, leaving, or overstaying. Main product forms include magnetic-only parking sensors, magnetic-plus-radar dual-mode sensors, magnetic-plus-infrared or magnetic-plus-ultrasonic hybrid sensors, and LPWAN-enabled parking occupancy terminals using NB-IoT, LoRaWAN, LTE-M, Cat.1, Sigfox, or proprietary Sub-GHz connectivity. These devices are generally battery-powered, weatherproof, tamper-resistant, remotely configurable, and designed for multi-year operation in curbside parking, open lots, campuses, commercial facilities, airports, industrial sites, scenic areas, and EV charging bays.

Based on our research, the smart parking geomagnetic vehicle detection sensor market should be understood as a narrowly defined IoT hardware segment rather than the broader smart parking systems market. The core value of this product lies in generating stall-level, real-time occupancy data, which can then be used by parking guidance, enforcement, payment, curbside management, EV charging supervision, and municipal parking analytics platforms. This study therefore focuses on geomagnetic,

magnetometer-based, and geomagnetic-led hybrid single-space parking detection devices. Software platforms, parking operations, license plate recognition cameras, handheld enforcement terminals, gates, payment kiosks, patrol vehicles, installation services, and general parking management systems are excluded from the revenue model. This narrower boundary produces a much smaller market size than broad smart parking estimates, but it better reflects the actual OEM and sensor terminal supplier landscape.

From the product roadmap perspective, the industry is moving from magnetic-only detection to hybrid sensing. Single magnetic detection is low-cost and power-efficient, but it can be affected by magnetic interference, vehicle height, nearby traffic, underground infrastructure, and environmental noise. To improve reliability, vendors increasingly combine magnetic sensing with millimeter-wave radar, ultrasonic sensing, infrared detection, motion sensing, or multi-algorithm calibration. This transition is visible in both Chinese NB-IoT dual-mode devices and international LPWAN parking sensors. Over the 2026-2032 period, competitive differentiation will likely depend less on the sensor shell itself and more on detection algorithms, battery-life management, device health monitoring, remote configuration, installation flexibility, and integration with city-level parking data platforms.

Demand growth is expected to come from municipal curbside parking digitization, campus and hospital parking management, commercial parking utilization analytics, EV charging bay supervision, and enforcement-oriented occupancy monitoring. China remains one of the most active deployment markets because of roadside parking programs and operator-supported NB-IoT infrastructure, while North America is more focused on campuses, municipalities, and curb-management use cases. Europe is shaped by urban congestion control, parking guidance, and sustainable mobility agendas. The key risk is substitution by camera-based AI, patrol vehicles, radar systems, and connected-vehicle data. Nevertheless, geomagnetic parking sensors should retain a meaningful role where low power consumption, individual-space accuracy, weather resistance, and minimal civil infrastructure are more important than rich visual recognition.

This report studies the global Smart Parking Geomagnetic Vehicle Detection Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Smart Parking Geomagnetic Vehicle Detection Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report

explores demand trends and competition, as well as details the characteristics of Smart Parking Geomagnetic Vehicle Detection Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Smart Parking Geomagnetic Vehicle Detection Sensor total production and demand, 2021-2032, (Units)

Global Smart Parking Geomagnetic Vehicle Detection Sensor total production value, 2021-2032, (USD Million)

Global Smart Parking Geomagnetic Vehicle Detection Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Smart Parking Geomagnetic Vehicle Detection Sensor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Smart Parking Geomagnetic Vehicle Detection Sensor domestic production, consumption, key domestic manufacturers and share

Global Smart Parking Geomagnetic Vehicle Detection Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Smart Parking Geomagnetic Vehicle Detection Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Smart Parking Geomagnetic Vehicle Detection Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Smart Parking Geomagnetic Vehicle Detection Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hangzhou Hikvision Digital Technology Co., Ltd., Smart Parking Limited, Banner Engineering Corp., Sensys Networks, Inc., Libelium Comunicaciones Distribuidas S.L., Urbiotica S.L., PNI Sensor Corporation, MOKO Technology Ltd., Nwave Technologies, eleven-x Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Smart Parking Geomagnetic Vehicle Detection Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Smart Parking Geomagnetic Vehicle Detection Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Smart Parking Geomagnetic Vehicle Detection Sensor Market, Segmentation by Type:

Geomagnetic-only Sensor

Geomagnetic + Radar Sensor

Geomagnetic + Infrared Sensor

Other Product Types

Global Smart Parking Geomagnetic Vehicle Detection Sensor Market, Segmentation by Installation Method:

In-ground Sensor

Surface-mounted Sensor

Other Installation Methods

Global Smart Parking Geomagnetic Vehicle Detection Sensor Market, Segmentation by Structural Protection Level:

Standard Outdoor Sensor

High-protection Outdoor Sensor

Other Protection Types

Global Smart Parking Geomagnetic Vehicle Detection Sensor Market, Segmentation by Power Supply Design:

Primary Battery-powered Sensor

Rechargeable Battery Sensor

External Power-assisted Sensor

Other Power Designs

Global Smart Parking Geomagnetic Vehicle Detection Sensor Market, Segmentation by Application:

EV Charging Bay Occupancy Detection

Time-based Parking Monitoring

Enforcement-support Detection

Other Application Scenarios

Companies Profiled:

Hangzhou Hikvision Digital Technology Co., Ltd.

Smart Parking Limited

Banner Engineering Corp.

Sensys Networks, Inc.

Libelium Comunicaciones Distribuidas S.L.

Urbiotica S.L.

PNI Sensor Corporation

MOKO Technology Ltd.

Nwave Technologies

eleven-x Inc.

Option NV

Datakorum S.L.

Shenzhen Bosk Electronic Co., Ltd.

Wuxi Hwasy Sensor Info Tech Co., Ltd.

Hangzhou MoveBroad Technology Co., Ltd.

Vtrantech

Beijing Dingtek Technology Corp., Ltd.

Xiamen Keytop Communication Technology Co., Ltd.

Macnman

WoMaster

STE Industries S.r.l.

Wiicontrol Information Technology Co., Ltd.

Fleximodo

HKT LORA

Key Questions Answered:

1. How big is the global Smart Parking Geomagnetic Vehicle Detection Sensor market?
2. What is the demand of the global Smart Parking Geomagnetic Vehicle Detection Sensor market?
3. What is the year over year growth of the global Smart Parking Geomagnetic Vehicle Detection Sensor market?
4. What is the production and production value of the global Smart Parking Geomagnetic Vehicle Detection Sensor market?
5. Who are the key producers in the global Smart Parking Geomagnetic Vehicle Detection Sensor market?
6. What are the growth factors driving the market demand?

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