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Global Smart Parking Chip Market Growth 2026-2032

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Abstracts

The global Smart Parking Chip market size is predicted to grow from US$ 938 million in 2025 to US$ 2435 million in 2032; it is expected to grow at a CAGR of 15.0% from 2026 to 2032.

Smart parking chips are core integrated circuits used in smart parking systems to achieve vehicle recognition, parking space detection, communication connectivity, data processing, and control management. They are commonly used in smart parking sensors, parking locks, barriers, cameras, parking payment terminals, and vehicle-to-everything (V2X) devices, supporting functions such as RFID, Bluetooth, NB-IoT, UWB, and image recognition.

Upstream industries mainly include wafer fabrication, MCUs, RF chips, communication chips, sensors, memory, power management chips, packaging materials, and electronic components. Downstream industries primarily serve smart parking equipment manufacturers, parking lot operators, commercial complexes, residential communities, airports, hospitals, and urban smart transportation management platforms.

The global average price of smart parking chips is approximately $4.7 per chip, with sales ranging from 180 million to 230 million units, and an industry profit margin of 45%.

The future global smart parking chip market will be continuously driven by the construction of smart urban transportation, the digitization of parking resources, and the popularization of new energy vehicles. As parking systems upgrade from traditional fee management to unmanned, networked, and refined operations, chips will develop towards high integration, low power consumption, multi-protocol communication, and edge AI. Functions such as parking space detection, license plate recognition, contactless payment, indoor positioning, automated parking assistance, and cloud management will be further integrated. Meanwhile, technologies such as NB-IoT,

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Bluetooth, UWB, and 5G will expand the connectivity of smart parking terminals. Future competition among manufacturers will focus more on low-power design, recognition accuracy, communication stability, data security, cost control, and system compatibility with smart city platforms.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Smart Parking Chip Industry Forecast” looks at past sales and reviews total world Smart Parking Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected Smart Parking Chip sales for 2026 through 2032. With Smart Parking Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Smart Parking Chip industry.

This Insight Report provides a comprehensive analysis of the global Smart Parking Chip landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Smart Parking Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Smart Parking Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Smart Parking Chip and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Smart Parking Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of Smart Parking Chip market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Parking Detection Chip

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Vehicle Identification Chip

Parking Control Chip

Communication Chip

Edge AI Chip

Payment and Security Chip

Segmentation by Sensing Technology:

Ultrasonic Sensing Chip

Millimeter-Wave Radar Chip

Magnetic Sensing Chip

Image Sensor Chip

UWB Positioning Chip

Multi-Sensor Fusion Chip

Segmentation by Deployment Location:

Parking Space Sensor Chip

Parking Gate Chip

Parking Camera Chip

Parking Meter Chip

Vehicle-Side Parking Chip

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Parking Edge Gateway Chip

Segmentation by Application:

Smart Parking Equipment Manufacturers

Parking Lot Operators

Commercial Complexes

Residential Communities

Airports

Hospitals

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

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- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

- STMicroelectronics

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NXP Semiconductors

Infineon Technologies

Nordic Semiconductor

Texas Instruments

Qualcomm

onsemi

Ambarella

AMD

Semtech

Renesas Electronics

Sony Semiconductor

Socionext

Horizon Robotics

Black Sesame Technologies

UNISOC

SemiDrive

Rockchip

Key Questions Addressed in this Report

What is the 10-year outlook for the global Smart Parking Chip market?

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What factors are driving Smart Parking Chip market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Smart Parking Chip market opportunities vary by end market size?

How does Smart Parking Chip break out by Type, by Application?

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