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Global In-Car Wireless Charging Modules Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global In-Car Wireless Charging Modules market size was valued at US$ 1479 million in 2024 and is forecast to a readjusted size of USD 6209 million by 2031 with a CAGR of 22.8% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

In-car wireless charging is an embedded component installed in the car that can wirelessly charge smartphones, wearable devices, and any Qi-enabled device. The system uses an induction coil to generate an electromagnetic field to transfer energy from the transmitter unit to the receiver unit. The receiver unit then converts the energy into a safe and efficient power source that can wirelessly charge a variety of Qi-enabled devices, including smartphones, headphones, smart watches, etc.

With the rise of smart cockpits and autonomous driving, in-car wireless charging modules have become a key automotive feature. Consumers demand more convenient and efficient charging solutions, prompting automakers to integrate wireless charging across more vehicle models. Currently, the market is divided into 15W and 40W/50W charging solutions, applied to both internal combustion engine (ICE) vehicles and new energy vehicles (NEVs). As NEVs become mainstream and premium vehicles adopt smarter infotainment systems, high-power wireless charging will drive the future market, while 15W charging remains the dominant choice for ICE vehicles, with gradual advancements toward higher power solutions.

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In product segmentation, 15W charging is the industry standard due to its Qi protocol compatibility, cost efficiency, and broad adoption in mid-to-high-end ICE and NEV models. However, high-power wireless charging (40W/50W) is rapidly gaining traction, especially in the NEV segment. Faster wireless charging eliminates the slow charging bottleneck of conventional solutions, while optimized cooling technologies (air/liquid-cooled systems) ensure safety and efficiency. Brands like Tesla, NIO, and XPeng have already integrated 40W+ wireless charging in select models, and future developments could push charging power beyond 60W.

In application trends, the demand for wireless charging differs between ICE vehicles and NEVs. The ICE segment remains dominant, but its 12V/24V electrical architecture limits adoption of high-power charging, keeping 15W modules as the primary choice. However, premium ICE brands like BMW and Mercedes-Benz are increasingly adopting higher-power wireless charging for a superior user experience. In contrast, NEVs with 400V/800V architectures are more suited for high-power wireless charging, accelerating the adoption of 40W/50W solutions, with future potential for 80W or higher.

Looking ahead, smart, high-power, and standardized wireless charging will define the market. Future innovations will integrate automatic device recognition, intelligent temperature control, and optimized charging efficiency to enhance the user experience. As battery technology advances, high-power wireless charging will become mainstream in premium models. Lastly, wireless charging standardization (e.g., Qi2 protocol) will improve cross-brand compatibility, driving industry-wide adoption. With NEV growth, smart cockpit integration, and technological breakthroughs, the in-car wireless charging market is set for rapid expansion.

This report is a detailed and comprehensive analysis for global In-Car Wireless Charging Modules market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global In-Car Wireless Charging Modules market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit),

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2020-2031

Global In-Car Wireless Charging Modules market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global In-Car Wireless Charging Modules market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global In-Car Wireless Charging Modules market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for In-Car Wireless Charging Modules

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global In-Car Wireless Charging Modules market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Continental, Laird, LG Electronics, Tesla, Aptiv, Hefei InvisPower, Huayang, Nidec, Luxshare Precision Industry, Zhejiang Taimi Science and Technology, etc.

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

Market Segmentation

In-Car Wireless Charging Modules market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and

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value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

15W

40/50W

Market segment by Application

Internal Combustion Engines

New Energy Vehicles

Major players covered

Continental

Laird

LG Electronics

Tesla

Aptiv

Hefei InvisPower

Huayang

Nidec

Luxshare Precision Industry

Zhejiang Taimi Science and Technology

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Shenzhen Sunway Communication

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe In-Car Wireless Charging Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of In-Car Wireless Charging Modules, with price, sales quantity, revenue, and global market share of In-Car Wireless Charging Modules from 2020 to 2025.

Chapter 3, the In-Car Wireless Charging Modules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the In-Car Wireless Charging Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

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quantity, consumption value, and market share for key countries in the world, from 2020 to 2025.and In-Car Wireless Charging Modules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of In-Car Wireless Charging Modules.

Chapter 14 and 15, to describe In-Car Wireless Charging Modules sales channel, distributors, customers, research findings and conclusion.

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