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South Korea 5G Infrastructure Market Size, Share, Trends and Forecast by Communication Infrastructure, Network Technology, Network Architecture, Frequency, End User, and Region, 2026-2034

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Abstracts

The South Korea 5G infrastructure market size reached USD 388.4 Million in 2025. The market is projected to reach USD 7,416.6 Million by 2034, exhibiting a growth rate (CAGR) of 37.62% during 2026-2034. Increased investments in 5G infrastructure by the public and private sectors are accelerating the deployment of high-speed, low-latency networks across the country. Besides this, as more industries, homes, and cities are integrating connected devices, ranging from smart appliances to industrial sensors, the need for a robust communication network is becoming essential, fueling the South Korea 5G infrastructure market share.

SOUTH KOREA 5G INFRASTRUCTURE MARKET TRENDS:

Rising expenditure on 5G infrastructure development

Increased investments in 5G infrastructure by the public and private sectors are accelerating the deployment of high-speed, low-latency networks in South Korea. The government is actively supporting 5G development through funding, regulatory support, and strategic partnerships aimed at maintaining South Korea’s position as a worldwide leader in telecommunications. As per industry reports, South Korea's 5G network exhibited a 9.2% increase in speed in 2024. Private telecom companies and technology firms are wagering on building advanced base stations, fiber-optic networks, and related infrastructure to ensure seamless connectivity and expand coverage. These investments are facilitating the rollout of next-generation services, such as smart cities,

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autonomous vehicles, telemedicine, and industrial automation. Enhanced 5G infrastructure also enables the widespread adoption of cloud computing services, creating new opportunities for innovations and efficiency. Public-private collaboration is leading to faster implementation timelines, improved service quality, and greater network resilience. Additionally, the integration of 5G with artificial intelligence (AI), augmented reality, and edge computing is transforming user experiences across sectors. This robust investment climate is not only fueling technological advancements but also boosting job creation, stimulating economic activity, and attracting global partnerships. As the demand for high-performance connectivity continues to grow, the ongoing expenditure ensures that South Korea's 5G infrastructure is evolving rapidly to meet the needs of a digitally driven society.

Increasing utilization of Internet of Things (IoT)

Rising IoT adoption is propelling the South Korea 5G infrastructure market growth. According to industry reports, the South Korea IoT sector expanded by almost 2 Trillion Won (USD 1.45 Billion) in 2024. As more industries, homes, and cities are integrating connected devices, ranging from smart appliances and wearable health monitors to industrial sensors and autonomous systems, the need for a robust communication network is becoming essential. 5G infrastructure supports the high device density and real-time data exchange that IoT applications require. In South Korea, where smart city development, digital healthcare, and intelligent transportation systems are rapidly broadening, 5G plays a critical role in ensuring seamless and efficient IoT operations. The ultra-reliable and low-latency nature of 5G enables uninterrupted machine-to-machine communication, remote monitoring, and automation across various sectors. Telecom companies and tech firms continue to invest in expanding 5G coverage to support this interconnected ecosystem. As IoT devices are becoming more embedded in daily life and business operations, the need to strengthen 5G infrastructure is growing.

SOUTH KOREA 5G INFRASTRUCTURE MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional levels for 2026-2034. Our report has categorized the market based on communication infrastructure, network technology, network architecture, frequency, and end user.

Communication Infrastructure Insights:

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Small Cell

Macro Cell

Radio Access Network (RAN)

Others

The report has provided a detailed breakup and analysis of the market based on the communication infrastructure. This includes small cell, macro cell, radio access network (RAN), and others.

Network Technology Insights:

Software-Defined Networking

Network Function Virtualization

Others

A detailed breakup and analysis of the market based on the network technology have also been provided in the report. This includes software-defined networking, network function virtualization, and others.

Network Architecture Insights:

Standalone

Non-Standalone

The report has provided a detailed breakup and analysis of the market based on the network architecture. this includes standalone and non-standalone.

Frequency Insights:

Sub-6 Ghz

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Above 6 Ghz

A detailed breakup and analysis of the market based on the frequency have also been provided in the report. This includes sub-6 Ghz and above 6 Ghz.

End User Insights:

Automotive

Energy and Utilities

Healthcare

Home User

Others

The report has provided a detailed breakup and analysis of the market based on the end user. This includes automotive, energy and utilities, healthcare, home user, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam

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(Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT
How has the South Korea 5G infrastructure market performed so far and how will it perform in the coming years?
What is the breakup of the South Korea 5G infrastructure market on the basis of communication infrastructure?
What is the breakup of the South Korea 5G infrastructure market on the basis of network technology?
What is the breakup of the South Korea 5G infrastructure market on the basis of network architecture?
What is the breakup of the South Korea 5G infrastructure market on the basis of frequency?
What is the breakup of the South Korea 5G infrastructure market on the basis of end user?
What is the breakup of the South Korea 5G infrastructure market on the basis of region?
What are the various stages in the value chain of the South Korea 5G infrastructure market?
What are the key driving factors and challenges in the South Korea 5G infrastructure market?
What is the structure of the South Korea 5G infrastructure market and who are the key players?
What is the degree of competition in the South Korea 5G infrastructure market?

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