

Global 5G for Railways Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 5G for Railways market size is expected to reach \$ 7352 million by 2032, rising at a market growth of 19.5% CAGR during the forecast period (2026-2032). 5G for Railways, embodied by the Future Railway Mobile Communication System (FRMCS), serves as the cornerstone for the digital transformation of global rail networks. Based on 5G Release 16 and beyond, it addresses the limitations of the legacy GSM-R system, such as narrow bandwidth and spectral inefficiency. By integrating Ultra-Reliable Low-Latency Communication (URLLC) and massive Machine-Type Communications (mMTC), it enables a leap from simple dispatching voice calls to comprehensive situational awareness, autonomous train operations (ATO), and smart maintenance. Specifically designed for high-mobility environments, this technology effectively mitigates Doppler shift to ensure seamless real-time transmission of control signals at speeds of 350km/h and above.

This report studies the global 5G for Railways demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for 5G for Railways, 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 5G for Railways that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 5G for Railways total market, 2021-2032, (USD Million)

Global 5G for Railways total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: 5G for Railways total market, key domestic companies, and share, (USD Million)

Global 5G for Railways revenue by player, revenue and market share 2021-2026, (USD Million)

Global 5G for Railways total market by Type, CAGR, 2021-2032, (USD Million)

Global 5G for Railways total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global 5G for Railways market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ericsson, Huawei, Nokia, Samsung, ZTE, China Mobile, China Telecom, China Unicom, Verizon, AT&T, 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 5G for Railways market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 5G for Railways Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 5G for Railways Market, Segmentation by Type:

Hardware

Software

Services

Global 5G for Railways Market, Segmentation by Service Categories:

Critical Services

Performance Services

Global 5G for Railways Market, Segmentation by Application:

High-Speed Mobility

Tunnel & Underground

Station & Shunting

Train-to-Ground TB-Data

Others

Companies Profiled:

Ericsson

Huawei

Nokia

Samsung

ZTE

China Mobile

China Telecom

China Unicom

Verizon

AT&T

Deutsche Telekom AG

Vodafone Group

SK Telecom

NTT

KT Corporation

NEC

Fujitsu

Key Questions Answered

1. How big is the global 5G for Railways market?
2. What is the demand of the global 5G for Railways market?
3. What is the year over year growth of the global 5G for Railways market?
4. What is the total value of the global 5G for Railways market?
5. Who are the Major Players in the global 5G for Railways market?

6. What are the growth factors driving the market demand?

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