

# Global 5G for Railway Mobile Communication System Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GE76ADE87510EN.html>

Date: January 2026

Pages: 131

Price: US\$ 4,480.00 (Single User License)

ID: GE76ADE87510EN

## Abstracts

The global 5G for Railway Mobile Communication System 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-R (5G for Railway Mobile Communication System) is the next-generation dedicated wireless communication system specifically designed for railway operations. Built upon the 3GPP 5G standard, it serves as the primary radio access technology for the FRMCS (Future Railway Mobile Communication System) framework, aimed at replacing the legacy GSM-R networks. 5G-R provides high-reliability, low-latency, and high-bandwidth connectivity to support mission-critical railway services, including railway dispatching, Train Control Systems (such as ETCS/CTCS), real-time diagnostics, and high-definition video surveillance, forming the backbone of smart and autonomous railway infrastructure.

This report studies the global 5G for Railway Mobile Communication System demand, key companies, and key regions.

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

Highlights and key features of the study

Global 5G for Railway Mobile Communication System total market, 2021-2032, (USD Million)

Global 5G for Railway Mobile Communication System total market by region & country, CAGR, 2021-2032, (USD Million)

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

Global 5G for Railway Mobile Communication System revenue by player, revenue and market share 2021-2026, (USD Million)

Global 5G for Railway Mobile Communication System total market by Type, CAGR, 2021-2032, (USD Million)

Global 5G for Railway Mobile Communication System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global 5G for Railway Mobile Communication System 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 Railway Mobile Communication System 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 Railway Mobile Communication System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 5G for Railway Mobile Communication System Market, Segmentation by Type:

Hardware

Software

Services

Global 5G for Railway Mobile Communication System Market, Segmentation by Service Categories:

Critical Services

Performance Services

Global 5G for Railway Mobile Communication System 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 Railway Mobile Communication System market?
2. What is the demand of the global 5G for Railway Mobile Communication System market?
3. What is the year over year growth of the global 5G for Railway Mobile Communication System market?
4. What is the total value of the global 5G for Railway Mobile Communication System market?
5. Who are the Major Players in the global 5G for Railway Mobile Communication System market?
6. What are the growth factors driving the market demand?

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