

The 5G and Mobile Network Infrastructure Market is Projected to Reach \$245.4 Billion by 2030 Driven by Robust Industry

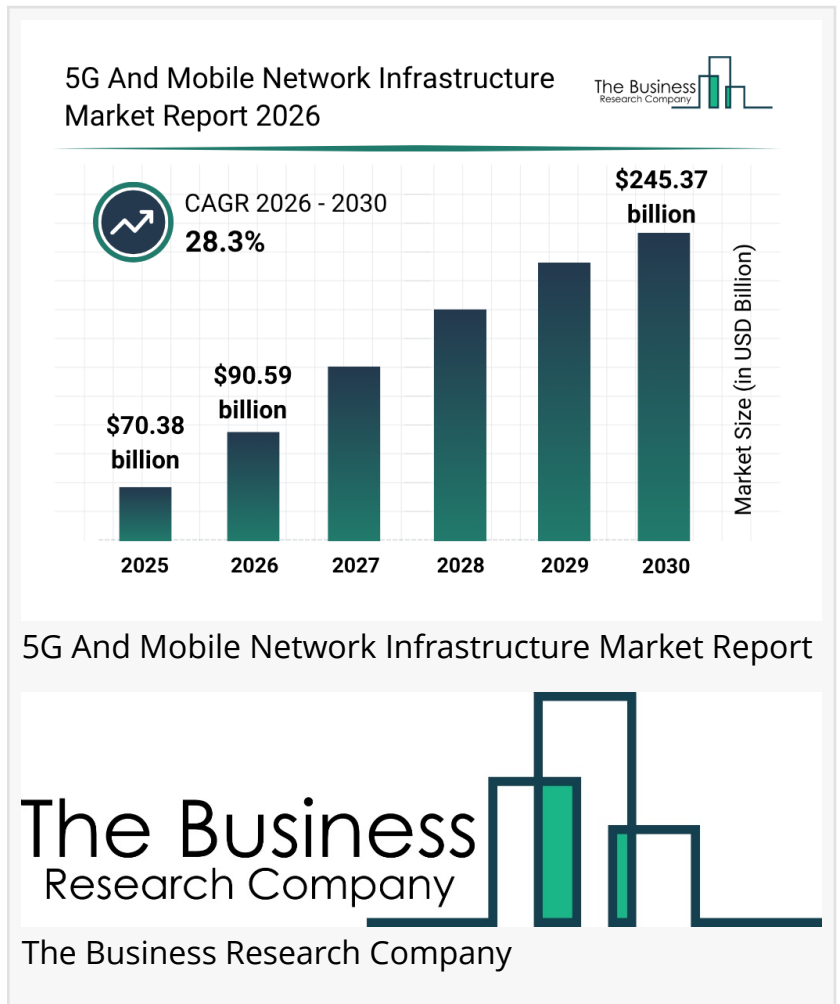
The Business Research Company's 5G and Mobile Network Infrastructure Global Market Report 2026 – Market Size, Trends, And Forecast 2026-2035

LONDON, GREATER LONDON, UNITED KINGDOM, October 9, 2026 /EINPresswire.com/ -- The telecommunications sector is undergoing a remarkable transformation with the rapid advancement of 5G and mobile network infrastructure. These technologies are reshaping how data is transmitted and accessed globally, enabling faster speeds and more reliable connections. To understand the scale and momentum of this market, let's explore its current size, growth drivers, regional dynamics, and future trends.

Market Size of the [5G and Mobile Network Infrastructure Market](#) in 2026

The 5G and mobile network infrastructure market has witnessed substantial growth in recent years. It is projected to expand from \$70.38 billion in 2025 to \$90.59 billion in 2026, marking an impressive compound annual growth rate (CAGR) of 28.7%. This surge has been driven by the rising volume of mobile data traffic, the increasing penetration of smartphones, a stronger demand for high-speed connectivity, wider deployments of 4G networks, and the pressing need to enhance mobile network capacity.

Download a free sample of the [5g and mobile network infrastructure market report](#):



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Anticipated Growth Trajectory and Future Market Size for 5G Infrastructure

Looking ahead, the market is expected to grow even more rapidly, reaching \$245.37 billion by 2030 with a CAGR of 28.3%. This forecasted expansion is fueled by the rapid rollout of 5G networks, a growing demand for ultra-low latency connections, broader adoption of private mobile networks, an increase in connected devices, and heightened interest in network virtualization. Key emerging trends during this period include the adoption of open RAN technology, integration of edge computing to support low-latency services, network slicing to provide customized connectivity, advanced spectrum-sharing techniques, and a focus on energy-efficient, environmentally friendly network infrastructure.

Understanding 5G and Mobile Network Infrastructure Technologies

5G and mobile network infrastructure encompasses the cutting-edge telecommunications equipment, systems, and technologies that facilitate the deployment, management, and operation of next-generation wireless networks. These infrastructures leverage high-speed connectivity solutions, sophisticated networking technologies, and smart network management to deliver faster data transmission, lower latency, greater network capacity, and improved reliability. They are essential to providing scalable connectivity and efficient network performance while addressing the evolving demands of modern digital communication services.

View the full 5g and mobile network infrastructure market report:

https://www.thebusinessresearchcompany.com/report/5g-and-mobile-network-infrastructure-market-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Oct_PR

Mobile Data Traffic as a Key Market Growth Driver

One of the primary factors propelling the growth of the 5G and mobile network infrastructure market is the rapid increase in mobile data traffic. This term refers to the amount of data transmitted over mobile networks via devices such as smartphones, tablets, and connected gadgets. The widespread adoption of smartphones and the popularity of data-heavy activities like video streaming, social media engagement, gaming, and various online applications are contributing to this surge. As a result, networks require greater capacity, faster speeds, and low-latency features to meet these demands.

Mobile Data Traffic Trends Supporting Infrastructure Expansion

Supporting this growth, a June 2024 report from Ericsson, a telecommunications company based in Sweden, highlighted that mobile network data traffic increased by approximately 6% quarter-on-quarter between Q4 2023 and Q1 2024, reaching a global total of 145 exabytes (EB). This rapid traffic growth underscores how essential advanced mobile network infrastructure is for sustaining the increasing number of devices and data-intensive services in use worldwide.

Regional Leaders in the 5G and Mobile Network Infrastructure Market

In terms of regional market dominance, North America held the largest share of the 5G and mobile network infrastructure market in 2025. Meanwhile, Asia-Pacific is projected to experience the fastest growth throughout the forecast period. The comprehensive market analysis covers multiple regions, including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a thorough understanding of global market dynamics.

New additions to our 2026 reports:

- Market attractiveness scoring and analysis
- Total addressable market (TAM) analysis
- Company scoring matrix graphics and tables
- Excel-based forecasting dashboards
- Market hotspots infographics
- Key technologies and future trend analysis
- Updated graphics and tables

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