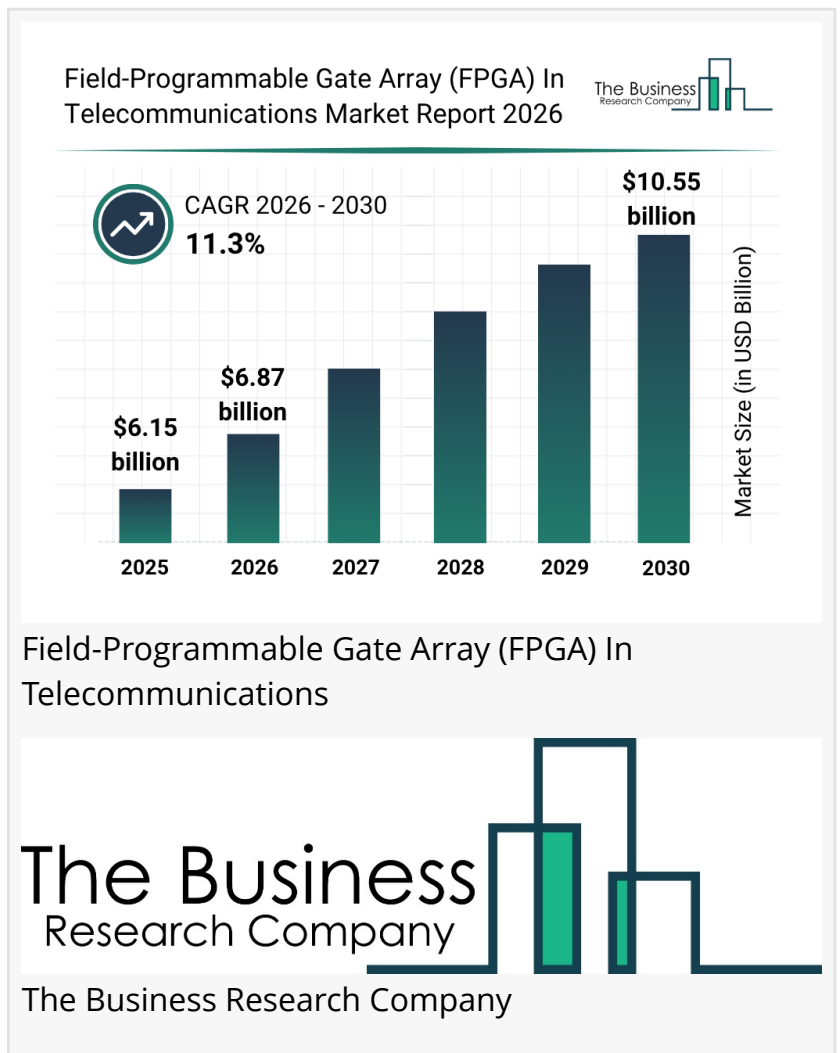


Industry Outlook for Field-Programmable Gate Array (FPGA) in Telecommunications Strengthens as Global Demand Increases

The Business Research Company's Field-Programmable Gate Array Global Market Report 2026 – Market Size, Trends, And Forecast 2026-2035

LONDON, GREATER LONDON, UNITED KINGDOM, October 14, 2026 /EINPresswire.com/ -- The telecommunications industry is experiencing rapid advancements, particularly with the integration of innovative technologies like field-programmable gate arrays (FPGAs). These adaptable semiconductor devices are playing a crucial role in shaping how communication networks operate, especially as demand for faster, more efficient connections continues to grow. Let's explore the current market size, growth factors, leading regions, and key drivers influencing the FPGA market in telecommunications.



Projected Market Size and Growth

Trajectory of the FPGA in Telecommunications Market

The FPGA market within the telecommunications sector has seen impressive growth in recent years. It is projected to expand from a market size of \$6.15 billion in 2025 to \$6.87 billion in 2026, representing a compound annual growth rate (CAGR) of 11.8%. This surge has been largely driven by the increasing rollout of 5G infrastructure, a rising need for high-speed network processing, broader adoption of programmable network equipment, the escalating complexity of telecom protocols, and the growing demand for low-latency signal processing solutions.

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https://www.thebusinessresearchcompany.com/sample_request?id=56197383&type=smp&name=Field-Programmable%20Gate%20Array%20%28FPGA%29%20In%20Telecommunications%20Market%20Report%202026&utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Oct_PR

Looking ahead, the FPGA in telecommunications market is expected to maintain its rapid expansion, reaching \$10.55 billion by 2030 with a CAGR of 11.3%. This forecasted growth is supported by the rising demand for flexible 5G and emerging 6G network architectures, greater deployment of edge computing telecom infrastructure, stronger requirements for [high-performance optical transport networks](#), real-time network traffic management, and the increasing integration of programmable security solutions within telecom networks. Key trends shaping this future include wider adoption of reconfigurable FPGA architectures, heightened demand for high-speed and low-latency FPGA processing, advanced protocol processing capabilities, support for multiple network protocols, and a focus on energy-efficient FPGA products for telecom applications.

Understanding FPGA Technology in Telecommunications

Field-programmable gate arrays (FPGAs) are versatile semiconductor devices that can be programmed and reprogrammed after manufacturing. This unique ability makes them ideal for specialized networking, signal processing, and communication functions within telecom equipment. FPGAs enable telecom systems to handle high-speed data processing, offer low latency, support flexible protocol implementations, and allow rapid deployment of new network features. Their applications cover critical areas such as 5G infrastructure, optical transport networks, and network edge devices, making them fundamental components in modern telecommunications.

View the full field-programmable gate array (fpga) in telecommunications market report:

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Primary Drivers Propelling Growth in the FPGA Telecommunications Market

The expansion of 5G infrastructure stands out as a key factor driving the FPGA market in telecommunications. 5G infrastructure includes physical and digital elements like small cells, base stations, antennas, fiber optic networks, and core network components that deliver advanced wireless communication services. The ongoing build-out of 5G networks is fueled by the increasing demand for high-speed, low-latency connectivity, necessary to support data-heavy applications and the surge in connected devices worldwide.

This growing 5G network infrastructure is boosting demand for FPGAs because of their ability to provide high-speed, low-latency, and reconfigurable processing capabilities that align with

advanced wireless networks and evolving communication standards. For example, a report from the UK's Office of Communications (Ofcom) in December 2023 showed that the UK had over 18,500 5G deployments across roughly 81,000 sites, up from about 12,000 deployments in 2022, marking a significant year-over-year increase. This clear expansion of 5G infrastructure directly supports the rising use of FPGAs in telecom.

Leading Regions in the [Global FPGA Telecommunications Market](#)

In 2025, North America held the largest share of the FPGA market in telecommunications, reflecting its strong technological infrastructure and advanced telecom networks. Meanwhile, the Asia-Pacific region is expected to be the fastest-growing market during the forecast period, driven by rapid digital transformation and telecom infrastructure development in countries like China, India, and Southeast Asia. The comprehensive market analysis also includes regions such as South East Asia, Western Europe, Eastern Europe, South America, the Middle East, and Africa, offering a broad view of global market dynamics and regional growth patterns.

The 2026 edition of our market reports now delivers enhanced analytical coverage through 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, plus updated graphics and tables.

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