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5G Core Market – Global Industry Size, Share, Trends, Opportunity, and Forecast. 2018-2028F. Segmented By Component (Solution, Service), By Deployment Mode (Cloud, On Premise), By End User (Consumer, Enterprises), By Network Functions (AMF (Access and Mobility Management Function), SMF (Session Management Function), UPF (User Plane Function), PCF (Policy Control Function), NEF (Network Exposure Function), NRF (NF Repository Function), UDM (Unified Data Management), AUSF (Authentication Server Function), AF (Application Function), NSSF (Network Slice Selection Function) and others), By Region, Competition

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Abstracts

Global 5G core market is anticipated to thrive in the forecast period 2024-2028. The rising demand for service-based and cloud-native architecture is the key factor fueling the expansion of the 5G core market. Furthermore, there are many potential for market expansion given the rising demand for 5G private networks among businesses, governments, and industrial sectors. However, the 5G core market's growth over the projected period may be slowed by worries about data security in the 5G core network along with high deployment costs.

The 5G Core is the core of 5G mobile network (5GC). It establishes a connection between end users and the network and grants them dependable and secure access to

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its services. Numerous mobile network functions, including connectivity and mobility management, authentication and authorization, subscriber data management, and policy management are handled by the core domain. Regardless of the underlying cloud architecture, 5G Core network services are totally software-based and cloud-native, offering better deployment agility and flexibility. Industry experts outlined how the core network should change to accommodate 5G New Radio's (NR) requirements as well as the additional use cases that 5G would make possible. They worked together to develop the 3GPP 5G Core standard for core networks (5GC).

Increasing Necessity of Cloud-Native & Service-Based Framework

The need for low-cost data storage, backup, and data protection is one of the driving forces propelling small and medium-sized organisations (SMEs). Businesses may provide better IoT services to various industrial verticals by using the cloud. The connected supply chain and intelligent manufacturing techniques heavily rely on connected and smart products. The creation of reasonably priced connected devices has also enabled manufacturers to leverage IoT technology to cut down on resource usage and increase overall productivity. IoT applications also have a low operational cost, which encourages many firms to include them into their gear in order to boost productivity and cut costs. The 5G Core offers technologies that were previously not available in mobile core networks, such as a service-based architecture (SBA), cloud-native network functions built on containers and based on microservices as well as cloud infrastructure, which collectively represent a significant technological shift. These new technologies will alter how businesses construct, manage, operate, and monetize this new core network. In order to create a 5G core market, it is essential to totally re-engineer the network and organisation from end to end, aiming for high levels of automation and agility when delivering new innovative services.

Construction Of Smart Infrastructure to Fuel the Market Demand

The rate at which 5G is implemented across the world will decide how quickly it becomes a crucial technology of smart cities. Today, cities are home to about 55% of the world's population. By 2050, the United Nations projects that this percentage will have been increased to 68%. By the same year, the population of the world's main cities will have increased by 2.5 billion due to the continued movement of people from rural to urban regions and overall population growth. In order for smart city projects to be implemented successfully, telecommunications infrastructure and its application for public safety are essential. In order for smart city projects to be implemented successfully, telecommunications infrastructure and its application for public safety are

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essential. Every city needs to make sure that communication channels are developed and available if it wants to realise the concept of smart cities in an open and resource-efficient way. The fundamental tenet of smart cities is that resource and operations management in so many large cities can only be economical and successful if it is automated and networked for instance driverless vehicles, remote healthcare, traffic safety management, and electric grid management. All these factors are helping in boosting the growth in the 5G core market.

Advancements in Network Infrastructure

The new 5th generation specification, known as the 5G core network framework, serves the growing demand for high connection speed performance in both developed and developing countries. The MEC framework, which is key to the 5G architectural ideas, can be used to create the software functions of virtual servers, which are another focus of the 5G core. During 2024 and 2028, the adoption of IoT applications and escalating technological advancements in machine-to-machine communication networks are projected to open up new prospects for the worldwide 5G core network market. Additionally, between 2024 and 2028, the telecommunications industry's adoption of virtual networking architecture will increase along with the expanding demand for private 5G connections among businesses, industrial sectors, and the government.

Market Segmentation

The 5G Core market is segmented into component, deployment mode, end user, networking functions and region. By component, it is divided into solution, service. The deployment mode area segment is further categorized into cloud and on premise. Depending on end user, the market is fragmented into consumer amd enterprise. Based on networking functions, market is segmented into AMF (Access and Mobility Management Function), SMF (Session Management Function), UPF (User Plane Function), PCF (Policy Control Function), NEF (Network Exposure Function), NRF (NF Repository Function), UDM (Unified Data Management), AUSF (Authentication Server Function), AF (Application Function), NSSF (Network Slice Selection Function) and others.

Market Player

Major market players in the global 5G core market are Affirmed Networks, Inc., NEC Corporation, Cisco Systems Inc., Samsung Electronics Co. Ltd., Hewlett Packard Enterprise Development LP, Nokia Corporation, Oracle Corporation ,

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Telefonaktiebolaget LM Ericsson, Huawei Technologies Co. Ltd., ZTE Corporation.

Report Scope:

In this report, the Global 5G Core market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- 5G Core Market, By Component
  - Solution
  - Services
- 5G Core Market, By Deployment Mode
  - Cloud
  - On Premise
- 5G Core Market, By End User
  - Consumer
  - Enterprises
- 5G Core Market, By Network Functions
  - AMF (Access and Mobility Management Function)
  - SMF (Session Management Function)
  - UPF (User Plane Function)
  - PCF (Policy Control Function)
  - NEF (Network Exposure Function)
  - NRF (NF Repository Function)

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- UDM (Unified Data Management)
- AUSF (Authentication Server Function)
- AF (Application Function)
- NSSF (Network Slice Selection Function)
- Others

5G Core Market, By Region:

- North America
  - United States
  - Canada
  - Mexico
- Asia-Pacific
  - India
  - Japan
  - South Korea
  - Australia
  - Singapore
  - Malaysia
- Europe
  - Germany
  - United Kingdom

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France

Russia

Spain

Belgium

Italy

South America

Brazil

Argentina

Colombia

Peru

Chile

Middle East

Saudi Arabia

South Africa

UAE

Israel

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global 5G

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Core market.

Available Customizations:

Global 5G Core market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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Contents

1. Service Overview
1.1. Market Definition
1.2. Scope of the Market
  1.2.1. Markets Covered
  1.2.2. Years Considered for Study
  1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

2.1. Objective of the Study
2.2. Baseline Methodology
2.3. Key Industry Partners
2.4. Major Association and Secondary Sources
2.5. Forecasting Methodology
2.6. Data Triangulation & Validation
2.7. Assumptions and Limitations

3. IMPACT OF COVID-19 ON GLOBAL 5G CORE MARKET

4. EXECUTIVE SUMMARY

5. VOICE OF CUSTOMERS

6. GLOBAL 5G CORE MARKET OUTLOOK

6.1. Market Size & Forecast
  6.1.1. By Value
6.2. Market Share & Forecast
  6.2.1. By Component (Solution, Service)
  6.2.2. By Deployment Mode (Cloud, On Premise)
  6.2.3. By End User (Consumer, Enterprises)
  6.2.4. By Network Functions (AMF (Access and Mobility Management Function), SMF (Session Management Function), UPF (User Plane Function), PCF (Policy Control Function), NEF (Network Exposure Function), NRF (NF Repository Function), UDM (Unified Data Management), AUSF (Authentication Server Function), AF (Application Function), NSSF (Network Slice Selection Function) and others)
  6.2.5. By Region

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6.3. By Company
6.4. Market Map

7. NORTH AMERICA 5G CORE MARKET OUTLOOK

7.1. Market Size & Forecast
7.1.1. By Value
7.2. Market Share & Forecast
7.2.1. By Component
7.2.2. By Deployment Mode
7.2.3. By End User
7.2.4. By Network Functions
7.2.5. By Country
7.3. North America: Country Analysis
7.3.1. United States 5G Core Market Outlook
7.3.1.1. Market Size & Forecast
7.3.1.1.1. By Value
7.3.1.2. Market Share & Forecast
7.3.1.2.1. By Component
7.3.1.2.2. By Deployment Mode
7.3.1.2.3. By End User
7.3.1.2.4. By Network Functions
7.3.2. Canada 5G Core Market Outlook
7.3.2.1. Market Size & Forecast
7.3.2.1.1. By Value
7.3.2.2. Market Share & Forecast
7.3.2.2.1. By Component
7.3.2.2.2. By Deployment Mode
7.3.2.2.3. By End User
7.3.2.2.4. By Network Functions
7.3.3. Mexico 5G Core Market Outlook
7.3.3.1. Market Size & Forecast
7.3.3.1.1. By Value
7.3.3.2. Market Share & Forecast
7.3.3.2.1. By Component
7.3.3.2.2. By Deployment Mode
7.3.3.2.3. By End User
7.3.3.2.4. By Network Functions

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8. ASIA-PACIFIC 5G CORE MARKET OUTLOOK

8.1. Market Size & Forecast
8.1.1. By Value
8.2. Market Share & Forecast
8.2.1. By Component
8.2.2. By Deployment Mode
8.2.3. By End User
8.2.4. By Network Functions
8.2.5. By Country
8.3. Asia-Pacific: Country Analysis
8.3.1. China 5G Core Market Outlook
8.3.1.1. Market Size & Forecast
8.3.1.1.1. By Value
8.3.1.2. Market Share & Forecast
8.3.1.2.1. By Component
8.3.1.2.2. By Deployment Mode
8.3.1.2.3. By End User
8.3.1.2.4. By Network Functions
8.3.2. India 5G Core Market Outlook
8.3.2.1. Market Size & Forecast
8.3.2.1.1. By Value
8.3.2.2. Market Share & Forecast
8.3.2.2.1. By Component
8.3.2.2.2. By Deployment Mode
8.3.2.2.3. By End User
8.3.2.2.4. By Network Functions
8.3.3. Japan 5G Core Market Outlook
8.3.3.1. Market Size & Forecast
8.3.3.1.1. By Value
8.3.3.2. Market Share & Forecast
8.3.3.2.1. By Component
8.3.3.2.2. By Deployment Mode
8.3.3.2.3. By End User
8.3.3.2.4. By Network Functions
8.3.4. South Korea 5G Core Market Outlook
8.3.4.1. Market Size & Forecast
8.3.4.1.1. By Value
8.3.4.2. Market Share & Forecast

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8.3.4.2.1. By Component
8.3.4.2.2. By Deployment Mode
8.3.4.2.3. By End User
8.3.4.2.4. By Network Functions
8.3.5. Australia 5G Core Market Outlook
8.3.5.1. Market Size & Forecast
8.3.5.1.1. By Value
8.3.5.2. Market Share & Forecast
8.3.5.2.1. By Component
8.3.5.2.2. By Deployment Mode
8.3.5.2.3. By End User
8.3.5.2.4. By Network Functions
8.3.6. Singapore 5G Core Market Outlook
8.3.6.1. Market Size & Forecast
8.3.6.1.1. By Value
8.3.6.2. Market Share & Forecast
8.3.6.2.1. By Component
8.3.6.2.2. By Deployment Mode
8.3.6.2.3. By End User
8.3.6.2.4. By Network Functions
8.3.7. Malaysia 5G Core Market Outlook
8.3.7.1. Market Size & Forecast
8.3.7.1.1. By Value
8.3.7.2. Market Share & Forecast
8.3.7.2.1. By Component
8.3.7.2.2. By Deployment Mode
8.3.7.2.3. By End User
8.3.7.2.4. By Network Functions

9. EUROPE 5G CORE MARKET OUTLOOK

9.1. Market Size & Forecast
9.1.1. By Value
9.2. Market Share & Forecast
9.2.1. By Component
9.2.2. By Deployment Mode
9.2.3. By End User
9.2.4. By Network Functions
9.2.5. By Country

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9.3. Europe: Country Analysis
9.3.1. Germany 5G Core Market Outlook
9.3.1.1. Market Size & Forecast
9.3.1.1.1. By Value
9.3.1.2. Market Share & Forecast
9.3.1.2.1. By Component
9.3.1.2.2. By Deployment Mode
9.3.1.2.3. By End User
9.3.1.2.4. By Network Functions
9.3.2. United Kingdom 5G Core Market Outlook
9.3.2.1. Market Size & Forecast
9.3.2.1.1. By Value
9.3.2.2. Market Share & Forecast
9.3.2.2.1. By Component
9.3.2.2.2. By Deployment Mode
9.3.2.2.3. By End User
9.3.2.2.4. By Network Functions
9.3.3. France 5G Core Market Outlook
9.3.3.1. Market Size & Forecast
9.3.3.1.1. By Value
9.3.3.2. Market Share & Forecast
9.3.3.2.1. By Component
9.3.3.2.2. By Deployment Mode
9.3.3.2.3. By End User
9.3.3.2.4. By Network Functions
9.3.4. Russia 5G Core Market Outlook
9.3.4.1. Market Size & Forecast
9.3.4.1.1. By Value
9.3.4.2. Market Share & Forecast
9.3.4.2.1. By Component
9.3.4.2.2. By Deployment Mode
9.3.4.2.3. By End User
9.3.4.2.4. By Network Functions
9.3.5. Spain 5G Core Market Outlook
9.3.5.1. Market Size & Forecast
9.3.5.1.1. By Value
9.3.5.2. Market Share & Forecast
9.3.5.2.1. By Component
9.3.5.2.2. By Deployment Mode

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9.3.5.2.3. By End User
9.3.5.2.4. By Network Functions
9.3.6. Belgium 5G Core Market Outlook
9.3.6.1. Market Size & Forecast
9.3.6.1.1. By Value
9.3.6.2. Market Share & Forecast
9.3.6.2.1. By Component
9.3.6.2.2. By Deployment Mode
9.3.6.2.3. By End User
9.3.6.2.4. By Network Functions
9.3.7. Italy 5G Core Market Outlook
9.3.7.1. Market Size & Forecast
9.3.7.1.1. By Value
9.3.7.2. Market Share & Forecast
9.3.7.2.1. By Component
9.3.7.2.2. By Deployment Mode
9.3.7.2.3. By End User
9.3.7.2.4. By Network Functions

10. SOUTH AMERICA 5G CORE MARKET OUTLOOK

10.1. Market Size & Forecast
10.1.1. By Value
10.2. Market Share & Forecast
10.2.1. By Component
10.2.2. By Deployment Mode
10.2.3. By End User
10.2.4. By Network Functions
10.2.5. By Country
10.3. South America: Country Analysis
10.3.1. Brazil 5G Core Market Outlook
10.3.1.1. Market Size & Forecast
10.3.1.1.1. By Value
10.3.1.2. Market Share & Forecast
10.3.1.2.1. By Component
10.3.1.2.2. By Deployment Mode
10.3.1.2.3. By End User
10.3.1.2.4. By Network Functions
10.3.2. Argentina 5G Core Market Outlook

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10.3.2.1. Market Size & Forecast
10.3.2.1.1. By Value
10.3.2.2. Market Share & Forecast
10.3.2.2.1. By Component
10.3.2.2.2. By Deployment Mode
10.3.2.2.3. By End User
10.3.2.2.4. By Network Functions
10.3.3. Colombia 5G Core Market Outlook
10.3.3.1. Market Size & Forecast
10.3.3.1.1. By Value
10.3.3.2. Market Share & Forecast
10.3.3.2.1. By Component
10.3.3.2.2. By Deployment Mode
10.3.3.2.3. By End User
10.3.3.2.4. By Network Functions
10.3.4. Peru 5G Core Market Outlook
10.3.4.1. Market Size & Forecast
10.3.4.1.1. By Value
10.3.4.2. Market Share & Forecast
10.3.4.2.1. By Component
10.3.4.2.2. By Deployment Mode
10.3.4.2.3. By End User
10.3.4.2.4. By Network Functions
10.3.5. Chile 5G Core Market Outlook
10.3.5.1. Market Size & Forecast
10.3.5.1.1. By Value
10.3.5.2. Market Share & Forecast
10.3.5.2.1. By Component
10.3.5.2.2. By Deployment Mode
10.3.5.2.3. By End User
10.3.5.2.4. By Network Functions

11. MIDDLE EAST & AFRICA 5G CORE MARKET OUTLOOK

11.1. Market Size & Forecast
11.1.1. By Value
11.2. Market Share & Forecast
11.2.1. By Component
11.2.2. By Deployment Mode

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11.2.3. By End User
11.2.4. By Network Functions
11.2.5. By Country
11.3. Middle East & Africa: Country Analysis
11.3.1. Saudi Arabia 5G Core Market Outlook
11.3.1.1. Market Size & Forecast
11.3.1.1.1. By Value
11.3.1.2. Market Share & Forecast
11.3.1.2.1. By Component
11.3.1.2.2. By Deployment Mode
11.3.1.2.3. By End User
11.3.1.2.4. By Network Functions
11.3.2. South Africa 5G Core Market Outlook
11.3.2.1. Market Size & Forecast
11.3.2.1.1. By Value
11.3.2.2. Market Share & Forecast
11.3.2.2.1. By Component
11.3.2.2.2. By Deployment Mode
11.3.2.2.3. By End User
11.3.2.2.4. By Network Functions
11.3.3. UAE 5G Core Market Outlook
11.3.3.1. Market Size & Forecast
11.3.3.1.1. By Value
11.3.3.2. Market Share & Forecast
11.3.3.2.1. By Component
11.3.3.2.2. By Deployment Mode
11.3.3.2.3. By End User
11.3.3.2.4. By Network Functions
11.3.4. Israel 5G Core Market Outlook
11.3.4.1. Market Size & Forecast
11.3.4.1.1. By Value
11.3.4.2. Market Share & Forecast
11.3.4.2.1. By Component
11.3.4.2.2. By Deployment Mode
11.3.4.2.3. By End User
11.3.4.2.4. By Network Functions
11.3.5. Turkey 5G Core Market Outlook
11.3.5.1. Market Size & Forecast
11.3.5.1.1. By Value

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11.3.5.2. Market Share & Forecast
11.3.5.2.1. By Component
11.3.5.2.2. By Deployment Mode
11.3.5.2.3. By End User
11.3.5.2.4. By Network Functions

12. MARKET DYNAMICS

12.1. Drivers
12.2. Challenges

13. MARKET TRENDS & DEVELOPMENTS

14. COMPANY PROFILES

14.1. Affirmed Networks, Inc.
14.1.1. Business Overview
14.1.2. Key Revenue and Financials
14.1.3. Recent Developments
14.1.4. Key Personnel
14.1.5. Key Product/Services
14.2. NEC Corporation
14.2.1. Business Overview
14.2.2. Key Revenue and Financials
14.2.3. Recent Developments
14.2.4. Key Personnel
14.2.5. Key Product/Services
14.3. Cisco Systems Inc.
14.3.1. Business Overview
14.3.2. Key Revenue and Financials
14.3.3. Recent Developments
14.3.4. Key Personnel
14.3.5. Key Product/Services
14.4. Samsung Electronics Co. Ltd.
14.4.1. Business Overview
14.4.2. Key Revenue and Financials
14.4.3. Recent Developments
14.4.4. Key Personnel
14.4.5. Key Product/Services

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14.5. Hewlett Packard Enterprise Development LP
14.5.1. Business Overview
14.5.2. Key Revenue and Financials
14.5.3. Recent Developments
14.5.4. Key Personnel
14.5.5. Key Product/Services
14.6. Nokia Corporation
14.6.1. Business Overview
14.6.2. Key Revenue and Financials
14.6.3. Recent Developments
14.6.4. Key Personnel
14.6.5. Key Product/Services
14.7. Oracle Corporation
14.7.1. Business Overview
14.7.2. Key Revenue and Financials
14.7.3. Recent Developments
14.7.4. Key Personnel
14.7.5. Key Product/Services
14.8. Telefonaktiebolaget LM Ericsson
14.8.1. Business Overview
14.8.2. Key Revenue and Financials
14.8.3. Recent Developments
14.8.4. Key Personnel
14.8.5. Key Product/Services
14.9. Huawei Technologies Co. Ltd
14.9.1. Business Overview
14.9.2. Key Revenue and Financials
14.9.3. Recent Developments
14.9.4. Key Personnel
14.9.5. Key Product/Services
14.10. ZTE Corporation
14.10.1. Business Overview
14.10.2. Key Revenue and Financials
14.10.3. Recent Developments
14.10.4. Key Personnel
14.10.5. Key Product/Services

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