

Global 5G Infrastructure Market

Forecast to 2026 and COVID 19 Impact
By Communication Infrastructure (Radio Access Network (RAN), Core Network and Transport Network), Network Architecture (Non-Standalone and Standalone), Operating Frequency and Region

January 2021

Table of Contents

1	Introduction
1.1	Objectives of the Study & Summary
1.2	Research Methodology
2	Executive Summary
3	Industry Overview
3.1	Impact of Covid-19
3.2	Impact of 5G Connectivity on Industrial Sectors
3.3	IT Spending Outlook
3.4	Industry Growth Drivers & Challenges
4	Market & Competition Landscape
4.1	Global Market Composition
4.2	Key Players Ranking
4.3	5G Use Cases
4.4	Key Market Developments
5	5G Infrastructure Market Assessment, 2019-2026, USD Mn
5.1	Market Assessment by Communication Infrastructure
5.1.1	5G Communication Infrastructure Types
5.1.2	Market Overview by Communication Infrastructure Types

Table of Contents

5.1.3 **Market Overview of Radio Access Network (RAN)**

5.1.4 **Market Overview of Core Network**

5.1.5 **Market Overview of Transport Network**

5.1.6 **Key Deployments and Future Plans**

5.2 **Market Assessment by Network Architecture**

5.2.1 **5G Network Architecture Types**

5.2.2 **Market Overview by Network Architecture Type**

5.2.3 **Market Overview 5G Non-Standalone and 5G Standalone Network Architecture**

5.2.4 **Key Deployments and Future Plans**

5.3 **Market Assessment by Operating Frequency**

5.3.1 **5G Operating Frequency Types**

5.3.2 **Key Geography and Deployments**

5.3.3 **Market Overview**

5.3.4 **Overview Sub 6Ghz Frequency and mmWave Frequency**

5.3.4 **Key Deployments and Future Plans**

5.4 **Market Assessment by Region**

5.4.1 **Key Geographies**

5.4.2 **Global Market Overview**

Table of Contents

5.4.3 Market Overview – North America and Latin America

5.4.4 Market Overview – Europe

5.4.5 Market Overview – Asia-Pacific

5.4.6 Market Overview – Rest of the World

6 Supplier Profiles

6.1 Ericsson

6.1.1 Company Overview

6.1.2 Key Development

6.2 Huawei

6.3 ZTE Corporation

6.4 Nokia Networks

6.5 Samsung

6.6 NEC Corporation

6.7 Cisco Systems Inc.

6.8 CommScope

6.9 Comba Telecom Systems

6.10 Alpha Networks

7 Appendix

Objective & Scope

Objective: To assess the Global 5G Infrastructure market, identify the key growth opportunities, and understand the competitive scenario

Scope coverage

Focus Communication Infrastructure

- Radio Access Network (RAN)
- Core Network
- Transport Network

Focus Network Architecture

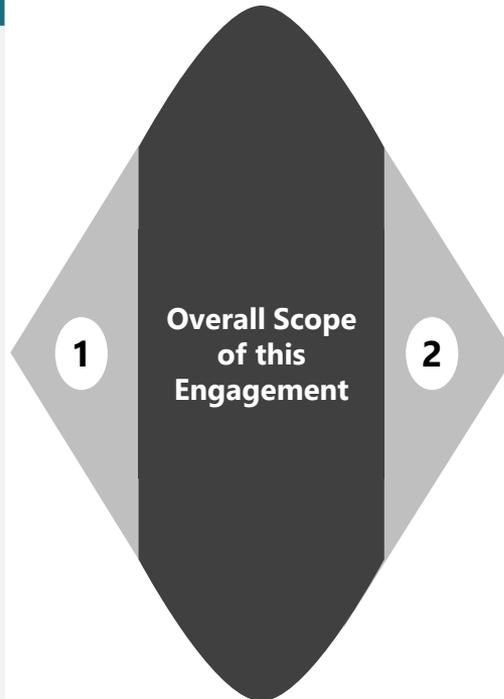
- 5G Non-Standalone
- 5G Standalone

Focus Operating Frequency

- Sub 6Ghz Frequency
- mmWave Frequency

Focus Geography

- Global
 - Americas (North America and South America)
 - Europe
 - Asia-Pacific
 - Rest of the World (Middle East & Africa)



Scope of study

- Overview of the global 5G infrastructure market
- Detailed assessment of the key communication infrastructure for 5G – current state & outlook
- Current and forecast market for 5G infrastructure (2019 – 2026)
- Segmentation of the market by communication infrastructure, network architecture, operating frequency, and region
- Key trends analysis to understand the potential impact on the 5G infrastructure market
- Analysis of the key drivers and challenges impacting the market growth
- Competitive landscape within the global 5G infrastructure market
- Profiles of the key 5G infrastructure vendors like Ericsson, Huawei, Nokia, ZTE, Samsung

Research Methodology

- Preliminary data was gathered using extensive secondary research and information from proprietary databases
- Insights on the market drivers and challenges, and suppliers, their solutions, key developments and so on were developed



Primary Research

- Analyzed data through qualitative research techniques and derived key insights to streamline the study flow
- Data is presented in a module based approach

Secondary Research



- Insights were developed through primary interviews with industry stakeholders, related to 5G Infrastructure market and key suppliers
- The stakeholders included senior personnel from 5G Infrastructure vendors, end-user company procurement personnel across different sectors and industry experts
- This data was triangulated with the insights developed through secondary research

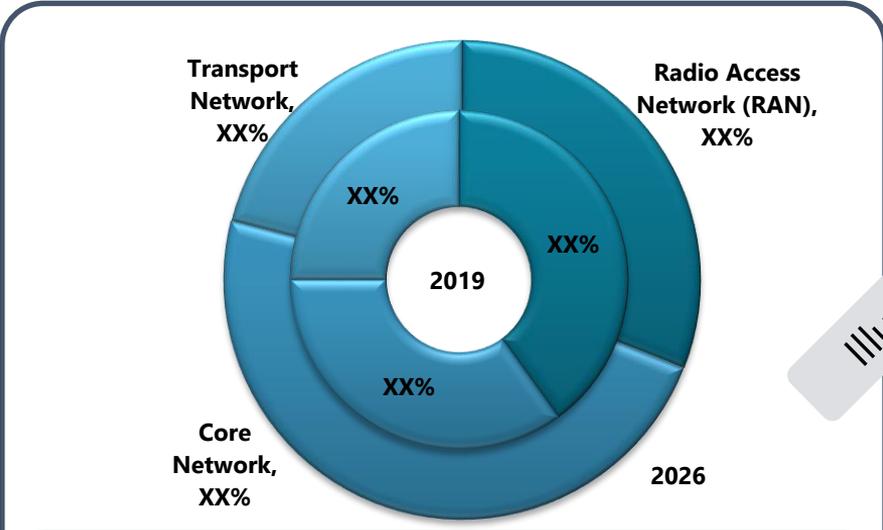
Synthesis of findings



5G core network is expected to register fastest growth rate as core network is heart of 5G network that helps to implement application-specific network functions by software...

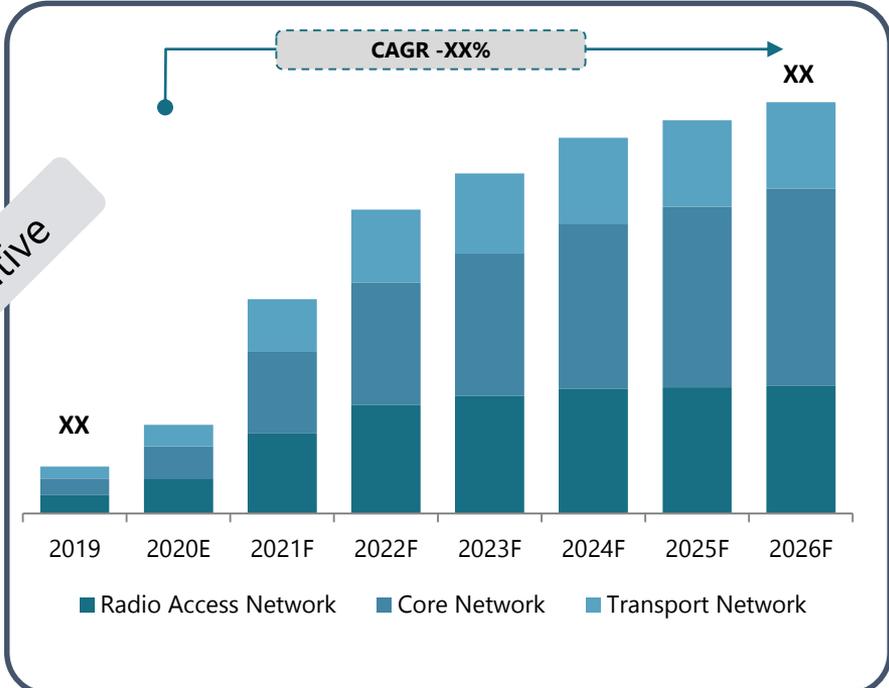
5G Infrastructure Market By Communication Infrastructure

Global 5G Infrastructure Market Share by Communication Infrastructure (2019 and 2026)



5G radio access network infrastructure accounted for largest market share in 2019. 5G core network infrastructure market size in terms of value is expected to grow at a CAGR of XX% between 2019 and 2026

Global 5G Infrastructure Market Size by Communication Infrastructure (2019-2026) – USD Bn

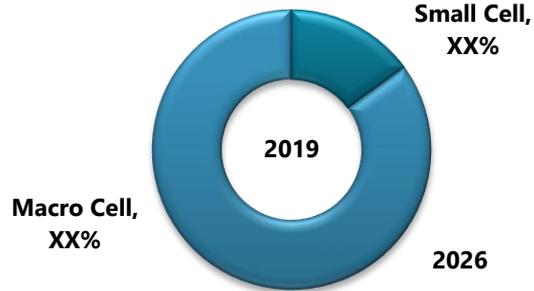


Illustrative

Small cell will grow at highest CAGR due to its massive deployment for IOT and M2M applications...

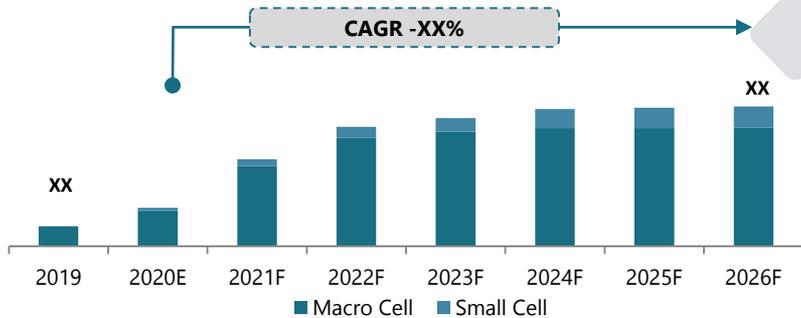
Overview of Radio Access Network (RAN)

Radio Access Network Segment Market Share (2019 and 2026)



- Macro cell accounted for the largest market share with a value of USD XX Bn in the RAN segment in 2019. It is expected to continue its dominance in the next five years
- Small cell network is expected to grow fastest among RAN segments at a CAGR of XX% between 2020 and 2026. After 2020-21 the adoption of small cell network for mmWave is likely to increase exponentially as operators are expected to massively deploy small cell solutions for Internet of Things (IoT) and Machine-to-Machine (M2M) communications
- Growing need for network densification for achieving higher network capacity and speed is expected to drive the 5G small cell market

Radio Access Network Segment (2019-2026) – USD Bn



Illustrative

Key RAN Manufacturers



Nokia Networks

ZTE



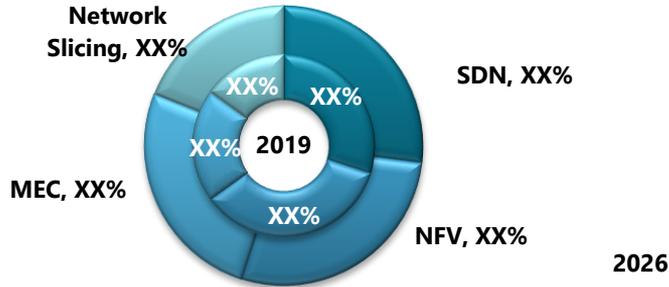
Qualcomm

NEC

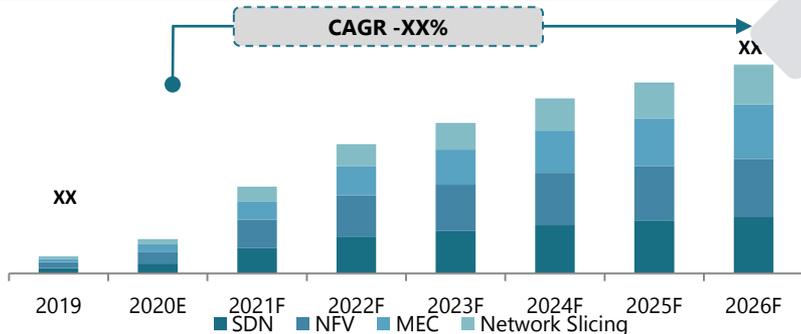
Growing need of ultra-low latency in applications like AR/VR, cloud gaming drives the MEC market...

Overview of Core Network

Core Network Segment Market Share (2019 and 2026)



Core Network Segment (2019-2026) – USD Bn



Illustrative

- Network-function virtualization (NFV) accounted for the largest market share in the core network segment with a value of USD XX Bn in 2019. NFV is a vital part of 5G core network as it helps to implement application-specific network functions by software. It also eliminates the costs associated with procurement and maintenance of application-specific network hardware and equipment
- CAPEX and OPEX saving for enterprises, and growing demand for consolidation of data centers and server virtualization are driving the 5G market

The MEC market is expected to grow quick among core network segments at a CAGR of XX% from 2020 and 2026, and is expected to reach USD XX Bn by 2026. The demand for ultra-low latency in applications such as connected/autonomous, enterprise AR/VR/MR, cloud gaming, and video analytics will be achieved by MEC implementation

Key Providers of Core Network



Nokia Networks

ZTE



COMMSCOPE®

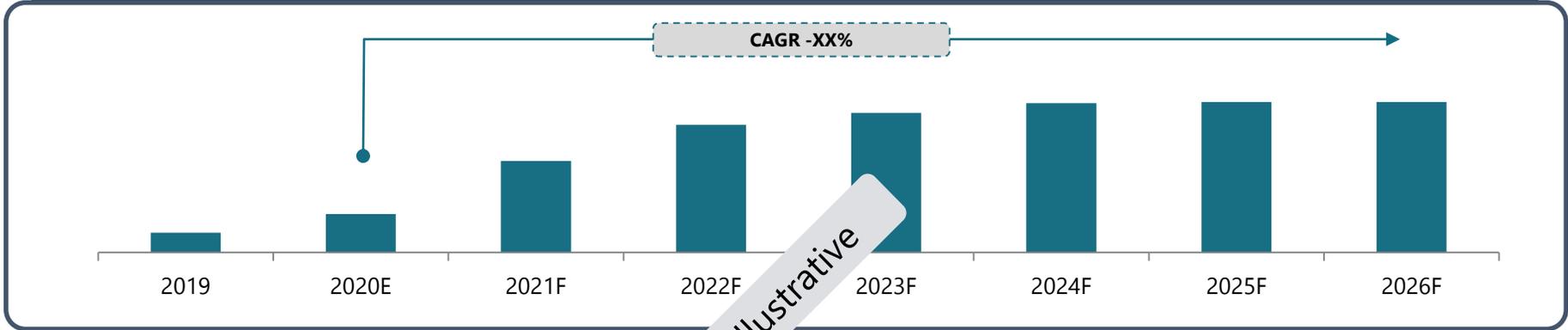


JUNIPER NETWORKS

Higher bandwidth requirements from the 5G use cases will drive IP based transport network market...

Overview of Transport Network

Transport Network Segment (2019 and 2026) – USD Bn



- Transport network market size was valued at USD XX Bn in 2019 and expected to reach USD XX Bn by 2026, growing at a CAGR of XX% from 2020 to 2026. Transport network consists of IP transport and optical transport that connect fronthaul, middlehaul, and backhaul of the 5G network with each other for transmission of data traffic
- IP/Ethernet based architecture is expected to unlock various potential 5G use cases that will require higher bandwidth and ultra-low latency network

Key Players providing Transport Network



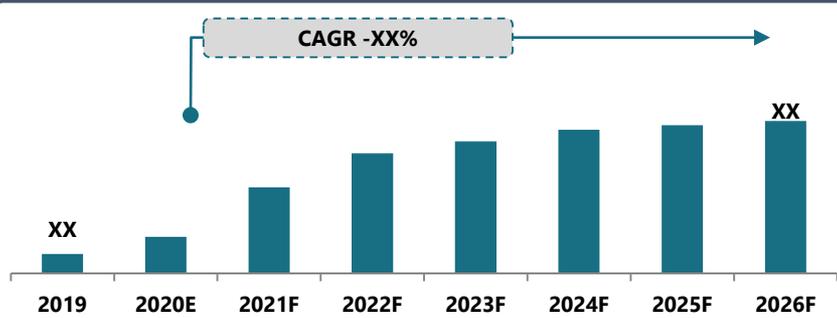
Nokia Networks



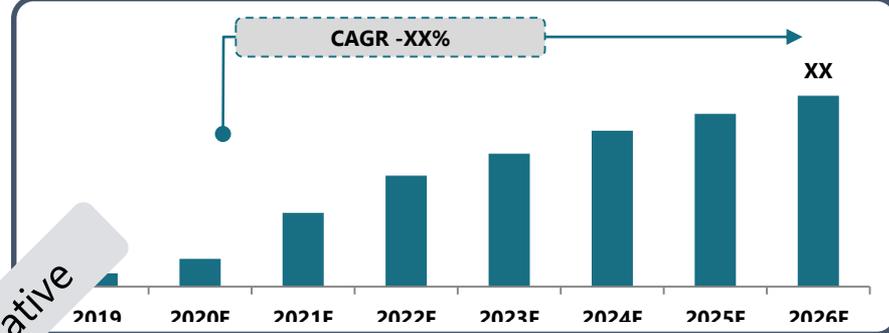
Investments on licensing and deploying of 24.25Ghz-25.9Ghz frequency network from the operators is driving the mmWave market...

Overview of Sub 6Ghz Frequency and mmWave Frequency

Sub-6Ghz Operating Frequency Segment (2019-2026) – USD Bn



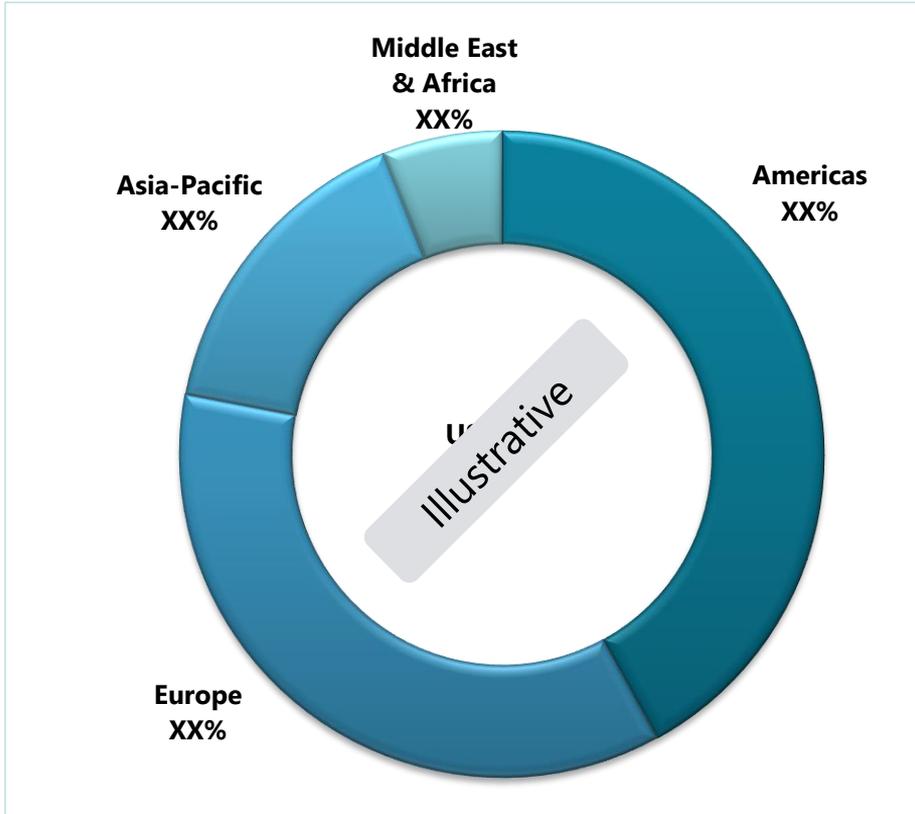
mmWave Operating Frequency Segment (2019-2026) – USD Bn



Illustrative

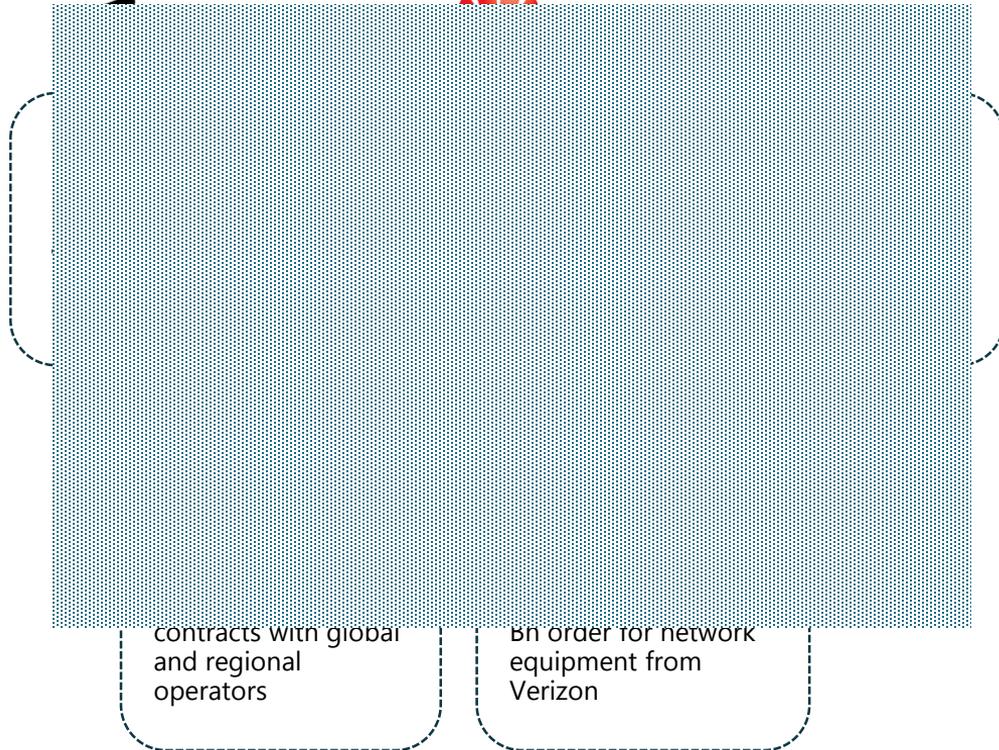
- Early stage deployments of 5G networks witnessed a roll out of sub-6GHz frequency band with 3.5GHz and 4.5GHz as mainstream spectrum, and lower bands of 600MHz, 700MHz, and 900MHz coupled with MIMO technology to meet higher coverage demand from massive IoT and critical communications
- Growing demand for higher bandwidth, ultra low latency and high speed network from critical applications such as connected cars, industrial automation and Telesurgery are likely to drive the mmWave 5G market
- As of June 2020, 24.25Ghz-25.9Ghz 5G mmWave was the most-licensed/deployed spectrum range with 123 operators in 42 countries/territories
- According to Global Mobile Suppliers Association (GSA), 97 CSPs in 17 countries/territories hold licenses for public operation of 5G networks using mmWave spectrum
- In 2019, North America, especially the U.S. stood global leader in mmWave deployments by three major operators AT&T, Verizon, and T-Mobile along with Ericsson and Nokia Networks as leading infrastructure vendors

Aggressive investment towards deployment of 5G infrastructure from operators and governments of China, Japan, and South Korea is attributing to the growth in Asian Market...

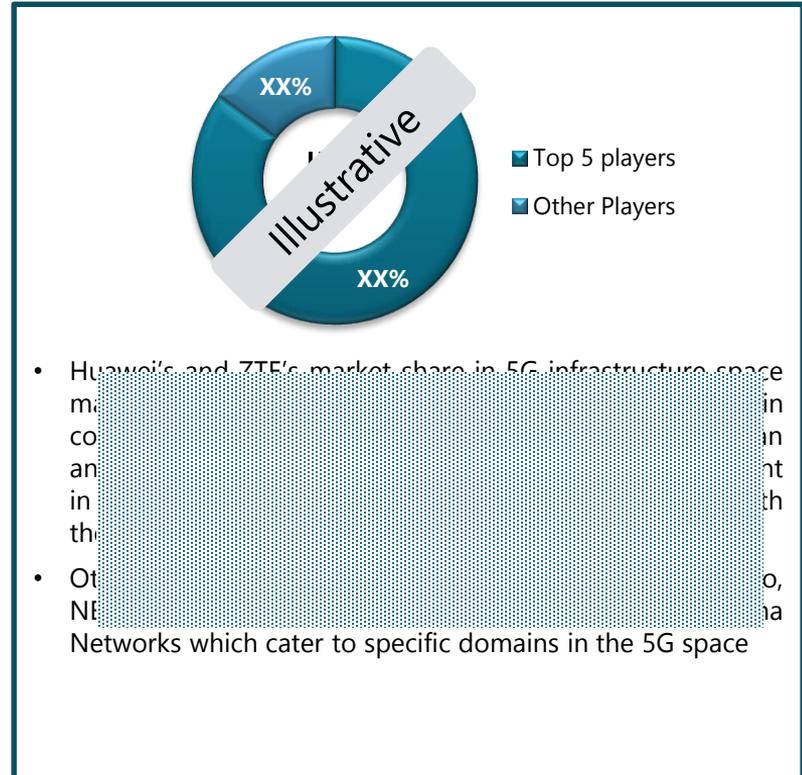


- North America dominated the 5G infrastructure market with the U.S. being the largest in 2019. The U.S. market is further expected to grow in the coming years, with a CAGR of XX% between 2020 and 2026.
- AT&T, Verizon, and T-Mobile are the leading players in the U.S. market. These companies are expected to invest in the 5G infrastructure market.
- Asia-Pacific is expected to be a major market for 5G infrastructure, with a CAGR of XX% between 2020 and 2026. The U.S. market is expected to be followed by the Asia-Pacific region.
- China is expected to be a major market for 5G infrastructure, with a CAGR of XX% between 2020 and 2026. China is expected to invest in the 5G infrastructure market.
- Germany is expected to be a major market for 5G infrastructure, with a CAGR of XX% between 2020 and 2026. While the U.S. market is expected to grow fastest among the countries in Europe at a CAGR of XX% between 2020 and 2026.

Market Ranking for Key Players



Market Share for Key Players

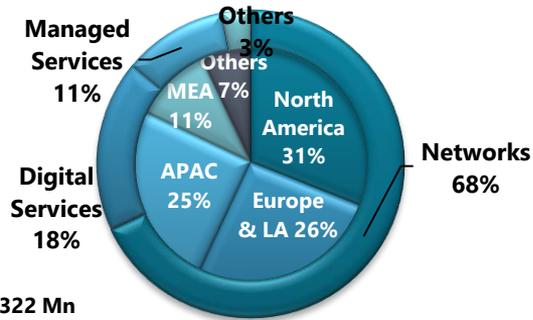


6.1 Telefonaktiebolaget LM Ericsson (Ericsson)

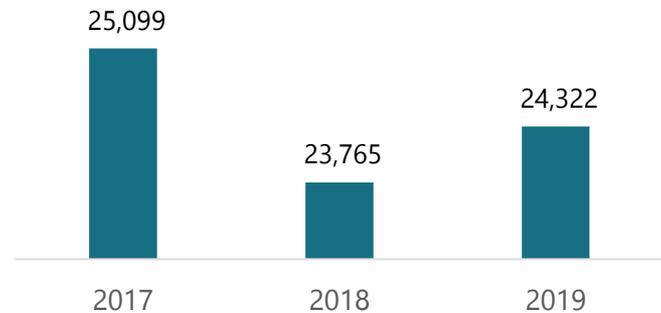
Company Overview

Overview

Ericsson Revenue (Mn), 2019 Key segments



USD 24,322 Mn



Note: Financial Year for Ericsson ends on 31st Dec 2019

- Ericsson focuses on development of new products and services, and generation of new revenue streams. The company's revenue is primarily derived from its core business of providing network infrastructure and services to mobile operators. The company's revenue is primarily derived from its core business of providing network infrastructure and services to mobile operators.
- Ericsson's revenue is primarily derived from its core business of providing network infrastructure and services to mobile operators. The company's revenue is primarily derived from its core business of providing network infrastructure and services to mobile operators.
- Ericsson's revenue is primarily derived from its core business of providing network infrastructure and services to mobile operators. The company's revenue is primarily derived from its core business of providing network infrastructure and services to mobile operators.
- Ericsson's revenue is primarily derived from its core business of providing network infrastructure and services to mobile operators. The company's revenue is primarily derived from its core business of providing network infrastructure and services to mobile operators.
- The company's revenue is primarily derived from its core business of providing network infrastructure and services to mobile operators. The company's revenue is primarily derived from its core business of providing network infrastructure and services to mobile operators.
- Ericsson's revenue is primarily derived from its core business of providing network infrastructure and services to mobile operators. The company's revenue is primarily derived from its core business of providing network infrastructure and services to mobile operators.
- The company's revenue is primarily derived from its core business of providing network infrastructure and services to mobile operators. The company's revenue is primarily derived from its core business of providing network infrastructure and services to mobile operators.

6.1 Telefonaktiebolaget LM Ericsson (Ericsson)

Key Developments

Key Developments by the Company

Ericsson is one of the giants in the 5G infrastructure ecosystem. It currently holds 100 commercial 5G agreements/contracts with unique operators, and supports 24 live 5G networks worldwide. With agreements and contracts, the company focuses to accelerate the adoption of 5G in many countries, and increase its global presence in the 5G wireless infrastructure market. Alongside, with acquisition strategy the company is focused on expanding network product portfolio

Acquisition Activity

Acquisition of Cradlepoint

- In November 2020, Ericsson completed its acquisition of Cradlepoint, the US-based market leader in Wireless WAN Edge 4G and 5G solutions for the enterprise market. The investment is key to Ericsson's strategy of capturing market share in the expanding 5G enterprise space

Acquisition of Kathrein

- In October 2019, Ericsson acquired Kathrein, a leading provider of antenna and filter technologies company in Germany. The acquisition is expected to expand Eriksson's radio system portfolio with new products, and strengthen its antenna in-house competences and capabilities in the 5G space

Recent Agreement or Contracts

Agreement with Ooredoo Group

- In January 2021, Ericsson and Ooredoo Group signed a global frame agreement for the supply of 5G radio, core and transport products and solutions, as well as related implementation and integration services. The agreement covers all 10 of the Group's operating companies in Qatar, Indonesia, Algeria, Iraq, Kuwait, Oman, Palestine, Tunisia, Myanmar and Maldives

Contract with KDDI

- In December 2020, Ericsson has been selected by KDDI to deploy cloud-native dual-mode 5G Core in its 5G Standalone network in Japan. The solution, consisting of Ericsson Cloud Packet Core, will support KDDI's focus on digital transformation of corporate customers

Get in touch with us

Contact Details:

Datamatics RIBA Sales

APAC: +91-22-6671-2001

EMEA: +44-20-3026-5330

USA: +1-571-281-0707

Email: marketing@datamaticsbpm.com

Corporate Office & Mailing Address:

Plot No. B5

Part B Cross lane

MIDC, Andheri (East)

Mumbai, 400 093, India

Phone: +91-22-6671-2001

Thank You

IND: +91 22 6671 2001

US: +1 571 281 0707



in

You
Tube



EU: +44 2030 265 330



globalsales@datamaticsbpm.com



G+



Datamatics
Business Solutions

marketing@datamaticsbpm.com