Company Spotlight

Top 15 Companies In The Global 5G Infrastructure Market 2025

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As per latest study by Expert Market Research, the top 5G infrastructure companies are Huawei Technologies Co. Ltd., Samsung Electronics Co. Ltd, Nokia Corporation, Qualcomm Technologies, Inc., LG Electronics Inc., ZTE Corporation, Intel Corporation, Telefonaktiebolaget LM Ericsson, Oracle Corporation, Cisco Systems, Inc., AT&T Inc., NEC Corporation, Dell Technologies, Microsoft Corporation, HRMavenir Systems, Inc

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5G Infrastructure Market Report and Forecast 2025-2034

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As per the analysis by Expert Market Research, the global 5G infrastructure market attained a value of nearly **USD 11.4 billion in 2024**. The market is further expected to grow at a **CAGR of 44.7%** during the forecast period of 2025-2034 to reach a value of **USD 318.2 billion by 2034**.

Radio Access Network (RAN), backhaul and transport, and the core network, make up the majority of the 5G infrastructure. In the backhaul and transport network, microwave or fibre optic antennas may be used. It is anticipated that the growing demand for higher bandwidth connectivity with low latency for a variety of mission-critical applications, such as drone connectivity and vehicle-to-everything (V2X), will propel the growth of the 5G infrastructure industry.

The user experience for a number of use cases, including Ultra-high Definition (UHD) video, Virtual Reality (VR) and Augmented Reality (AR) gaming, and seamless video calling, is anticipated to be improved by the 5G technology market. Several industrial facilities are focusing on technology changes to boost their total productivity, operational efficiency, and cost-reductioncutting in an effort to survive in a highly competitive industry.

The demand for the 5G IoT market is anticipated to be driven by the growing usage of LPWAN, 5G, Long Range Wide Area Network (LoRaWAN), Internet Protocol version 6 (IPv6), and wireless sensor networks, which will support market expansion of

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Additionally, it is easier to employexpansion of the 5G testing equipment market is also expected due to the for the deployment of 5G technology due to the supported by the increasing availability of huge data centres. High-speed internet services are becoming more necessary due to the growing work-from-home culture in the post-COVID era, which will further accelerate industry growth over the forecast period.

Asia Pacific accounts for a significant share in the global 5G infrastructure industry and is anticipated to remain dominant in the forecast period as well. This growth can be attributed to the aggressive deployment of new 5G radio infrastructure by key communication service providers. The growing emphasis on adopting sub-6 GHz 5G network market networks by China, South Korea, and Japan is accelerating the continent's expansion even more in the 5G network market.

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Top 15 Global 5G Infrastructure Companies:

1. Huawei Technologies Co. Ltd.

Headquarters:	Guangdong, China
Establishment:	1987
Website:	https://www.huawei.com/en/

Huawei Technologies Co., Ltd. offers telecommunications and networking products. The corporation conducts research and develops servers, security, storage, and other networking solutions in addition to internet access and transmission networks. Huawei's operations span across carrier networks, enterprise business, cloud computing, and consumer electronics, with a strong focus on research and innovation. Business consultancy, network integration, assurance, managed services, learning, international delivery, and other services are also provided by Huawei Technologies. Huawei is renowned for its wide range of products, including smartphones, tablets, laptops, 5G infrastructure, data centres, routers, and artificial intelligence (AI) solutions. The company invests heavily in R&D, with over half of its workforce involved in research initiatives and several global R&D centres. Despite facing regulatory challenges and restrictions in certain markets, Huawei continues to expand its footprint across Asia, Africa, the Middle East, and parts of Europe. The company has played a pivotal role in driving digital transformation through its advanced telecom infrastructure and enterprise solutions.

2. Samsung Electronics Co. Ltd

Headquarters:	Suwon-si, South Korea
Establishment:	1969
Website:	https://www.samsung.com/us/

A Samsung Group company, Samsung Electronics Co Ltd (Samsung) is a producer of information technology, device solutions, consumer electronics, and mobile communications. The company's product line includes digital cameras, printers, monitors, computers, network systems, refrigerators, washing machines, air conditioners, medical devices, and televisions (TV). The company is a dominant player in the smartphone market with its Galaxy series and holds a leading position in the semiconductor industry, particularly in DRAM and NAND flash memory. Samsung has also made significant strides in 5G infrastructure, IoT devices, and AI-powered solutions, supporting its vision of connected living. With a strong focus on research and development, Samsung operates multiple R&D centres globally, driving advancements in next-generation technologies such as foldable displays, quantum-dot TVs, and automotive electronics. Sustainability and corporate responsibility are central to its operations, with initiatives aimed at reducing carbon emissions and promoting recycling. Samsung Electronics serves a global customer base and maintains a robust presence in key markets across Asia, Europe, and the Americas.

3. Nokia Corporation

Headquarters:	Espoo, Finland

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Establishment:	1865
Website:	https://www.nokia.com/

A communications and information technology company, Nokia Corp. (Nokia) specialises in network infrastructure and cutting-edge technologies. It provides services for 5G, IoT, IP routing, fixed networks, subscriber data management, mobile phones, Wi-Fi systems, and network construction and moderniszation. Nokia provides a wide range of products and services including 5G infrastructure, IP and optical networking, cloud solutions, and software for communication service providers and enterprises. Nokia operates through key business segments such as Mobile Networks, Network Infrastructure, Cloud and Network Services, and Nokia Technologies. It is recognised for its strong focus on innovation, with extensive investments in research and development, particularly in 5G, artificial intelligence, and digital transformation. The company is committed to sustainability, promoting energy efficiency and digital inclusion through its operations and solutions. With customers in over 130 countries, Nokia plays a vital role in enabling digital ecosystems and improving connectivity worldwide. It has also collaborated with major global operators, governments, and enterprises to build scalable, secure, and future-ready networks.

4. Qualcomm Technologies, Inc.

Headquarters:	California, United States
Establishment:	1985
Website:	https://www.qualcomm.com/home

Qualcomm creates, produces, and sells equipment and services for digital wireless telecommunications. It is one of the major wireless technology innovators in the world and an impetus behind the creation, introduction, and growth of 5G. Qualcomm Technologies plays a vital role in powering smartphones, tablets, IoT devices, automotive systems, and network infrastructure through its Snapdragon processors and modem solutions. With a strong focus on research and development, Qualcomm Technologies is at the forefront of next-generation wireless technologies, including artificial intelligence (AI), edge computing, and automotive connectivity. Its Snapdragon platforms enable high-performance, energy-efficient processing across mobile and embedded devices, while its 5G modems and RF systems support fast and reliable wireless communication. The company collaborates with a vast ecosystem of manufacturers, mobile operators, and software developers to deliver cutting-edge experiences across industries. In the automotive sector, Qualcomm Technologies provides solutions for in-vehicle connectivity, infotainment, and autonomous driving support. In IoT, it offers scalable platforms for smart homes, wearables, and industrial applications.

5. LG Electronics Inc.

Headquarters:	Seoul, South Korea
Establishment:	1958
Website:	https://www.lg.com/global

LG Electronics Inc. manufactures and markets digital display equipment and home appliances. The company manufactures and sells telecommunications devices such as smart phones and tablets, in addition to flat panel televisions, A/V appliances, refrigerators, washing machines, and air conditioners. LG 5G phones can deliver search results and execute other tasks more quickly than smartphones that use the 4G LTE networks since the 5G network makes use of modern networking technology. The company maintains a strong international presence with manufacturing facilities, R&D centres, and sales operations in over 100 countries. In recent years, LG has focused on enhancing its smart home ecosystem, investing heavily in artificial intelligence and Internet of Things (IoT) technologies. It also plays a prominent role in the electric vehicle components market through its LG Vehicle Component Solutions division. The company continues to drive growth through strategic partnerships, acquisitions, and a customer-centric innovation strategy. LG's dedication to quality and technological excellence keeps it at the forefront of the global electronics and appliances industry.

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6. ZTE Corporation

Headquarters:	Shenzhen, China
Establishment:	1985
Website:	https://www.zte.com.cn/

ZTE Corporation is the world's foremost supplier of information and communication technology solutions in the world. The company provides a wide range of products and services, including wireless, wireline, devices, and professional telecom solutions. ZTE plays a major role in building next-generation networks and is a key contributor to the development and deployment of 5G technology worldwide. With operations in over 160 countries, ZTE serves telecom operators, governments, and enterprise clients, offering end-to-end solutions that enable digital transformation. Its strong research and development capabilities are supported by over 30 R&D centres globally, allowing ZTE to stay at the forefront of innovation in areas like cloud computing, artificial intelligence, big data, and network security. By continuously investing in advanced technologies and maintaining strategic partnerships, ZTE aims to enhance connectivity, improve user experience, and drive digital innovation. Its dedication to innovation, customer satisfaction, and global collaboration makes ZTE a key player in the global ICT ecosystem.

7. Intel Corporation

Headquarters:	California, United States
Establishment:	1968
Website:	https://www.intel.com/

Intel is a market leader, developing technology that transforms the world and improves people's lives. The advent of the intelligent edge, the transformation of 5G networks, and artificial intelligence (AI), are three major technological turning points that will collectively influence the direction of technology. Intel’s product portfolio includes central processing units (CPUs), graphics processing units (GPUs), chipsets, memory, storage, and network interface controllers. It also focuses on artificial intelligence (AI), autonomous driving technologies through Mobileye, and Internet of Things (IoT) solutions. With the launch of advanced processor families like Intel Core, Xeon, and Atom, the company continues to lead in innovation and performance. In recent years, Intel has increased its investment in foundry services and manufacturing capabilities to regain leadership in chip production. The company aims to deliver cutting-edge semiconductor technologies while ensuring security, performance, and sustainability. It serves a wide range of industries, including consumer electronics, automotive, healthcare, and industrial automation.

8. Telefonaktiebolaget LM Ericsson

Headquarters:	Stockholm, Sweden
Establishment:	1876
Website:	https://www.ericsson.com/en

Telefonaktiebolaget LM Ericsson (Ericsson) is a supplier of integrated telecommunications technology and services. In the areas of mobility, internet, and cloud, it provides services, software, and infrastructure that allow telecom carriers and other enterprises to increase operational efficiency. The company also offers products and services for Along with networks, digital services, managed services, and emerging businesses, the corporation also provides its goods and services in these areas. The company is a major contributor to the development and rollout of 5G networks, offering a complete portfolio that includes radio access networks (RAN), core networks, cloud infrastructure, and network services. Ericsson supports mobile network operators in over 180 countries and serves billions of subscribers through its network equipment. Ericsson also leads in innovation, with a strong emphasis on research and development (R&D), maintaining numerous patents across wireless technologies. Its commitment to sustainability, digital transformation, and future-ready technologies has earned it recognition

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9. Oracle Corporation

Headquarters:	Texas, United States
Establishment:	1977
Website:	https://www.oracle.com/in/corporate/

Oracle provides its database management systems and cloud-engineering services and solutions through the four primary business sectors of the company: cloud and licence, hardware, and services. With best-in-class, micro-services-based network functions (NFs), flexible deployment choices, and support for 5G network slicing, Oracle's cloud native, 5G core enables operators to construct a solid and scalable core. Oracle serves a wide range of industries including finance, healthcare, telecommunications, and public sector organisations. Its cloud-based solutions are designed to increase operational efficiency, enhance security, and support digital transformation. The company has made significant investments in artificial intelligence, machine learning, and autonomous database technology, helping businesses automate processes and gain deeper insights. Over the years, Oracle has grown through strategic acquisitions, including companies like Sun Microsystems and Cerner Corporation, strengthening its position in cloud computing and healthcare IT. With a strong global presence and a commitment to innovation, Oracle continues to empower enterprises with scalable, secure, and intelligent technology solutions.

10. Cisco Systems, Inc.

Headquarters:	California, United States
Establishment:	1984
Website:	https://www.cisco.com/c/en_in/index.html

Cisco Systems, Inc., headquartered in California, is a global leader in networking, cybersecurity, and IT infrastructure. The company has grown into one of the most influential technology companies, providing a wide range of hardware, software, and services that power the internet and enterprise digital infrastructure. The company is best known for its high-performance routers, switches, wireless systems, and cybersecurity solutions, which support the seamless connectivity of businesses and governments worldwide. Cisco has played a vital role in shaping the modern internet and remains a key player in driving digital transformation. Its portfolio extends into cloud computing, data centre management, collaboration tools such as Webex, and advanced technologies including IoT, 5G, and artificial intelligence. Cisco’s software-defined networking (SDN) and automation platforms help organisations manage complex networks more efficiently and securely. The company follows a strong innovation strategy, investing heavily in research and development, and regularly acquiring technology firms to enhance its capabilities.

11. AT&T Inc.

Headquarters:	Texas, United States
Establishment:	1983
Website:	https://www.att.com/

AT&T Inc. provides media, technology, and telecommunications services. The company offers local and long-distance telephone services, managed networking, telecommunications products, wireless communications, data/broadband, and internet services, and wholesale services. In high traffic regions, including portions of more than 45 cities and more than 45 stadiums and venues, AT&T 5G+ employing millimetre wave spectrum offers unheard -of before speeds and performances. AT&T is widely recognised for its nationwide 5G network and advanced fibre internet services. It has played a key role in the digital transformation of businesses through secure connectivity and cloud-based solutions. The company also provides IP-based services, cybersecurity, and voice solutions for large enterprises and government entities. AT&T has consistently

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invested in network upgrades, including 5G expansion and edge computing capabilities, to meet growing data demands. Following the spin-off of WarnerMedia and its merger with Discovery, AT&T refocused its strategy on core telecommunications services, strengthening its financial structure and enhancing customer experience.

12. NEC Corporation

Headquarters:	Tokyo, Japan
Establishment:	1899
Website:	https://www.nec.com/

With more than 100 years of experience in technological innovation, NEC is a leader in the integration of network and IT technologies and offers solutions for enabling supporting individuals, organisations, and society. It offers business companies, communications service providers, and governmental organisations IT and network solutions, such as Internet of things (IoT) platforms, cloud computing, artificial intelligence (AI), and telecommunications hardware and software. NEC provides advanced IT solutions such as artificial intelligence (AI), biometric authentication, cloud computing, and cyber security, with a strong presence in smart city development, telecommunications, and government digitisation projects. It also supports communication service providers with next-generation wireless technologies, including 5G infrastructure. The company has expanded its global reach through strategic partnerships, mergers, and acquisitions, enabling it to provide tailored digital transformation services worldwide. With a commitment to social value creation, NEC integrates cutting-edge technology with sustainability goals, promoting a safer, more secure, and efficient society. Its innovative R&D capabilities keep it at the forefront of digital innovation.

13. Dell Technologies

Headquarters:	Texas, United States
Establishment:	1984
Website:	https://www.dell.com/

The company Dell Technologies Inc. (Dell) sells desktop computers, software, and accessories. The business creates, develops, produces, distributes, and supports the information technology infrastructure, including mobile devices, laptops, desktops, storage devices, workstations, software, and cloud solutions. It also designs, manufactures, develops, markets, and sells these products. Dell Technologies has developed software-driven storage advancements that offer intelligent insights, security, and increased productivity for Indian organisations. The company is especially known for its innovation in cloud computing, data centre infrastructure, and cybersecurity, with its brands like Dell, Dell EMC, VMware (prior to its spinoff), and Secureworks playing a key role in digital transformation. Dell Technologies places a strong emphasis on sustainability, responsible sourcing, and the circular economy, aiming to reduce its environmental impact through initiatives like recycling and energy-efficient products. Through its end-to-end IT solutions, Dell Technologies helps businesses modernise, automate, and transform their operations while staying secure and agile in a fast-changing digital world. With a global presence and a commitment to innovation, the company continues to be at the forefront of driving meaningful progress through technology.

14. Microsoft Corporation

Headquarters:	Washington, United States
Establishment:	1975
Website:	https://www.microsoft.com/en-in

Microsoft Corporation is a global technology leader known for its wide range of software, hardware, and cloud-based services. Over the years, Microsoft has diversified its portfolio to include cloud computing through Microsoft Azure, gaming via Xbox, enterprise solutions like Microsoft Dynamics, and collaboration tools such as Teams and SharePoint. The company has also

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mission— "to empower every person and every organisation on the planet to achieve more"—reflects its focus on inclusive innovation and customer-centric solutions. By integrating cutting-edge technologies, sustainability goals, and strong corporate governance, Microsoft continues to shape the digital future while maintaining a dominant position in the global technology landscape. Microsoft's acquisition strategy has played a key role in its growth, with notable purchases including LinkedIn, GitHub, and Activision Blizzard. These moves have expanded its reach in professional networking, open-source development, and gaming.

15. Mavenir Systems, Inc

Headquarters:	Texas, United States
Establishment:	2017
Website:	https://www.mavenir.com/

Mavenir Systems, Inc. is a telecommunications software company formed through the merger of Xura, Ranzure Networks, and Mitel Mobile, aiming to accelerate software network transformation for communications service providers (CSPs). The company specializes in developing end-to-end, cloud-native network solutions that support 5G and intelligent, automated, programmable networks. Their product portfolio encompasses mobile core software, including voice and video solutions; mobile access and edge software, such as OpenRAN vRAN and Multi-access Edge Computing (MEC); and mobile service software, offering monetization, unified communications, and digital engagement tools. Serving over 250 CSPs across more than 120 countries, Mavenir plays a significant role in the global telecommunications landscape. The company maintains a workforce of approximately 4,000 employees worldwide.

About The Author

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Ketan Gandhi is a market intelligence professional specializing in energy, automotive, FMCG, and construction sectors. His expertise spans market and price trend analysis, import-export dynamics, and supply chain evaluation to support strategic sourcing decisions. Through syndicated and custom research, he delivers competitive benchmarking insights and regional market assessments, employing rigorous data triangulation of primary and secondary sources to ensure reliable, actionable intelligence for businesses navigating complex industry landscapes.

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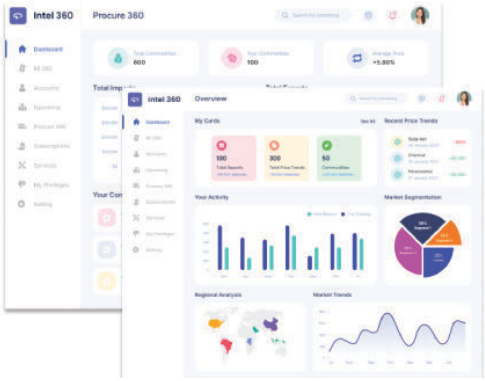

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