

## Report Information

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# 5G in Healthcare Market Research Report—Global Forecast till 2032

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## Description:

### Global 5G in Healthcare Market Overview

5G in Healthcare Market Size was valued at USD 25.3 billion in 2023. The 5G in healthcare market industry is projected to grow from USD 32.58 billion in 2024 to USD 239.2 billion by 2032, exhibiting a compound annual growth rate (CAGR) of 28.30% during the forecast period (2024 - 2032). The adoption of wearable medical devices powered by 5G technology, the ability of 5G technology to transfer enormous patient data files at light speed, and the availability of inexpensive sensors are the key market drivers propelling the industry's expansion.

5G in Healthcare Market Overview

### Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

The proliferation of wearable medical devices that are powered by 5G technology, the capacity of 5G technology to download massive patient data files at the speed of light, and the accessibility of inexpensive sensors are the primary market factors that are fueling the rise of the business.

ICTs have the ability to cut costs, improve the quality of care, promote the sharing of data, counsel patients and medical professionals on better treatment modalities, encourage a different user interface between patients and healthcare professionals, and reduce the amount of time that patients and healthcare professionals have to travel. In the wake of the pandemic, e-medicine and robot-assisted surgeries have become increasingly commonplace in response to worries regarding the risk of cross-contamination between patients and surgeons. A network is required for telehealth in order to deliver audio and video in real time that is of a high quality, and for the time being, a faster network, also known as 5G, is required.

In addition to this, a number of nations have recently moved to encourage the use of telemedicine by instituting reimbursement programs and regulatory frameworks. Patients would then be able to access these services from any location, including the convenience of their own homes, if the constraints on e-medicine imposed by the Medicare program were lifted. The governments are currently undertaking this effort. Before COVID-19, customers made infrequent use of telemedicine, but once the outbreak began, that changed dramatically. Alternative approaches to patient care in patients' homes are being investigated by legislators, insurers, and health care organizations in an effort to curb the spread of infectious diseases. The necessity to improve the efficiency of the delivery of telemedicine services has been the primary impetus behind the push for 5G.

**June 2023,** Apollo Multispeciality Hospitals in India debuted a 5G-connected ambulance with the intention of providing patients in urgent care circumstances with superior medical attention. The 5G-connected ambulance features the most up-to-date medical technology, including patient monitoring software and telemetry devices that send the patient's health data to the hospital in a timely manner. The ambulance was created specifically to meet the needs of the customer. In addition to that, the ambulance is fitted with onboard cameras that are linked to a fifth-generation network that is both incredibly quick and incredibly low-latency. The technology that drives the ambulance comes from a company called HealthNet Global Limited.

### 5G in Healthcare Market Trends

#### Growing Acceptance of Robotic Surgery and E-Medicine Drives Market Growth

ICTs have the potential to lower costs, improve care quality, facilitate data sharing, counsel patients and medical professionals on better treatment modalities, encourage a different user interface with patients and healthcare professionals, and reduce travel time. Since the pandemic, e-medicine and robot-assisted procedures are also frequently employed due to concerns about surgeons and patient cross-contamination. In order to provide real-time, high-quality audio and video, telehealth requires a network, and for now, a speedier network, or 5G, is required. In light of this, Ericsson stated in its research that it anticipates a revenue opportunity of USD 100,000 million by 2026 for service providers addressing the transformation of medical care with 5G. Remote monitoring, virtual remote

clinics, mHealth, and robotic procedures can all generate the anticipated revenue.

Additionally, many countries have begun promoting telemedicine by introducing reimbursement plans and regulatory frameworks. For instance, the American government is working to lift the Medicare program's restrictions on e-medicine, which would enable patients to receive such services from any location from the comfort of their homes. Before COVID-19, the U.S. used telemedicine sparingly, but during the crisis, its use soared. To reduce the spread of viruses, policymakers, insurers, and health systems have considered alternative care methods for patients in their homes. The need for 5G has primarily been driven by the need to facilitate effective telemedicine service delivery.

The market CAGR is being driven by technological innovation. The 5G network is being tested in the healthcare industry, and it is deploying a novel solution that could improve and revolutionize patient care. Major players in the 5G healthcare market are concentrating on creating cutting-edge technologies to strengthen their position in the industry. For instance, Enovacom, a healthcare division of Orange, announced the release of the Enovacom Patient Link solution in November 2021 to speed up the patient journey's digitalization. Several medical facilities use a tool called Enovacom Patient Link to strengthen patient relationships during administrative and medical procedures. It debuted at the Santexpo trade show. Enovacom emphasizes its new objective with this launch: to help patients and medical facilities make the most of the time spent receiving care. Thus, driving the 5G in healthcare market revenue.

## 5G in Healthcare Market Segment Insights

### 5G in Healthcare Component Insights

The 5G in healthcare market segmentation, based on component includes Hardware, Services and Connectivity. The hardware segment dominated the market due to the requirement for regular equipment replacement or upgrading to maximize the most recent technologies available. In addition, the development of technology and the rise in demand for ultra-low latency, enormous connection, and high bandwidth are anticipated to create opportunities for the hardware market to expand.

### 5G in Healthcare Application Insights

The 5G in healthcare market segmentation, based on application, includes Connected Medical Devices, Remote Patient Monitoring, Assets Tracking for Medical Devices, AR/VR and Connected Ambulance. The remote patient monitoring category generated the most income due to an increase in the number of older adults and a growth in the demand for remote health exams. In order to effectively treat chronic conditions and provide pro-active healthcare, remote patient monitoring is essential. The rising cases of COVID-19 cases, rising healthcare costs, and consumers' greater attention to personal health further drive the demand for remote patient monitoring.

### 5G in Healthcare End User Insights

The 5G in healthcare market segmentation, based on end user, includes Healthcare Providers and Healthcare Players. The healthcare players category generated the most income. This is linked to the growing need for better technologies, the expanding patient volume, the growing use of wearable medical devices with 5G technologies, and the growing number of hospitals and ambulatory care facilities.

**Figure 1: 5G in Healthcare Market, by End User, 2022 & 2032 (USD billion)**

5G in Healthcare Market by End User

**Source: Secondary Research, Primary Research, MRFR Database and Analyst Review**

**December 2022:** Reliance A strategic cooperation agreement will be signed between Jio and the Institute of Liver and Biliary Science (ILBS) to deploy the telecommunications company's 5G standalone (SA) network to power healthcare solutions for a variety of use cases. Jio's 'True 5G' service, when combined with low latency, will make it possible for new use cases to emerge in the field of healthcare. Some examples of these use cases include robotics-based treatment or surgery, remote ICU, ICU Ambulance, community clinics, and others. Even before the beginning of the roll outs of 5G, both Jio and Bharti Airtel had been showing many use cases, one of which was using 5G in ambulances to administer vital care while the vehicle was in motion.

**May 2023:** Verizon Communications is taking advantage of a new cooperation to investigate how the deployment of private 5G networks in healthcare facilities might facilitate digital transformations and improve patient care. A partnership between Verizon and the Cleveland Clinic has been announced, with the goal of installing a private 5G network at a new Cleveland Clinic hospital in Mentor, Ohio. Despite the fact that the 5G network serves as the basis for the transaction, the two businesses have stated that they intend to take advantage of the chance to investigate possible digital solutions. These solutions may include patient check-in kiosks, in-room infotainment, and augmented or virtual reality tools that can be used for a number of imaging and training purposes.

### 5G in Healthcare Regional Insights

By region, the study provides the market insights into North America, Europe, Asia-Pacific and Rest of the World. The North American 5G in healthcare market area will dominate this market due to

government plans to implement 5G in healthcare and an increase in the number of medical devices that support 5G. For instance, the Biden administration announced an investment of more than USD 19 million in August 2021 to enhance telehealth services in rural areas and increase telehealth innovation and quality nationally.

Further, the major countries studied in the market report are The US, Canada, Germany, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

**Figure 2: 5G In Healthcare Market Share By Region 2022 (%)**

#### 5G IN HEALTHCARE MARKET SHARE BY REGION

**Source: Secondary Research, Primary Research, MRFR Database and Analyst Review**

Europe 5G in healthcare market accounts for the second-largest market share because of the quick release of medical equipment integrated with 5G RF transceivers, the high acceptance of cutting-edge technologies, expanding R&D spending in the medical industry, rising health consciousness, and surging number of hospitals and ASCs. Further, the German 5G in healthcare market held the largest market share, and the UK 5G in healthcare market was the fastest growing market in the European region.

The Asia-Pacific 5G in healthcare Market is expected to grow at the fastest CAGR from 2024 to 2032 due to the widespread use of cutting-edge technologies, improved network connectivity, greater government initiatives to boost public awareness of telehealth, and the penetration of 5G in the healthcare sector. Moreover, China's 5G in healthcare market held the largest market share, and the Indian 5G in healthcare market was the fastest growing market in the Asia-Pacific region.

#### 5G in healthcare Key Market Players & Competitive Insights

Leading market players are investing heavily in research and development in order to expand their product lines, which will help the 5G in healthcare market, grow even more. Market participants are also undertaking a variety of strategic activities to expand their footprint, with important market developments including new product launches, contractual agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. To expand and survive in a more competitive and rising market climate, 5G in healthcare industry must offer cost-effective items.

Manufacturing locally to minimize operational costs is one of the key business tactics used by manufacturers in the 5G in healthcare industry to benefit clients and increase the market sector. In recent years, the 5G in healthcare industry has offered some of the most significant advantages to medicine. Major players in the 5G in healthcare market attempting to increase market demand by investing in research and development operations include AT&T Inc. (US), Verizon (US), Ericsson (Sweden), T-Mobile USA Inc. (US), Cisco Systems Inc. (US), Telus Communications Inc. (Canada), Telit (UK), Orange S.A. (France), Telefónica S.A. (Spain), SAMSUNG (South Korea) and BT Group (UK).

Telus Corp (Telus) offers telecom services, including cellular and wireline options. Voice, Internet, entertainment, conferencing, IP networks and apps, hosting, managed IT, call centre and outsourced solutions, security, and cloud-based services are just a few of the many communications products and services that the company provides. Customers using national cellular networks can get both postpaid and prepaid voice and data options from Telus. A few of the services it offers are social networking, mobile applications, and fast web access. The business also offers healthcare IT solutions.

An organization that offers media, technology, and telecommunications services is AT&T Inc. The business provides wholesale services, telecommunications equipment, wireless communications, managed networking, data/broadband and internet services, local and long-distance telephone services, and telecommunications equipment. Additionally, AT&T creates, produces, and disseminates both physical and digital content for television, gaming, feature films, and other media. Additional services include entertainment and advertising. The firm caters to both individual and commercial consumers. In February 2021, AT&T has announced a collaboration with Rush University System for Health, a Chicago-based academic health system, to test AT&T Multi-Access Edge Computing (MEC) and advanced technologies related to network in Rush hospitals for improved operations and patient and staff experience.

#### Key Companies in the 5G in healthcare market include

- AT&T Inc. (US)
- Verizon (US)
- Ericsson (Sweden)
- T-Mobile USA Inc. (US)
- Cisco Systems Inc. (US)
- Telus Communications Inc. (Canada)
- Telit (UK)

- Orange S.A. (France)
- Telefónica S.A. (Spain)
- SAMSUNG (South Korea)
- BT Group (UK)

## 5G in Healthcare Industry Developments

**May 2023:** Ericsson (Sweden) acquired Cisco Systems Inc (US). Through the acquisition, Ericsson's 5G capabilities will grow, and Cisco's healthcare clients will be able to use 5G technology to enhance patient care

**October 2023:** Ericsson (Sweden) and Chunghwa Telecom (Taiwan) collaborated to make 5G connected ambulances with network slicing possible. This partnership is a significant advancement in the use of 5G technology to improve emergency medical services

Telefónica S.A. (Spain) has introduced a 5G standalone network. To meet the 5G mobile communications standard's requirements for low latency, high-speed connectivity, and sustainability, mobile traffic with 5G Plus is processed in the 5G SA core network. 5G SA on several campuses in the public and private sectors, but it should be noted that a wider rollout will allow access to sectors like healthcare

**May 2022:** A hospital in Germany now has a 5G SA network thanks to O2 Telefónica. The 5G project seeks to increase the effectiveness of current healthcare systems.

**January 2022:** Thailand opened the first 5G smart hospital in the Association of Southeast Asian Nations (ASEAN). According to the agreement, Siriraj Hospital, Huawei Technologies (Thailand) Co., Ltd., and The National Broadcasting and Telecommunications Commission (NBTC) Thailand Office jointly unveiled the "Siriraj World Class 5G Smart Hospital."

## 5G in Healthcare Market Segmentation

### 5G in Healthcare Component Outlook

- Hardware
- Services
- Connectivity

### 5G in Healthcare Application Outlook

- Connected Medical Devices
- Remote Patient Monitoring
- Assets Tracking for Medical Devices
- AR/VR
- Connected Ambulance

### 5G in Healthcare End User Outlook

- Healthcare Providers
- Healthcare Players

### 5G in Healthcare Regional Outlook

- North America
  - US
  - Canada
- Europe
  - Germany

- France
- UK
- Italy
- Spain
- Rest of Europe
- Asia-Pacific
  - China
  - Japan
  - India
  - Australia
  - South Korea
  - Australia
  - Rest of Asia-Pacific
- Rest of the World
  - Middle East
  - Africa
  - Latin America

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