

# **IoT in Healthcare Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Medical Devices, System and Software, Services), By Medical Devices (Stationery Medical Devices, Implants, Wearables), By System and Software (Remote Device Management, Data Analytics, Application Security and Others), By Services (Managed Services, Professional Services), By Application (Telemedicine, Remote Patient Monitoring, Clinical Operations and Workflow Management, Connected Imaging and Others), By End User (Hospitals and Clinics, Clinical Research Centres and Diagnostic Labs), By Region and Competition, 2020-2030F**

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## **Abstracts**

Global IoT in Healthcare Market was valued at USD 44.47 Billion in 2024 and is expected to reach USD 120.96 Billion by 2030 with a CAGR of 18.32% during the forecast period. The Global Internet of Things (IoT) in Healthcare Market is a dynamic landscape characterized by the integration of advanced technologies into healthcare systems worldwide. IoT in healthcare refers to the interconnected network of medical devices, sensors, software applications, and systems that collect, transmit, and analyze healthcare data in real-time. This market is experiencing rapid growth driven by factors such as the increasing adoption of wearable devices, remote patient monitoring

solutions, and the demand for efficient healthcare delivery systems.

The IoT technology enables healthcare providers to remotely monitor patients' vital signs, track medication adherence, and manage chronic conditions more effectively, leading to improved patient outcomes and reduced healthcare costs. Key applications of IoT in healthcare include telemedicine, remote patient monitoring, asset tracking, and smart medical device management. The proliferation of connected medical devices and the growing emphasis on data-driven decision-making in healthcare are driving the expansion of the IoT in healthcare market.

Additionally, the COVID-19 pandemic has further accelerated the adoption of IoT solutions in healthcare, with a focus on remote patient monitoring and telehealth services to ensure continuity of care while minimizing the risk of virus transmission. However, challenges such as data security concerns, interoperability issues, and regulatory compliance remain significant barriers to widespread adoption. Nevertheless, ongoing advancements in IoT technologies, coupled with increasing investments in healthcare infrastructure and digital transformation initiatives, are expected to fuel the continued growth of the Global IoT in Healthcare Market in the coming years.

## Key Market Drivers

### Rising Demand for Remote Patient Monitoring

The rising demand for Remote Patient Monitoring (RPM) is exerting a profound influence on the Global IoT in Healthcare Market, fueling its expansion and innovation. This surge in demand is driven by several key factors that underscore the transformative potential of RPM in revolutionizing healthcare delivery. The aging population and the increasing prevalence of chronic diseases are driving the need for continuous monitoring and management of patients' health outside traditional clinical settings. RPM enables healthcare providers to remotely monitor patients' vital signs, health metrics, and adherence to treatment plans, facilitating early detection of health issues and timely intervention. This proactive approach not only improves patient outcomes but also reduces healthcare costs by minimizing hospital readmissions and emergency room visits. The IDF Diabetes Atlas (2021) indicates that 10.5% of adults aged 20-79 are affected by diabetes, with nearly 50% unaware of their condition. By 2045, the IDF predicts a 46% increase in the number of adults living with diabetes, reaching an estimated 783 million, or 1 in 8 adults. This surge in diabetes cases is driving the need for more efficient and accessible healthcare management solutions, particularly in remote patient monitoring. As healthcare systems shift toward more

proactive, patient-centered care, the Internet of Things (IoT) is playing a pivotal role in facilitating continuous health monitoring, enabling real-time data collection, and improving patient outcomes. This growing demand for remote monitoring technologies is fueling the expansion of the IoT in healthcare market, as both healthcare providers and patients seek innovative solutions to manage chronic conditions like diabetes.

The COVID-19 pandemic has accelerated the adoption of RPM solutions as healthcare systems worldwide seek alternatives to in-person care delivery. With social distancing measures and infection control protocols in place, RPM provides a safe and efficient means of delivering care while minimizing the risk of virus transmission. Telemedicine platforms integrated with RPM capabilities enable virtual consultations, remote monitoring, and telehealth interventions, ensuring continuity of care amidst the pandemic.

Advancements in IoT technology, wearable devices, and wireless connectivity have made RPM more accessible and user-friendly. The proliferation of connected devices such as smartwatches, fitness trackers, and medical-grade wearables has empowered patients to actively participate in their own care by monitoring their health status in real-time. Additionally, the integration of RPM into healthcare systems allows for seamless data collection, transmission, and analysis, enabling healthcare providers to make informed decisions and deliver personalized care interventions.

Regulatory initiatives and reimbursement policies are also driving the adoption of RPM solutions. Regulatory bodies are increasingly recognizing the value of RPM in improving patient outcomes, enhancing care coordination, and reducing healthcare costs. As a result, there is growing support for RPM initiatives, with policymakers incentivizing healthcare providers to adopt RPM solutions through reimbursement programs and incentives.

### Growing Focus on Preventive Healthcare

The growing focus on preventive healthcare is serving as a significant catalyst for the expansion of the Global IoT in Healthcare Market, driving innovation and adoption of IoT-enabled solutions aimed at promoting wellness and disease prevention. This shift towards preventive healthcare is fueled by several key factors that underscore the importance of early intervention and proactive health management.

Rising healthcare costs and the increasing burden of chronic diseases have prompted a paradigm shift towards prevention rather than treatment. Preventable diseases such as

obesity, diabetes, and heart disease account for a significant portion of healthcare spending worldwide. By emphasizing preventive measures such as lifestyle modifications, early detection, and risk assessment, healthcare systems can reduce the prevalence and severity of chronic conditions, thereby alleviating the strain on healthcare resources and improving population health outcomes. The World Health Organization (WHO) reported that in 2021, 18 million individuals died from non-communicable diseases (NCDs) before the age of 70, with 82% of these premature deaths occurring in low- and middle-income countries. NCDs are responsible for 73% of global deaths, with cardiovascular diseases being the leading cause, contributing to 19 million deaths, followed by cancers (10 million) and chronic respiratory diseases (4 million). This alarming trend highlights the growing emphasis on preventive healthcare, as addressing the root causes of NCDs becomes a global priority. As a result, the healthcare sector is increasingly adopting IoT technologies to enable early detection, continuous monitoring, and proactive management of chronic conditions. The rising focus on prevention and personalized care is driving the growth of the IoT in healthcare market, as both healthcare providers and patients look for innovative solutions to reduce the burden of NCDs and improve overall health outcomes.

IoT technology plays a pivotal role in enabling preventive healthcare initiatives by providing real-time monitoring, data analytics, and predictive insights. Connected devices such as wearable sensors, smart scales, and mobile health apps empower individuals to track their health metrics, monitor their activity levels, and receive personalized recommendations for maintaining optimal health. These IoT-enabled solutions facilitate early detection of health issues, allowing individuals to take proactive steps towards prevention and risk mitigation.

The integration of IoT into population health management programs enables healthcare providers to identify high-risk individuals, target interventions, and allocate resources more effectively. By leveraging data analytics and predictive modeling, healthcare organizations can identify trends, patterns, and emerging health risks within their patient populations, enabling targeted interventions and preventive strategies. This proactive approach not only improves health outcomes but also reduces healthcare costs by preventing costly complications and hospitalizations.

## Technological Advancements

Technological advancements are propelling the Global IoT in Healthcare Market forward, revolutionizing the delivery of healthcare services and enhancing patient outcomes. These advancements encompass a wide range of innovations, from

wearable devices and sensors to artificial intelligence (AI) algorithms and data analytics, all of which contribute to the expansion and sophistication of IoT-enabled solutions in healthcare.

One of the key technological advancements driving the growth of the IoT in healthcare is the development of wearable devices and sensors. These devices incorporate advanced sensors, wireless connectivity, and miniaturized components to monitor various health parameters, including heart rate, blood pressure, glucose levels, and activity levels. Wearable devices such as smartwatches, fitness trackers, and medical-grade wearables enable continuous monitoring of patients' health status, facilitating early detection of health issues and personalized interventions.

Advancements in AI and machine learning are transforming the way healthcare data is analyzed and interpreted. AI algorithms can process vast amounts of healthcare data, including patient records, medical imaging, and sensor data, to derive actionable insights, identify patterns, and predict health outcomes. By leveraging AI-powered analytics, healthcare providers can make more informed decisions, optimize clinical workflows, and deliver personalized care interventions, thereby improving patient outcomes and reducing healthcare costs. In January 2025, MedMitra AI, an innovative platform leveraging artificial intelligence (AI) in healthcare, secured USD 0.35 Million in a pre-seed funding round. The company is developing autonomous AI agents aimed at assisting healthcare professionals with diagnosis, treatment, and prognosis. By integrating diverse data sources, including patient history, lab reports, prescriptions, and imaging, MedMitra AI enables healthcare providers to deliver more accurate, efficient, and personalized care. This advancement reflects the ongoing technological progress within the healthcare sector, highlighting the growing role of AI and data integration in transforming patient care. The development and adoption of such cutting-edge technologies are fueling the growth of the IoT in healthcare market, as they improve clinical decision-making and enhance overall healthcare delivery.

The integration of IoT technology with cloud computing and edge computing infrastructure is expanding the capabilities and scalability of IoT-enabled healthcare solutions. Cloud-based platforms provide secure storage, real-time data processing, and remote access to healthcare data, enabling seamless collaboration among healthcare providers and stakeholders. Edge computing solutions bring computational capabilities closer to the point of data generation, reducing latency and enabling real-time processing of sensor data at the network edge.

Advancements in telemedicine and remote monitoring technologies are driving the

adoption of IoT in healthcare, particularly in remote or underserved areas. Telemedicine platforms integrated with IoT-enabled devices enable virtual consultations, remote patient monitoring, and telehealth interventions, improving access to healthcare services and reducing barriers to care.

## Key Market Challenges

### Data Security and Privacy Concerns

In the rapidly evolving landscape of healthcare technology, data security and privacy concerns stand as formidable barriers to the widespread adoption of the Internet of Things (IoT) in healthcare. The Global IoT in Healthcare Market holds immense potential for transforming patient care and optimizing healthcare delivery, but these benefits are accompanied by significant risks related to the protection of sensitive patient data. Healthcare data, including personal health information (PHI) and electronic medical records (EMRs), is among the most sensitive and valuable data assets, subject to stringent regulatory requirements such as HIPAA in the United States and GDPR in the European Union. The interconnected nature of IoT devices in healthcare introduces new vulnerabilities and attack vectors, amplifying the risks of unauthorized access, data breaches, and privacy violations.

One of the primary challenges is ensuring the security of IoT-enabled medical devices themselves. Many IoT devices lack robust security features, making them vulnerable to cyberattacks and unauthorized access. Weaknesses in device authentication, encryption, and software vulnerabilities can expose patient data to malicious actors, jeopardizing patient privacy and confidentiality.

The proliferation of connected devices and the sheer volume of data generated exacerbate the complexity of managing and securing healthcare data. IoT devices collect vast amounts of real-time data from diverse sources, including wearable sensors, medical implants, and remote monitoring systems. This data must be transmitted, stored, and processed securely to prevent unauthorized access or tampering.

The dynamic nature of healthcare environments, with multiple stakeholders and interconnected systems, introduces additional challenges in maintaining data security and privacy. Healthcare organizations must navigate complex networks of healthcare providers, insurers, and third-party vendors, each with their own data security protocols and compliance requirements.



## Interoperability and Standardization

Interoperability and standardization pose significant challenges to the Global IoT in Healthcare Market, impeding the seamless integration and interoperability of IoT devices and systems within healthcare ecosystems. As the healthcare landscape becomes increasingly digitized and interconnected, the lack of standardized protocols and interoperable systems hampers data exchange, care coordination, and innovation. Healthcare organizations often rely on a multitude of proprietary systems and legacy technologies that operate in silos, making it difficult to exchange data and share information across different platforms. This lack of interoperability leads to data fragmentation, duplication, and inconsistencies, hindering care coordination, clinical decision-making, and patient engagement.

The absence of standardized data formats, communication protocols, and interface specifications exacerbates interoperability challenges in the IoT-enabled healthcare ecosystem. IoT devices and systems from different manufacturers may use proprietary protocols and data formats, making it challenging to achieve seamless integration and data exchange. As a result, healthcare providers are faced with interoperability barriers that impede the adoption and scalability of IoT solutions, limiting their potential to improve patient care and operational efficiency.

Interoperability challenges extend beyond technical considerations to encompass organizational and regulatory factors. Healthcare organizations must navigate complex networks of stakeholders, including healthcare providers, insurers, medical device manufacturers, and software vendors, each with their own standards and protocols. Achieving interoperability requires collaboration and alignment among these stakeholders to establish common standards, protocols, and data exchange mechanisms.

Addressing interoperability and standardization challenges requires a coordinated and collaborative approach from industry stakeholders, regulatory bodies, and standards organizations. Efforts to develop and adopt interoperability standards, such as Fast Healthcare Interoperability Resources (FHIR) and Integrating the Healthcare Enterprise (IHE), are critical for promoting data exchange and interoperability across healthcare systems and devices.

## Key Market Trends

## Data-driven Insights and Predictive Analytics

Data-driven insights and predictive analytics are playing a pivotal role in driving the growth and innovation of the Global IoT in Healthcare Market. As healthcare systems worldwide undergo digital transformation, the integration of IoT technology with advanced analytics tools and artificial intelligence (AI) algorithms is revolutionizing the delivery of patient care and transforming clinical decision-making processes. One of the key advantages of IoT in healthcare is its ability to generate vast amounts of real-time data from diverse sources, including medical devices, wearable sensors, electronic health records (EHRs), and patient-generated data. This wealth of data presents unprecedented opportunities for deriving actionable insights, identifying trends, and predicting health outcomes through advanced analytics and predictive modeling.

Data-driven insights enable healthcare providers to gain a deeper understanding of patient populations, disease trends, and healthcare delivery patterns, empowering them to make informed decisions and optimize clinical workflows. By analyzing IoT-generated data, healthcare organizations can identify high-risk patients, target interventions, and allocate resources more effectively, leading to improved patient outcomes and operational efficiency. In December 2024, Tuva Health, the world's first open-source healthcare data transformation platform, emerged from stealth mode with USD 5M in seed funding. The platform empowers payers, providers, and pharmaceutical companies to convert claims and EHR (electronic health record) data into analytics-ready tables, utilizing an open-source data model with features like built-in normalization, data quality testing, and enrichment. Tuva Health's mission is to enhance high-quality healthcare analytics by providing transparent, customizable, and open data transformation solutions. This approach facilitates the accelerated identification of new treatment pathways and improvements in patient care. The company's focus on data-driven insights and predictive analytics aligns with the growing demand for actionable, real-time healthcare data, contributing to the expansion of the IoT in healthcare market by enabling more precise decision-making and optimized patient outcomes.

Predictive analytics leverages machine learning algorithms to forecast future events and trends based on historical data and patterns. In the context of healthcare, predictive analytics enables early detection of health issues, risk stratification, and personalized treatment planning. By analyzing IoT-generated data streams in real-time, predictive analytics algorithms can identify anomalies, predict disease progression, and recommend timely interventions, thereby improving patient outcomes and reducing healthcare costs.



Data-driven insights and predictive analytics facilitate population health management initiatives, public health surveillance, and epidemiological research. By aggregating and analyzing IoT-generated data at scale, healthcare organizations can identify population-level health trends, track disease outbreaks, and implement targeted interventions to improve public health outcomes. Realizing the full potential of data-driven insights and predictive analytics in healthcare requires addressing several challenges, including data privacy and security concerns, interoperability issues, and regulatory compliance requirements. Healthcare organizations must invest in robust cybersecurity solutions, data governance frameworks, and interoperable IT infrastructure to safeguard patient data and ensure compliance with regulatory requirements.

### Wearable Health Devices and Smart Sensors

Wearable health devices and smart sensors are emerging as transformative tools in the Global Internet of Things (IoT) in Healthcare Market, driving innovation and revolutionizing patient care delivery. These devices, powered by IoT technology, offer real-time monitoring and data collection capabilities, enabling individuals to take proactive steps towards managing their health and wellness. The widespread adoption of wearable health devices, such as smartwatches, fitness trackers, and medical-grade wearables, reflects a growing trend towards personalized and preventative healthcare. These devices are equipped with sensors that track various health parameters, including heart rate, activity levels, sleep patterns, and even blood oxygen levels. By continuously monitoring these metrics, individuals gain valuable insights into their health status, allowing them to make informed decisions about their lifestyle, activity levels, and overall well-being. In May 2024, the U.S. Food and Drug Administration (FDA) approved the use of the Apple Watch's atrial fibrillation (AFib) history feature for medical device clinical trials. The FDA has authorized the use of data collected by the Apple Watch as a secondary endpoint to evaluate AFib burden in studies related to cardiac ablation devices. This development underscores the growing role of wearable health devices in clinical research, highlighting their potential to enhance patient monitoring, streamline data collection, and improve the precision of healthcare trials. The increasing integration of wearable technologies into medical research is driving the expansion of the IoT in healthcare market, as these devices provide valuable real-time health insights that support better decision-making and patient outcomes.

Smart sensors embedded in wearable devices and medical equipment further enhance the capabilities of IoT in healthcare by enabling remote monitoring and real-time data transmission. These sensors can be integrated into wearable patches, smart clothing,

and medical implants, providing clinicians with continuous access to patient data and enabling timely interventions. For example, wearable ECG monitors can detect abnormal heart rhythms and alert healthcare providers to potential cardiac events, while smart insulin pumps can automatically adjust insulin dosages based on glucose levels, improving diabetes management.

In addition to empowering individuals to monitor their health, wearable health devices and smart sensors play a crucial role in remote patient monitoring (RPM) and telehealth initiatives. With the rise of telemedicine and virtual care delivery, IoT-enabled wearable devices enable patients to participate in virtual consultations, receive remote monitoring, and access healthcare services from the comfort of their homes. This remote monitoring capability not only improves patient convenience and access to care but also reduces the burden on healthcare facilities and minimizes the risk of exposure to infectious diseases.

The integration of wearable health devices and smart sensors into population health management programs enables healthcare organizations to collect real-world data, track health trends, and identify high-risk populations. By analyzing aggregated data from wearable devices and smart sensors, healthcare providers can identify patterns, predict disease outbreaks, and implement targeted interventions to improve public health outcomes.

## Segmental Insights

### Component Insights

Based on Component, services emerged as the dominating segment in the global market for IoT in Healthcare in 2024. Healthcare organizations often lack the internal resources and expertise required to deploy and maintain IoT solutions effectively. Therefore, they rely on service providers and vendors to assist them throughout the entire lifecycle of IoT projects. Services such as consulting and advisory services help healthcare organizations assess their needs, define their IoT strategy, and identify suitable solutions. Implementation services involve the deployment and integration of IoT devices, sensors, and software into existing healthcare IT infrastructure, ensuring seamless interoperability and data exchange. Maintenance and support services are essential for ensuring the ongoing performance, reliability, and security of IoT-enabled systems, including regular updates, troubleshooting, and technical support. Additionally, services play a crucial role in addressing key challenges such as data security and privacy, interoperability, and regulatory compliance.

## Medical Devices Insights

Based on Medical Devices, wearables emerged as the fastest growing segment in the global market for IoT in Healthcare during the forecast period. This trend is primarily due to the increasing adoption of wearable technology by consumers and healthcare organizations, driven by its versatility, accessibility, and ability to facilitate remote patient monitoring and personalized healthcare. Wearable devices, such as smartwatches, fitness trackers, and medical-grade wearables, have gained widespread popularity among consumers for their ability to track various health parameters, including heart rate, activity levels, sleep patterns, and even blood oxygen levels. These devices integrate IoT technology, enabling seamless connectivity and data transmission to smartphones, tablets, and healthcare provider portals. The convenience and ease of use offered by wearable devices make them a preferred choice for individuals seeking to monitor their health and wellness in real-time. Wearables play a crucial role in remote patient monitoring (RPM) and telehealth initiatives, allowing healthcare providers to monitor patients' health metrics remotely and deliver virtual care interventions.

## Regional Insights

Based on Region, North America emerged as the dominant region in the Global IoT in Healthcare Market in 2024. North America benefits from a well-established healthcare infrastructure and a cutting-edge technological ecosystem, positioning the region to effectively harness IoT solutions to enhance patient care and healthcare outcomes. The region is home to leading healthcare providers, research institutions, and technology companies, all of which play a key role in driving innovation and investment in IoT-enabled healthcare solutions. According to the National Health Expenditure Accounts (NHEA), U.S. healthcare spending grew by 7.5% in 2023, reaching USD 4.9 trillion, or USD 14,570 per person. This accounted for 17.6% of the nation's Gross Domestic Product (GDP). The region's significant healthcare expenditure, combined with the growing demand for value-based care, is fueling investments in IoT solutions for remote patient monitoring, telehealth, and population health management. Healthcare providers in North America are increasingly recognizing the value of IoT technology in improving patient outcomes, reducing costs, and optimizing healthcare delivery, driving widespread adoption throughout the region. Additionally, the ongoing shift towards personalized and preventative care further accelerates the demand for IoT-enabled devices, which offer real-time health data and more proactive interventions, ensuring better patient engagement and more efficient healthcare systems.

## Key Market Players

Medtronic, Plc

Koninklijke Philips N.V.

GE Healthcare Inc.

International Business Machines Corporation

Microsoft Corporation

Oracle Cerner

AgaMatrix, Inc.

Cisco Systems, Inc.

Intel Corporation

Siemens Healthineers AG

## Report Scope:

In this report, the Global IoT in Healthcare Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

IoT in Healthcare Market, By Component:

Medical Devices

System and Software

Services

IoT in Healthcare Market, By Medical Devices:

Stationery Medical Devices

Implants

Wearables

IoT in Healthcare Market, System and Software:

Remote Device Management

Data Analytics

Application Security and Others

IoT in Healthcare Market, Application:

Telemedicine

Remote Patient Monitoring

Clinical Operations and Workflow Management

Connected Imaging and Others

IoT in Healthcare Market, Services:

Services

Professional Services

Global IoT in Healthcare Market, End User:

Hospitals and Clinics

Clinical Research Centers and Diagnostic Labs

IoT in Healthcare Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia



Middle East & Africa

South Africa

Saudi Arabia

UAE

Egypt

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global IoT in Healthcare Market.

Available Customizations:

Global IoT in Healthcare Market report with the given market data, TechSci 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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