

United States Artificial Intelligence in Remote Patient Monitoring Market By Component (AI-enabled Devices, Software & Platform, Services), By Clinical Application (Cardiovascular Monitoring, Diabetes Management, Respiratory Monitoring, Oncology Remote Monitoring, Mental Health & Behavioral Monitoring, Post-operative & Home Recovery, Elderly/Frail Patient Monitoring, Sleep Disorders & Neurological Monitoring, Others), By End User (Hospitals & Health Systems, Home Healthcare Providers, Primary Care/Outpatient Clinics, Payers & Health Insurers, Healthcare Companies, Others), By Region, Competition, Forecast & Opportunities, 2020-2030F

<https://marketpublishers.com/r/UE9CF06135DFEN.html>

Date: September 2025

Pages: 86

Price: US\$ 3,500.00 (Single User License)

ID: UE9CF06135DFEN

Abstracts

Market Overview

United States Artificial Intelligence in Remote Patient Monitoring Market was valued at USD 856.03 Million in 2024 and is expected to reach USD 3449.21 Million by 2030 with a CAGR of 26.12%. The United States Artificial Intelligence in Remote Patient Monitoring (RPM) Market is experiencing significant growth, driven by the rising burden of chronic diseases and the urgent need to shift from reactive to proactive healthcare delivery. With a large percentage of the U.S. adult population managing conditions like

diabetes, cardiovascular disease, and respiratory disorders, the demand for continuous patient monitoring outside hospital settings is accelerating. AI-enabled RPM technologies such as wearable devices, biosensors, and mobile health platforms provide real-time insights that support early detection of complications, timely intervention, and reduced hospital readmissions. This transformation aligns with the national push toward value-based care models that reward improved health outcomes and cost-efficiency, prompting healthcare providers to adopt intelligent monitoring solutions.

A key market trend is the integration of cloud-based AI solutions that enable seamless data exchange and remote access to patient information. Healthcare providers are increasingly adopting digital tools that combine AI with telehealth and electronic health record systems to improve clinical workflows and decision-making. Predictive analytics powered by AI help flag potential health risks, optimize treatment protocols, and personalize patient care plans. The proliferation of connected devices, including smartwatches, implantable sensors, and mobile apps, is expanding the scope of RPM to cover a broader range of use cases, including post-operative monitoring, mental health, and elderly care. Strategic collaborations between healthcare institutions, technology companies, and AI developers are further fueling the innovation pipeline in this space.

Despite its rapid advancement, the market faces key challenges. Data privacy and security remain pressing concerns, given the sensitive nature of health information collected through remote channels. Ensuring compliance with regulations and protecting patient data from cyber threats require substantial investment and robust cybersecurity protocols. Integration issues between AI-driven RPM systems and legacy healthcare IT infrastructure can hinder data continuity and clinical adoption. Reimbursement models, while evolving, still present inconsistencies that limit the widespread rollout of AI-enhanced monitoring, especially among small clinics and rural providers. There are also concerns about algorithmic transparency and bias, particularly when AI systems are trained on non-diverse data sets. Overcoming these obstacles will be essential for sustaining long-term growth and building trust in AI-powered RPM solutions.

Key Market Drivers

Rising Prevalence of Chronic Diseases

The rising prevalence of chronic diseases stands as a pivotal driver for the United States Artificial Intelligence in Remote Patient Monitoring Market. The Centers for

Disease Control and Prevention (CDC) reports that in the U.S. alone, 6 in 10 adults suffer from at least one chronic disease, while 4 in 10 have two or more conditions as of 2024. This growing patient population requires continuous monitoring and timely interventions to prevent complications and hospitalizations. Traditional healthcare systems often struggle to provide round-the-clock care, creating a pressing need for innovative solutions.

AI-powered remote patient monitoring addresses this gap by enabling real-time tracking of vital signs through wearable devices and smart sensors. The growing burden is exacerbated by demographic shifts, with the U.S. Census Bureau projecting that by 2030, 21% of the population will be aged 65+ and more susceptible to chronic illnesses. Healthcare systems are responding by integrating AI monitoring solutions, with Medicare Advantage plans covering 19% more RPM services in 2024 compared to the previous year. As government health agencies worldwide prioritize chronic disease prevention, AI-enabled remote monitoring has become an essential component of modern healthcare infrastructure, transforming reactive care into proactive population health management.

Key Market Challenges

Concerns Around Data Privacy, Security, and Patient Consent

The United States Artificial Intelligence in Remote Patient Monitoring Market faces significant challenges related to data privacy, security, and patient consent, which could hinder widespread adoption. AI-driven remote monitoring systems collect vast amounts of sensitive health data, including physiological metrics, medication adherence patterns, and behavioral information, raising critical concerns about unauthorized access or breaches. Strict regulatory frameworks like GDPR in Europe and HIPAA in the U.S. impose complex compliance requirements on how this data must be stored, processed, and shared, creating operational burdens for healthcare providers and technology developers. The use of cloud-based platforms and third-party AI algorithms introduces vulnerabilities where patient data could be exposed during transmission or through insufficient encryption protocols.

Patient consent presents another layer of complexity, as many individuals lack clear understanding of how their health data will be used by AI systems, particularly when shared across multiple stakeholders such as clinicians, insurers, and tech companies. Ambiguities in consent management arise when AI models require continuous data streams for real-time monitoring, making it difficult to maintain transparent opt-in

mechanisms. The risk of data misuse extends beyond clinical settings, as insurers or employers could potentially leverage predictive insights from AI monitoring to make coverage or employment decisions. Cybersecurity threats targeting healthcare systems have escalated, with ransomware attacks capable of compromising entire remote monitoring networks, disrupting patient care while exposing confidential records.

These challenges are compounded by the lack of universal standards governing AI-specific health data usage, leaving gaps in accountability when breaches occur. Healthcare organizations must invest heavily in advanced encryption, blockchain-based audit trails, and staff training to mitigate risks, increasing the total cost of deployment. Without robust solutions to address privacy concerns and build patient trust, the growth potential of AI in remote monitoring could be severely constrained despite its clinical benefits.

Key Market Trends

Integration of AI with Wearable and Connected Health Devices

The integration of AI with wearable and connected health devices is transforming the United States Artificial Intelligence in Remote Patient Monitoring Market, creating a paradigm shift in personalized healthcare delivery. Advanced wearables now incorporate sophisticated AI algorithms capable of processing real-time biometric data such as heart rate variability, blood oxygen levels, and electrodermal activity to detect subtle health anomalies that might otherwise go unnoticed. These AI-enhanced devices move beyond basic fitness tracking to offer clinical-grade monitoring, enabling early intervention for chronic conditions like diabetes, hypertension, and cardiac arrhythmias. The seamless synchronization between wearables and centralized AI platforms allows healthcare providers to access continuous patient insights, reducing reliance on sporadic clinic visits and manual data interpretation.

The market is witnessing rapid innovation in multi-sensor wearable designs that combine AI-driven predictive analytics with user-friendly interfaces, improving both accuracy and patient engagement. Smartwatches, patches, and biosensor-equipped garments now leverage edge computing to process data locally, ensuring faster response times while maintaining privacy. AI algorithms trained on diverse datasets can identify patterns specific to individual patients, offering tailored health recommendations and automated alerts for potential emergencies. The proliferation of 5G networks further enhances these capabilities, enabling real-time data transmission between devices and healthcare systems without latency issues. Pharmaceutical companies and clinical

researchers are increasingly adopting AI-integrated wearables for decentralized trials, collecting precise, longitudinal data on treatment efficacy and patient adherence.

This trend is accelerating as insurers and healthcare providers recognize the cost-saving potential of AI-powered remote monitoring in reducing hospital readmissions and preventing complications. The convergence of AI with next-generation wearables is setting new standards for proactive, data-driven healthcare, making continuous monitoring more accessible and actionable for both patients and clinicians.

Key Market Players

BioIntelliSense

Jorie Healthcare Partners

HealthSnap, Inc.

CompuGroup Medical

Kakao Healthcare Corp.

Powerful Medical

Viatom Technology Co., Ltd.

AliveCor, Inc.

Credo Health AI

Center Health

Report Scope:

In this report, the United States Artificial Intelligence in Remote Patient Monitoring Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

United States Artificial Intelligence in Remote Patient Monitoring Market, By

Component:

AI-enabled Devices

Software & Platform

Services

United States Artificial Intelligence in Remote Patient Monitoring Market, By Clinical Application:

Cardiovascular Monitoring

Diabetes Management

Respiratory Monitoring

Oncology Remote Monitoring

Mental Health & Behavioral Monitoring

Post-operative & Home Recovery

Elderly/Frail Patient Monitoring

Sleep Disorders & Neurological Monitoring

Others

United States Artificial Intelligence in Remote Patient Monitoring Market, By End User:

Hospitals & Health Systems

Home Healthcare Providers

Primary Care/Outpatient Clinics

Payers & Health Insurers

Healthcare Companies

Others

United States Artificial Intelligence in Remote Patient Monitoring Market, By
Region:

North-East

Mid-West

West

South

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the United States Artificial Intelligence in Remote Patient Monitoring Market.

Available Customizations:

United States Artificial Intelligence in Remote Patient Monitoring 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).

Contents

1. PRODUCT 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. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. UNITED STATES ARTIFICIAL INTELLIGENCE IN REMOTE PATIENT MONITORING MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Component (AI-enabled Devices, Software & Platform, Services)
 - 5.2.2. By Clinical Application (Cardiovascular Monitoring, Diabetes Management, Respiratory Monitoring, Oncology Remote Monitoring, Mental Health & Behavioral

Monitoring, Post-operative & Home Recovery, Elderly/Frail Patient Monitoring, Sleep Disorders & Neurological Monitoring, Others)

5.2.3. By End User (Hospitals & Health Systems, Home Healthcare Providers, Primary Care/Outpatient Clinics, Payers & Health Insurers, Healthcare Companies, Others)

5.2.4. By Region

5.2.5. By Company (2024)

5.3. Market Map

6. NORTH-EAST ARTIFICIAL INTELLIGENCE IN REMOTE PATIENT MONITORING MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Component

6.2.2. By Clinical Application

6.2.3. By End User

7. MID-WEST ARTIFICIAL INTELLIGENCE IN REMOTE PATIENT MONITORING 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 Clinical Application

7.2.3. By End User

8. WEST ARTIFICIAL INTELLIGENCE IN REMOTE PATIENT MONITORING 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 Clinical Application

8.2.3. By End User

9. SOUTH ARTIFICIAL INTELLIGENCE IN REMOTE PATIENT MONITORING

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 Clinical Application

9.2.3. By End User

10. MARKET DYNAMICS

10.1. Drivers

10.2. Challenges

11. MARKET TRENDS & DEVELOPMENTS

11.1. Merger & Acquisition (If Any)

11.2. Product Launches (If Any)

11.3. Recent Developments

12. DISRUPTIONS: CONFLICTS, PANDEMICS AND TRADE BARRIERS

13. POLICY & REGULATORY LANDSCAPE

14. UNITED STATES ECONOMIC PROFILE

15. UNITED STATES ARTIFICIAL INTELLIGENCE IN REMOTE PATIENT MONITORING MARKET: SWOT ANALYSIS

16. PORTER'S FIVE FORCES ANALYSIS

16.1. Competition in the Industry

16.2. Potential of New Entrants

16.3. Power of Suppliers

16.4. Power of Customers

16.5. Threat of Substitute Products

17. COMPETITIVE LANDSCAPE

- 17.1. BioIntelliSense
 - 17.1.1. Business Overview
 - 17.1.2. Company Snapshot
 - 17.1.3. Products & Services
 - 17.1.4. Financials (As Reported)
 - 17.1.5. Recent Developments
 - 17.1.6. Key Personnel Details
 - 17.1.7. SWOT Analysis
- 17.2. Jorie Healthcare Partners
- 17.3. HealthSnap, Inc.
- 17.4. CompuGroup Medical
- 17.5. Kakao Healthcare Corp.
- 17.6. Powerful Medical
- 17.7. Viatom Technology Co., Ltd.
- 17.8. AliveCor, Inc.
- 17.9. Credo Health AI
- 17.10. Center Health

18. STRATEGIC RECOMMENDATIONS

19. ABOUT US & DISCLAIMER

I would like to order

Product name: United States Artificial Intelligence in Remote Patient Monitoring Market By Component (AI-enabled Devices, Software & Platform, Services), By Clinical Application (Cardiovascular Monitoring, Diabetes Management, Respiratory Monitoring, Oncology Remote Monitoring, Mental Health & Behavioral Monitoring, Post-operative & Home Recovery, Elderly/Frail Patient Monitoring, Sleep Disorders & Neurological Monitoring, Others), By End User (Hospitals & Health Systems, Home Healthcare Providers, Primary Care/Outpatient Clinics, Payers & Health Insurers, Healthcare Companies, Others), By Region, Competition, Forecast & Opportunities, 2020-2030F

Product link: <https://marketpublishers.com/r/UE9CF06135DFEN.html>

Price: US\$ 3,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/UE9CF06135DFEN.html>