

# **Smart Hospital Management System Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology (Artificial Intelligence, Internet of Things, Big Data & Analytics, Machine Learning, Others), By Component (Hardware, Software, Services), By End-User (Multispecialty Hospitals, Super-Specialty Hospitals, Clinics & Ambulatory Surgical Centers, Academic & Research Institutes), By Region, and By Competition, 2020-2030F**

<https://marketpublishers.com/r/S8FEDCAD0DE0EN.html>

Date: June 2025

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: S8FEDCAD0DE0EN

## **Abstracts**

### Market Overview

The Global Smart Hospital Management System Market was valued at USD 61.21 Billion in 2024 and is projected to reach USD 168.00 Billion by 2030, growing at a CAGR of 18.15% during the forecast period. This growth is driven by increasing demand for efficient healthcare delivery, rising digital transformation, and the need to optimize operational costs in hospitals. Smart hospital management systems leverage advanced technologies like IoT, AI, cloud computing, and big data analytics to enhance clinical outcomes, automate diagnostics, and streamline administrative workflows. These systems enable real-time monitoring, predictive maintenance, and seamless coordination among healthcare professionals, proving especially vital in high-complexity healthcare settings.

The rising prevalence of chronic diseases, aging populations, and pressure on

healthcare infrastructure are accelerating the adoption of intelligent hospital systems. Investments from both government and private sectors into digital healthcare infrastructure are further fueling growth, particularly in both developed nations and emerging economies. Software components such as EHR and HIS dominate the market, while IoT stands out as the fastest-growing technology. Cloud-based models are gaining preference for their scalability and cost-efficiency, while key applications such as inpatient and outpatient management, pharmacy automation, and revenue cycle optimization continue to drive demand across multispecialty and super-specialty hospitals.

## Key Market Drivers

### Rapid Adoption of IoT in Healthcare

The widespread integration of Internet of Things (IoT) technology is significantly advancing smart hospital management systems. IoT facilitates connectivity between patients, medical equipment, and hospital systems, enhancing efficiency and care quality. Over 60% of hospitals worldwide have adopted IoT-enabled tools for patient and asset monitoring.

The use of Real-Time Location Systems (RTLS) has reduced equipment loss by up to 35%, while IoT integration in HVAC systems has achieved energy cost savings of approximately 20%. Smart beds and IoT-enabled wards have demonstrated a 30% improvement in patient turnover and 25% reduction in bed-related errors. These implementations reduce manual workloads, support proactive equipment maintenance, and improve both operational performance and patient care outcomes.

## Key Market Challenges

### High Initial Investment and Operational Costs

One of the primary challenges hindering adoption is the high cost associated with implementing smart hospital management systems. Building the required infrastructure—such as IoT devices, AI platforms, smart sensors, and software integration—demands significant capital expenditure.

Hospitals must invest in advanced hardware, secure networks, RFID systems, and servers. Software licensing, cloud deployment, and system upgrades add to long-term operational expenses. Moreover, customization to align with legacy systems can extend

implementation timelines and increase financial strain. Smaller hospitals and facilities in developing countries often lack the financial capacity for such investments, and public healthcare institutions may face long ROI periods, delaying their digital transformation initiatives.

## Key Market Trends

### Expansion of Remote Patient Monitoring and Virtual Care Platforms

As healthcare shifts toward value-based and patient-centered models, remote patient monitoring (RPM) and virtual care are becoming integral to smart hospital systems. These platforms enable hospitals to monitor patients outside clinical settings, improving chronic disease management and reducing readmission rates.

Wearables, mobile apps, and connected sensors track vital signs such as heart rate and oxygen saturation, transmitting real-time data to hospital systems. Integration of RPM has shown to reduce readmissions by up to 45% and increase medication adherence by 30%. Hospitals are also expanding virtual consultation services, especially in remote or underserved areas, to alleviate strain on physical infrastructure. By integrating RPM with hospital management systems, seamless data exchange between providers and patients is enabled, boosting clinical efficiency and reducing operational burdens.

## Key Market Players

Siemens Healthineers

Cerner Corporation

Philips Healthcare

GE HealthCare

Altera Digital Health

Medtronic

McKesson Corporation

Merative

Epic Systems Corporation

Oracle Corporation

### Report Scope:

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

#### Smart Hospital Management System Market, By Technology:

Artificial Intelligence

Internet of Things

Big Data & Analytics

Machine Learning

Others

#### Smart Hospital Management System Market, By Component:

Hardware

Software

Services

#### Smart Hospital Management System Market, By End-User:

Multispecialty Hospitals

Super-Specialty Hospitals

Clinics & Ambulatory Surgical Centers

Academic & Research Institutes

### Smart Hospital Management System Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

South America

Brazil

Argentina

Colombia

Asia-Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Smart Hospital Management System Market.

Available Customizations:

Global Smart Hospital Management System 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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