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Global Edge Computing in Healthcare Market Size Study, by Offering (Hardware, Software, Services), by Application (Robotic Surgery, Diagnostics, Remote Patient Monitoring and Telehealth, Others), by End User (Hospitals and Clinics, Ambulatory Centers, Nursing Homes and Home Care, Others), and Regional Forecasts 2022-2032

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Abstracts

Global Edge Computing in Healthcare Market was valued at approximately USD 5.29 billion in 2023 and is projected to grow at a robust CAGR of 26.38% over the forecast period 2024-2032. Edge computing in healthcare revolutionizes data management by processing data from Internet of Things (IoT) devices for various applications such as asset tracking, environmental monitoring, and equipment maintenance. This innovation optimizes hospital efficiency, minimizes downtime, and significantly enhances patient safety by managing electronic health records (EHRs), allowing physicians to access patient data securely and promptly. Such integration streamlines healthcare workflows, improving patient care and the accuracy of diagnoses and treatment plans.

The Global Edge Computing in Healthcare Market is driven by surge in chronic diseases necessitates effective remote patient monitoring solutions. Edge computing meets this demand by efficiently handling and transmitting data from wearable devices and medical sensors, thereby empowering healthcare professionals to manage chronic conditions more effectively. Furthermore, government initiatives and funding aimed at healthcare digitization, telehealth expansion, and the adoption of EHRs are bolstering the need for edge computing infrastructure. These initiatives strive to modernize healthcare delivery, enhancing accessibility and the quality of care. Moreover, integration of edge computing with ai and machine learning are anticipated to create

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lucrative opportunities for the market. However, high initial cost and data security concerns is going to impede the overall demand for the market during the forecast period 2024-2032.

The key regions considered for the Global Edge Computing in Healthcare Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, Asia-Pacific is anticipated to witness substantial growth during the forecast period. Edge computing is transforming patient-centric healthcare in this region by enabling real-time data processing for continuous remote monitoring of patients. This facilitates healthcare providers in delivering more personalized care plans, ensuring timely interventions and improved patient outcomes. The telemedicine landscape in Asia-Pacific is expanding, with edge computing playing a pivotal role. By enabling seamless video consultations, remote diagnostics, and secure data transmission, edge computing is enhancing healthcare accessibility, particularly in remote and underserved areas. Additionally, it allows rapid analysis and transfer of large image files from diagnostic devices such as X-rays, MRIs, and CT scans, leading to swift and accurate diagnoses and treatments. Furthermore, the market in North America emerged as the largest region owing to advanced healthcare infrastructure and technological adoption.

Major market players included in this report are:

Advantech

Amazon Web Services (AWS)

Aruba Networks

Cisco Systems, Inc.

Dell Technologies, Inc.

General Electric Company

Google LLC

Hewlett Packard Enterprise Company

IBM

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Intel Corporation

Microsoft Corporation

Nokia Corporation

NVIDIA Corporation

Philips Healthcare

Siemens Healthineers

The detailed segments and sub-segment of the market are explained below:

By Offering:

- Hardware
- Software
- Services

By Application:

- Robotic Surgery
- Diagnostics
- Remote Patient Monitoring and Telehealth
- Others

By End User:

- Hospitals and Clinics
- Ambulatory Centers

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Nursing Homes and Home Care

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

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South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

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Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

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Contents

CHAPTER 1. GLOBAL EDGE COMPUTING IN HEALTHCARE MARKET EXECUTIVE SUMMARY

1.1. Global Edge Computing in Healthcare Market Size & Forecast (2022-2032)
1.2. Regional Summary
1.3. Segmental Summary
  1.3.1. By Offering
  1.3.2. By Application
  1.3.3. By End User
1.4. Key Trends
1.5. Recession Impact
1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL EDGE COMPUTING IN HEALTHCARE MARKET DEFINITION AND RESEARCH ASSUMPTIONS

2.1. Research Objective
2.2. Market Definition
2.3. Research Assumptions
  2.3.1. Inclusion & Exclusion
  2.3.2. Limitations
  2.3.3. Supply Side Analysis
    2.3.3.1. Availability
    2.3.3.2. Infrastructure
    2.3.3.3. Regulatory Environment
    2.3.3.4. Market Competition
    2.3.3.5. Economic Viability (Consumer’s Perspective)
  2.3.4. Demand Side Analysis
    2.3.4.1. Regulatory frameworks
    2.3.4.2. Technological Advancements
    2.3.4.3. Environmental Considerations
    2.3.4.4. Consumer Awareness & Acceptance
2.4. Estimation Methodology
2.5. Years Considered for the Study
2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL EDGE COMPUTING IN HEALTHCARE MARKET DYNAMICS

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3.1. Market Drivers
3.1.1. Increasing Prevalence of Chronic Diseases
3.1.2. Government Initiatives for Healthcare Digitization
3.1.3. Advancements in IoT and Wearable Devices
3.2. Market Challenges
3.2.1. Data Security Concerns
3.2.2. High Initial Costs
3.3. Market Opportunities
3.3.1. Expansion in Emerging Markets
3.3.2. Integration with AI and Machine Learning

CHAPTER 4. GLOBAL EDGE COMPUTING IN HEALTHCARE MARKET INDUSTRY ANALYSIS

4.1. Porter’s 5 Force Model
4.1.1. Bargaining Power of Suppliers
4.1.2. Bargaining Power of Buyers
4.1.3. Threat of New Entrants
4.1.4. Threat of Substitutes
4.1.5. Competitive Rivalry
4.1.6. Futuristic Approach to Porter’s 5 Force Model
4.1.7. Porter’s 5 Force Impact Analysis
4.2. PESTEL Analysis
4.2.1. Political
4.2.2. Economical
4.2.3. Social
4.2.4. Technological
4.2.5. Environmental
4.2.6. Legal
4.3. Top Investment Opportunity
4.4. Top Winning Strategies
4.5. Disruptive Trends
4.6. Industry Expert Perspective
4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL EDGE COMPUTING IN HEALTHCARE MARKET SIZE & FORECASTS BY OFFERING 2022-2032

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5.1. Segment Dashboard
5.2. Global Edge Computing in Healthcare Market: Offering Revenue Trend Analysis, 2022 & 2032 (USD Billion)
5.2.1. Hardware
5.2.2. Software
5.2.3. Services

CHAPTER 6. GLOBAL EDGE COMPUTING IN HEALTHCARE MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

6.1. Segment Dashboard
6.2. Global Edge Computing in Healthcare Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Billion)
6.2.1. Robotic Surgery
6.2.2. Diagnostics
6.2.3. Remote Patient Monitoring and Telehealth
6.2.4. Others

CHAPTER 7. GLOBAL EDGE COMPUTING IN HEALTHCARE MARKET SIZE & FORECASTS BY END USER 2022-2032

7.1. Segment Dashboard
7.2. Global Edge Computing in Healthcare Market: End User Revenue Trend Analysis, 2022 & 2032 (USD Billion)
7.2.1. Hospitals and Clinics
7.2.2. Ambulatory Centers
7.2.3. Nursing Homes and Home Care
7.2.4. Others

CHAPTER 8. GLOBAL EDGE COMPUTING IN HEALTHCARE MARKET SIZE & FORECASTS BY REGION 2022-2032

8.1. North America Edge Computing in Healthcare Market
8.1.1. U.S. Edge Computing in Healthcare Market
8.1.1.1. Offering breakdown size & forecasts, 2022-2032
8.1.1.2. Application breakdown size & forecasts, 2022-2032
8.1.1.3. End User breakdown size & forecasts, 2022-2032
8.1.2. Canada Edge Computing in Healthcare Market
8.2. Europe Edge Computing in Healthcare Market

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8.2.1. U.K. Edge Computing in Healthcare Market
8.2.2. Germany Edge Computing in Healthcare Market
8.2.3. France Edge Computing in Healthcare Market
8.2.4. Spain Edge Computing in Healthcare Market
8.2.5. Italy Edge Computing in Healthcare Market
8.2.6. Rest of Europe Edge Computing in Healthcare Market
8.3. Asia-Pacific Edge Computing in Healthcare Market
8.3.1. China Edge Computing in Healthcare Market
8.3.2. India Edge Computing in Healthcare Market
8.3.3. Japan Edge Computing in Healthcare Market
8.3.4. Australia Edge Computing in Healthcare Market
8.3.5. South Korea Edge Computing in Healthcare Market
8.3.6. Rest of Asia Pacific Edge Computing in Healthcare Market
8.4. Latin America Edge Computing in Healthcare Market
8.4.1. Brazil Edge Computing in Healthcare Market
8.4.2. Mexico Edge Computing in Healthcare Market
8.4.3. Rest of Latin America Edge Computing in Healthcare Market
8.5. Middle East & Africa Edge Computing in Healthcare Market
8.5.1. Saudi Arabia Edge Computing in Healthcare Market
8.5.2. South Africa Edge Computing in Healthcare Market
8.5.3. Rest of Middle East & Africa Edge Computing in Healthcare Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

9.1. Key Company SWOT Analysis
9.1.1. Company
9.1.2. Company
9.1.3. Company
9.2. Top Market Strategies
9.3. Company Profiles
9.3.1. Advantech
9.3.1.1. Key Information
9.3.1.2. Overview
9.3.1.3. Financial (Subject to Data Availability)
9.3.1.4. Product Summary
9.3.1.5. Market Strategies
9.3.2. Amazon Web Services (AWS)
9.3.3. Aruba Networks
9.3.4. Cisco Systems, Inc.

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9.3.5. Dell Technologies, Inc.
9.3.6. General Electric Company
9.3.7. Google LLC
9.3.8. Hewlett Packard Enterprise Company
9.3.9. IBM
9.3.10. Intel Corporation
9.3.11. Microsoft Corporation
9.3.12. Nokia Corporation
9.3.13. NVIDIA Corporation
9.3.14. Philips Healthcare
9.3.15. Siemens Healthineers

CHAPTER 10. RESEARCH PROCESS

10.1. Research Process
10.1.1. Data Mining
10.1.2. Analysis
10.1.3. Market Estimation
10.1.4. Validation
10.1.5. Publishing
10.2. Research Attributes

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List Of Tables

LIST OF TABLES

TABLE 1. Global Edge Computing in Healthcare Market, Report Scope
TABLE 2. Global Edge Computing in Healthcare Market Estimates & Forecasts by Region 2022-2032 (USD Billion)
TABLE 3. Global Edge Computing in Healthcare Market Estimates & Forecasts by Offering 2022-2032 (USD Billion)
TABLE 4. Global Edge Computing in Healthcare Market Estimates & Forecasts by Application 2022-2032 (USD Billion)
TABLE 5. Global Edge Computing in Healthcare Market by Segment, Estimates & Forecasts, 2022-2032 (USD Billion)
TABLE 6. Global Edge Computing in Healthcare Market by Region, Estimates & Forecasts, 2022-2032 (USD Billion)
TABLE 7. Global Edge Computing in Healthcare Market by Segment, Estimates & Forecasts, 2022-2032 (USD Billion)
TABLE 8. Global Edge Computing in Healthcare Market by Region, Estimates & Forecasts, 2022-2032 (USD Billion)
TABLE 9. Global Edge Computing in Healthcare Market by Segment, Estimates & Forecasts, 2022-2032 (USD Billion)
TABLE 10. Global Edge Computing in Healthcare Market by Region, Estimates & Forecasts, 2022-2032 (USD Billion)
TABLE 11. Global Edge Computing in Healthcare Market by Segment, Estimates & Forecasts, 2022-2032 (USD Billion)
TABLE 12. Global Edge Computing in Healthcare Market by Region, Estimates & Forecasts, 2022-2032 (USD Billion)
TABLE 13. Global Edge Computing in Healthcare Market by Segment, Estimates & Forecasts, 2022-2032 (USD Billion)
TABLE 14. Global Edge Computing in Healthcare Market by Region, Estimates & Forecasts, 2022-2032 (USD Billion)
TABLE 15. U.S. Edge Computing in Healthcare Market Estimates & Forecasts, 2022-2032 (USD Billion)
TABLE 16. U.S. Edge Computing in Healthcare Market Estimates & Forecasts by Segment 2022-2032 (USD Billion)
TABLE 17. U.S. Edge Computing in Healthcare Market Estimates & Forecasts by Segment 2022-2032 (USD Billion)
TABLE 18. Canada Edge Computing in Healthcare Market Estimates & Forecasts, 2022-2032 (USD Billion)

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TABLE 19. Canada Edge Computing in Healthcare Market Estimates & Forecasts by Segment 2022-2032 (USD Billion)
TABLE 20. Canada Edge Computing in Healthcare Market Estimates & Forecasts by Segment 2022-2032 (USD Billion)
…..
This list is not complete, the final report does contain more than 100 tables. The list may be updated in the final deliverable

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List Of Figures

LIST OF FIGURES

FIG 1. Global Edge Computing in Healthcare Market, Research Methodology
FIG 2. Global Edge Computing in Healthcare Market, Market Estimation Techniques
FIG 3. Global Market Size Estimates & Forecast Methods
FIG 4. Global Edge Computing in Healthcare Market, Key Trends 2023
FIG 5. Global Edge Computing in Healthcare Market, Growth Prospects 2022-2032
FIG 6. Global Edge Computing in Healthcare Market, Porter’s 5 Force Model
FIG 7. Global Edge Computing in Healthcare Market, PESTEL Analysis
FIG 8. Global Edge Computing in Healthcare Market, Value Chain Analysis
FIG 9. Global Edge Computing in Healthcare Market by Segment, 2022 & 2032 (USD Billion)
FIG 10. Global Edge Computing in Healthcare Market by Segment, 2022 & 2032 (USD Billion)
FIG 11. Global Edge Computing in Healthcare Market by Segment, 2022 & 2032 (USD Billion)
FIG 12. Global Edge Computing in Healthcare Market by Segment, 2022 & 2032 (USD Billion)
FIG 13. Global Edge Computing in Healthcare Market by Segment, 2022 & 2032 (USD Billion)
FIG 14. Global Edge Computing in Healthcare Market, Regional Snapshot 2022 & 2032
FIG 15. North America Edge Computing in Healthcare Market 2022 & 2032 (USD Billion)
FIG 16. Europe Edge Computing in Healthcare Market 2022 & 2032 (USD Billion)
FIG 17. Asia Pacific Edge Computing in Healthcare Market 2022 & 2032 (USD Billion)
FIG 18. Latin America Edge Computing in Healthcare Market 2022 & 2032 (USD Billion)
FIG 19. Middle East & Africa Edge Computing in Healthcare Market 2022 & 2032 (USD Billion)
FIG 20. Global Edge Computing in Healthcare Market, Company Market Share Analysis (2023)
…..
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