

Global Human Microchipping Market Size Study, by Application (Medical Identification and Monitoring, Personal Identification and Access Control, Financial Transactions, and Others), by Type (Implantable Microchips and Non-Implantable Microchips), by Technology (RFID, NFC, and Others), by End User (Healthcare, Financial Services, Retail and Logistics, Government and Law Enforcement, and Others) and Regional Forecasts 2022-2032

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Abstracts

The Global Human Microchipping Market, valued at approximately USD 1.70 billion in 2023, is projected to grow with a healthy growth rate of more than 7% over the forecast period 2024-2032. Human microchipping, which involves implanting a small RFID chip under the skin, typically in the hand, is transforming various sectors by enabling a wide range of applications. These chips can store personal information and communicate with external devices, providing functionalities such as digital keys for accessing buildings or vehicles, cashless payments, and storing medical data for emergencies. In the healthcare sector, they facilitate patient tracking and medication compliance, while in security settings, they serve as reliable means of identification and authentication. Despite its benefits, the technology raises significant ethical and privacy concerns, primarily due to its potential for tracking individuals.

Advancements in microchip technology have driven the global human microchipping market, resulting in smaller, more efficient implants capable of storing and transmitting increased data volumes. These technological improvements have enhanced the practical applications of microchips, ranging from personal identification to medical records storage and security applications. The demand for enhanced security solutions

and convenient access control across various sectors, including corporate, healthcare, and residential spaces, further propels market growth. Microchips offer secure, convenient personal identification and access control methods that are difficult to forge, providing instant verification. This demand has been amplified by the COVID-19 pandemic, which increased awareness of hygiene and security. Also, the healthcare industry is increasingly adopting human microchipping for medical monitoring and patient identification. Microchips can store vital health information, such as medical history and allergies, enabling quick access in emergencies. This capability is particularly valuable for managing chronic conditions and elderly care, where timely access to accurate medical data can improve patient outcomes. Integration with IoT devices presents a significant growth opportunity for the human microchipping market. As IoT adoption expands across various industries, microchips can enhance connectivity and data exchange, leading to more personalized and efficient services. Additionally, growing investments in research and development are likely to drive innovations in microchipping technology, creating opportunities for new applications and markets. These investments are expected to lead to improved chip functionalities, such as extended battery life and enhanced data security features. However, the market faces challenges, including privacy and ethical concerns. The idea of implanting microchips in humans raises significant ethical questions regarding surveillance, data security, and bodily autonomy. Public apprehension about the potential misuse of personal data and unauthorized tracking can hinder widespread adoption. Addressing these concerns through transparent practices, robust data protection measures, and clear regulatory frameworks is crucial for the market's growth.

North America holds the largest market share in the global human microchipping market, accounting for 40.3% in 2023, driven by technological innovations and early adoption of new technologies. The U.S. has seen the emergence of various companies offering human microchipping solutions, particularly in employee access control and healthcare settings. Asia Pacific, accounting for 20.5% of the market in 2023, is the fastest-growing region, with countries like China, Japan, and South Korea leading technological advancements and applications of microchips in payments and healthcare. However, adoption remains limited due to privacy and data security concerns.

Major market players included in this report are:

Biohax International
X Biotech
PositiveID Corporation
Microchip Technology Inc.
VeriChip Corporation
NXP Semiconductors

Stellar ID

LifeSpan BioSciences

Implantable Microchip Technologies (IMT)

NeuroVive Pharmaceutical AB

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

By Application:

- Medical Identification and Monitoring
- Personal Identification and Access Control
- Financial Transactions
- Others (Tracking, Monitoring, etc.)

By Type:

- Implantable Microchips
- Non-Implantable Microchips

By Technology:

- RFID (Radio Frequency Identification)
- NFC (Near Field Communication)
- Others (GPS, QR Codes, etc.)

By End User:

- Healthcare
- Financial Services
- Retail and Logistics
- Government and Law Enforcement
- Others

By Region:

- North America
- U.S.
- Canada
- Europe
- UK
- Germany
- France
- Spain
- Italy
- ROE
- Asia Pacific
- China
- India
- Japan

- Australia
- South Korea
- RoAPAC
- Latin America
- Brazil
- Mexico
- RoLA
- 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.
- 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.

Contents

CHAPTER 1. GLOBAL HUMAN MICROCHIPPING MARKET EXECUTIVE SUMMARY

- 1.1. Global Human Microchipping Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Application
 - 1.3.2. By Type
 - 1.3.3. By Technology
 - 1.3.4. By End User
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL HUMAN MICROCHIPPING 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 HUMAN MICROCHIPPING MARKET DYNAMICS

Global Human Microchipping Market Size Study, by Application (Medical Identification and Monitoring, Personal...

3.1. Market Drivers

- 3.1.1. Advancements in Technology
- 3.1.2. Rising Demand for Enhanced Security and Convenience
- 3.1.3. Growing Healthcare Applications

3.2. Market Challenges

- 3.2.1. Privacy and Ethical Concerns
- 3.2.2. High Price of Capital Expenditure
- 3.2.3. Data Security Concerns

3.3. Market Opportunities

- 3.3.1. Integration with IoT Devices
- 3.3.2. Increased Investment in Research and Development
- 3.3.3. Surging Product Launches in Human Microchipping Market

CHAPTER 4. GLOBAL HUMAN MICROCHIPPING 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 HUMAN MICROCHIPPING MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

5.1. Segment Dashboard

5.2. Global Human Microchipping Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. Medical Identification and Monitoring

5.2.2. Personal Identification and Access Control

5.2.3. Financial Transactions

5.2.4. Others (Tracking, Monitoring, etc.)

CHAPTER 6. GLOBAL HUMAN MICROCHIPPING MARKET SIZE & FORECASTS BY TYPE 2022-2032

6.1. Segment Dashboard

6.2. Global Human Microchipping Market: Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. Implantable Microchips

6.2.2. Non-Implantable Microchips

CHAPTER 7. GLOBAL HUMAN MICROCHIPPING MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032

7.1. Segment Dashboard

7.2. Global Human Microchipping Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Billion)

7.2.1. RFID (Radio Frequency Identification)

7.2.2. NFC (Near Field Communication)

7.2.3. Others (GPS, QR Codes, etc.)

CHAPTER 8. GLOBAL HUMAN MICROCHIPPING MARKET SIZE & FORECASTS BY END USER 2022-2032

8.1. Segment Dashboard

8.2. Global Human Microchipping Market: End User Revenue Trend Analysis, 2022 & 2032 (USD Billion)

8.2.1. Healthcare

8.2.2. Financial Services

8.2.3. Retail and Logistics

8.2.4. Government and Law Enforcement

8.2.5. Others

CHAPTER 9. GLOBAL HUMAN MICROCHIPPING MARKET SIZE & FORECASTS BY REGION 2022-2032

- 9.1. North America Human Microchipping Market
 - 9.1.1. U.S. Human Microchipping Market
 - 9.1.1.1. Application Breakdown Size & Forecasts, 2022-2032
 - 9.1.1.2. Type Breakdown Size & Forecasts, 2022-2032
 - 9.1.1.3. Technology Breakdown Size & Forecasts, 2022-2032
 - 9.1.1.4. End User Breakdown Size & Forecasts, 2022-2032
 - 9.1.2. Canada Human Microchipping Market
- 9.2. Europe Human Microchipping Market
 - 9.2.1. U.K. Human Microchipping Market
 - 9.2.2. Germany Human Microchipping Market
 - 9.2.3. France Human Microchipping Market
 - 9.2.4. Spain Human Microchipping Market
 - 9.2.5. Italy Human Microchipping Market
 - 9.2.6. Rest of Europe Human Microchipping Market
- 9.3. Asia-Pacific Human Microchipping Market
 - 9.3.1. China Human Microchipping Market
 - 9.3.2. India Human Microchipping Market
 - 9.3.3. Japan Human Microchipping Market
 - 9.3.4. Australia Human Microchipping Market
 - 9.3.5. South Korea Human Microchipping Market
 - 9.3.6. Rest of Asia Pacific Human Microchipping Market
- 9.4. Latin America Human Microchipping Market
 - 9.4.1. Brazil Human Microchipping Market
 - 9.4.2. Mexico Human Microchipping Market
 - 9.4.3. Rest of Latin America Human Microchipping Market
- 9.5. Middle East & Africa Human Microchipping Market
 - 9.5.1. Saudi Arabia Human Microchipping Market
 - 9.5.2. South Africa Human Microchipping Market
 - 9.5.3. Rest of Middle East & Africa Human Microchipping Market

CHAPTER 10. COMPETITIVE INTELLIGENCE

- 10.1. Key Company SWOT Analysis
 - 10.1.1. Company
 - 10.1.2. Company

- 10.1.3. Company
- 10.2. Top Market Strategies
- 10.3. Company Profiles
 - 10.3.1. Biohax International
 - 10.3.1.1. Key Information
 - 10.3.1.2. Overview
 - 10.3.1.3. Financial (Subject to Data Availability)
 - 10.3.1.4. Product Summary
 - 10.3.1.5. Market Strategies
 - 10.3.2. X Biotech
 - 10.3.3. PositiveID Corporation
 - 10.3.4. Microchip Technology Inc.
 - 10.3.5. VeriChip Corporation
 - 10.3.6. NXP Semiconductors
 - 10.3.7. Stellar ID
 - 10.3.8. LifeSpan BioSciences
 - 10.3.9. Implantable Microchip Technologies (IMT)
 - 10.3.10. NeuroVive Pharmaceutical AB

CHAPTER 11. RESEARCH PROCESS

- 11.1. Research Process
 - 11.1.1. Data Mining
 - 11.1.2. Analysis
 - 11.1.3. Market Estimation
 - 11.1.4. Validation
 - 11.1.5. Publishing
- 11.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Human Microchipping market, report scope

TABLE 2. Global Human Microchipping market estimates & forecasts by Region
2022-2032 (USD Billion)

TABLE 3. Global Human Microchipping market estimates & forecasts by Application
2022-2032 (USD Billion)

TABLE 4. Global Human Microchipping market estimates & forecasts by Type
2022-2032 (USD Billion)

TABLE 5. Global Human Microchipping market estimates & forecasts by Technology
2022-2032 (USD Billion)

TABLE 6. Global Human Microchipping market estimates & forecasts by End User
2022-2032 (USD Billion)

TABLE 7. Global Human Microchipping market by segment, estimates & forecasts,
2022-2032 (USD Billion)

TABLE 8. Global Human Microchipping market by region, estimates & forecasts,
2022-2032 (USD Billion)

TABLE 9. Global Human Microchipping market by segment, estimates & forecasts,
2022-2032 (USD Billion)

TABLE 10. Global Human Microchipping market by region, estimates & forecasts,
2022-2032 (USD Billion)

TABLE 11. Global Human Microchipping market by segment, estimates & forecasts,
2022-2032 (USD Billion)

TABLE 12. Global Human Microchipping market by region, estimates & forecasts,
2022-2032 (USD Billion)

TABLE 13. Global Human Microchipping market by segment, estimates & forecasts,
2022-2032 (USD Billion)

TABLE 14. Global Human Microchipping market by region, estimates & forecasts,
2022-2032 (USD Billion)

TABLE 15. U.S. Human Microchipping market estimates & forecasts, 2022-2032 (USD
Billion)

TABLE 16. U.S. Human Microchipping market estimates & forecasts by segment
2022-2032 (USD Billion)

TABLE 17. U.S. Human Microchipping market estimates & forecasts by segment
2022-2032 (USD Billion)

TABLE 18. Canada Human Microchipping market estimates & forecasts, 2022-2032
(USD Billion)

TABLE 19. Canada Human Microchipping market estimates & forecasts by segment
2022-2032 (USD Billion)

TABLE 20. Canada Human Microchipping market estimates & forecasts by segment
2022-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

- FIG 1. Global Human Microchipping market, research methodology
- FIG 2. Global Human Microchipping market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Human Microchipping market, key trends 2023
- FIG 5. Global Human Microchipping market, growth prospects 2022-2032
- FIG 6. Global Human Microchipping market, porters 5 force model
- FIG 7. Global Human Microchipping market, PESTEL analysis
- FIG 8. Global Human Microchipping market, value chain analysis
- FIG 9. Global Human Microchipping market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Human Microchipping market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Human Microchipping market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Human Microchipping market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Human Microchipping market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Human Microchipping market, regional snapshot 2022 & 2032
- FIG 15. North America Human Microchipping market 2022 & 2032 (USD Billion)
- FIG 16. Europe Human Microchipping market 2022 & 2032 (USD Billion)
- FIG 17. Asia Pacific Human Microchipping market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Human Microchipping market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Human Microchipping market 2022 & 2032 (USD Billion)
- FIG 20. Global Human Microchipping market, company market share analysis (2023)

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