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Global Intelligent Card Credentials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Intelligent Card Credentials market size is expected to reach $ 4029 million by 2032, rising at a market growth of 3.1% CAGR during the forecast period (2026-2032).

Intelligent Card Credentials refer to advanced identity authentication solutions that integrate smart card technologies, embedded chips, encryption algorithms, and secure credential management functions. These solutions enable secure identity verification, access authorization, and transaction authentication by storing and processing encrypted user information. Compared with traditional identification cards, intelligent card credentials provide higher security, reliability, and management efficiency, and are widely applied in financial services, government and public utilities, transportation systems, enterprise security, and other scenarios requiring trusted identity authentication.

Key Summary

Standard authentication cards support basic identity verification needs

Secure authentication cards improve data protection capabilities

Biometric authentication cards enhance identity security levels

BFSI remains a key application area

Government and transportation expand intelligent credential adoption

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Market Trends

The Intelligent Card Credentials industry is moving toward higher security, multi-functional integration, and digital identity management. Traditional authentication methods are gradually being upgraded through advanced chips, encryption technologies, and biometric verification functions to improve identity protection and authentication efficiency.

Another important trend is the combination of intelligent credentials with emerging digital technologies. Cloud-based identity platforms, mobile authentication, and biometric recognition are increasingly integrated with smart credential systems, enabling more convenient and secure identity management across different application environments.

Market Dynamics

Drivers

The increasing demand for secure identity authentication is a major driver of Intelligent Card Credentials market growth. With the rise of cybersecurity threats, unauthorized access risks, and identity fraud, organizations are adopting advanced credential solutions to strengthen security management and protect sensitive information.

In addition, the expansion of digital government services, financial technology applications, smart transportation systems, and enterprise security requirements is creating continuous demand for intelligent authentication solutions. Intelligent card credentials provide reliable identity verification and access management capabilities across multiple industries.

Restraints

The market faces challenges related to implementation costs, system compatibility, and competition from alternative authentication technologies. Deploying intelligent credential systems requires investment in card readers, authentication platforms, and supporting infrastructure, which may increase adoption barriers.

Meanwhile, mobile credentials, biometric-only authentication, and software-based digital identity solutions are developing rapidly, creating competitive pressure on traditional

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smart card credential systems.

Opportunities

The growth of digital identity systems, smart cities, and secure transaction environments provides significant opportunities for intelligent card credentials. Government digitalization, enterprise security upgrades, and financial service modernization are expected to continue driving demand.

The combination of smart cards with biometric technologies, secure elements, and cloud-based identity management platforms may further improve functionality and expand applications in new authentication scenarios.

Challenges

The main challenge for the industry is maintaining competitiveness in a rapidly evolving identity authentication market. Manufacturers need to continuously improve chip security, encryption performance, and system integration capabilities.

Another challenge is balancing security requirements with user convenience. Future intelligent credential solutions need to provide stronger protection while maintaining simple operation and compatibility with different application environments.

Industry Chain Analysis

The Intelligent Card Credentials industry chain includes upstream semiconductor suppliers, smart card manufacturers, security technology providers, and downstream application users. Upstream companies provide chips, secure elements, encryption technologies, and card materials. Midstream companies are responsible for card manufacturing, personalization, security integration, and authentication system development. Downstream users include financial institutions, governments, transportation operators, enterprises, and public service organizations.

The industry relies on semiconductor technology, cybersecurity capabilities, and identity management platforms. Companies with integrated hardware and software capabilities have stronger competitive advantages.

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Value Chain Analysis

The value chain of Intelligent Card Credentials covers chip design, card manufacturing, security integration, personalization services, system deployment, and maintenance. Companies create value by improving authentication reliability, security performance, and application compatibility.

With the development of digital identity ecosystems, the value chain is gradually shifting from traditional card manufacturing toward integrated identity authentication solutions combining hardware security, software platforms, and data management capabilities.

Segment Insights

Classification Analysis

Intelligent Card Credentials can be classified into Standard Authentication Cards, Secure Authentication Cards, and Biometric Authentication Cards according to security level and authentication technology. Standard Authentication Cards mainly provide basic identity verification and access authorization functions and are suitable for scenarios with relatively conventional security requirements. Secure Authentication Cards integrate stronger encryption, secure chips, key management, and anti-counterfeiting technologies, making them more suitable for applications involving sensitive information and higher security requirements. Biometric Authentication Cards combine smart card credentials with fingerprint or other biometric technologies, enabling stronger user identity binding and multi-factor authentication.

Application Analysis

By application, Intelligent Card Credentials are mainly used in BFSI, Government & Public Utilities, Transportation, and other sectors. In BFSI, intelligent authentication cards are used for customer identification, payment authorization, employee access, and secure transaction verification. Government and public utility applications include identity credentials, employee authentication, access control, and public service management, where security and credential reliability are particularly important. In transportation, these products are used in transit payment, passenger identification, employee credentials, and access management. Other applications include healthcare, education, enterprise security, telecommunications, and commercial facilities.

Downstream Market Opportunities

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Intelligent Card Credentials are widely used in banking, financial services, insurance, government identity systems, public utilities, transportation management, and enterprise security applications. BFSI applications represent an important market due to strict requirements for secure authentication and transaction protection.

Government and transportation sectors also provide significant opportunities as digital identity systems, smart transportation networks, and public service modernization continue to expand.

Regional Insights

North America and Europe are important markets for intelligent card credentials due to mature digital identity infrastructure, advanced security technologies, and widespread adoption in financial and government applications. These regions have strong demand for secure authentication and access management solutions.

Asia-Pacific is expected to experience continued growth driven by digital transformation, smart city development, and expanding financial and transportation applications. China, Japan, and South Korea are actively developing intelligent identity systems across public and commercial sectors.

Competitive Landscape Analysis

The Intelligent Card Credentials market includes smart card manufacturers, semiconductor companies, security solution providers, and identity technology companies. Leading companies compete through chip security, encryption technologies, manufacturing capabilities, and integrated authentication solutions.

Representative companies include Thales, IDEMIA, Giesecke+Devrient, HID Global, Entrust, NXP Semiconductors, Infineon Technologies, STMicroelectronics, Samsung Electronics, and other identity security solution providers.

Report Scope

This report studies the global Intelligent Card Credentials demand, key companies, and

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key regions.

This report is a detailed and comprehensive analysis of the world market for Intelligent Card Credentials, and provides market size (US$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Intelligent Card Credentials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Intelligent Card Credentials total market, 2021-2032, (USD Million)

Global Intelligent Card Credentials total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Intelligent Card Credentials total market, key domestic companies, and share, (USD Million)

Global Intelligent Card Credentials revenue by player, revenue and market share 2021-2026, (USD Million)

Global Intelligent Card Credentials total market by Type, CAGR, 2021-2032, (USD Million)

Global Intelligent Card Credentials total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Intelligent Card Credentials market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thales, IDEMIA, Giesecke+Devrient (G+D), HID Global, Entrust, NXP Semiconductors, Infineon Technologies, STMicroelectronics, Samsung Electronics, Sony Semiconductor Solutions, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

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Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Intelligent Card Credentials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Intelligent Card Credentials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Intelligent Card Credentials Market, Segmentation by Type:

Contact

Contactless

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Global Intelligent Card Credentials Market, Segmentation by Function:

Memory Smart Card

Microprocessor Smart Card

Secure Element Smart Card

Global Intelligent Card Credentials Market, Segmentation by Safety:

Basic Security Smart Card

Enhanced Security Smart Card

High Security Smart Card

Global Intelligent Card Credentials Market, Segmentation by Application:

BFSI

Government & Public Utilities

Transportation

Others

Companies Profiled:

Thales

IDEMIA

Giesecke+Devrient (G+D)

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HID Global

Entrust

NXP Semiconductors

Infineon Technologies

STMicroelectronics

Samsung Electronics

Sony Semiconductor Solutions

CardLogix

Identiv

Watchdata Technologies

Eastcompeace Technology

Hengbao

Feitian Technologies

CPI Card Group

Keesing Technologies

Key Questions Answered

1. How big is the global Intelligent Card Credentials market?
2. What is the demand of the global Intelligent Card Credentials market?
3. What is the year over year growth of the global Intelligent Card Credentials market?
4. What is the total value of the global Intelligent Card Credentials market?
5. Who are the Major Players in the global Intelligent Card Credentials market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 Intelligent Card Credentials Introduction
1.2 World Intelligent Card Credentials Market Size & Forecast (2021 & 2025 & 2032)
1.3 World Intelligent Card Credentials Total Market by Region (by Headquarter Location)
  1.3.1 World Intelligent Card Credentials Market Size by Region (2021-2032), (by Headquarter Location)
  1.3.2 United States Based Company Intelligent Card Credentials Revenue (2021-2032)
  1.3.3 China Based Company Intelligent Card Credentials Revenue (2021-2032)
  1.3.4 Europe Based Company Intelligent Card Credentials Revenue (2021-2032)
  1.3.5 Japan Based Company Intelligent Card Credentials Revenue (2021-2032)
  1.3.6 South Korea Based Company Intelligent Card Credentials Revenue (2021-2032)
  1.3.7 ASEAN Based Company Intelligent Card Credentials Revenue (2021-2032)
  1.3.8 India Based Company Intelligent Card Credentials Revenue (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Intelligent Card Credentials Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Major Market Trends

2 DEMAND SUMMARY

2.1 World Intelligent Card Credentials Consumption Value (2021-2032)
2.2 World Intelligent Card Credentials Consumption Value by Region
  2.2.1 World Intelligent Card Credentials Consumption Value by Region (2021-2026)
  2.2.2 World Intelligent Card Credentials Consumption Value Forecast by Region (2027-2032)
2.3 United States Intelligent Card Credentials Consumption Value (2021-2032)
2.4 China Intelligent Card Credentials Consumption Value (2021-2032)
2.5 Europe Intelligent Card Credentials Consumption Value (2021-2032)
2.6 Japan Intelligent Card Credentials Consumption Value (2021-2032)
2.7 South Korea Intelligent Card Credentials Consumption Value (2021-2032)
2.8 ASEAN Intelligent Card Credentials Consumption Value (2021-2032)
2.9 India Intelligent Card Credentials Consumption Value (2021-2032)

3 WORLD INTELLIGENT CARD CREDENTIALS COMPANIES COMPETITIVE

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ANALYSIS

3.1 World Intelligent Card Credentials Revenue by Player (2021-2026)
3.2 Industry Rank and Concentration Rate (CR)
  3.2.1 Global Intelligent Card Credentials Industry Rank of Major Players
  3.2.2 Global Concentration Ratios (CR4) for Intelligent Card Credentials in 2025
  3.2.3 Global Concentration Ratios (CR8) for Intelligent Card Credentials in 2025
3.3 Intelligent Card Credentials Company Evaluation Quadrant
3.4 Intelligent Card Credentials Market: Overall Company Footprint Analysis
  3.4.1 Intelligent Card Credentials Market: Region Footprint
  3.4.2 Intelligent Card Credentials Market: Company Product Type Footprint
  3.4.3 Intelligent Card Credentials Market: Company Product Application Footprint
3.5 Competitive Environment
  3.5.1 Historical Structure of the Industry
  3.5.2 Barriers of Market Entry
  3.5.3 Factors of Competition
3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

4.1 United States VS China: Intelligent Card Credentials Revenue Comparison (by Headquarter Location)
  4.1.1 United States VS China: Intelligent Card Credentials Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
  4.1.2 United States VS China: Intelligent Card Credentials Revenue Market Share Comparison (2021 & 2025 & 2032)
4.2 United States Based Companies VS China Based Companies: Intelligent Card Credentials Consumption Value Comparison
  4.2.1 United States VS China: Intelligent Card Credentials Consumption Value Comparison (2021 & 2025 & 2032)
  4.2.2 United States VS China: Intelligent Card Credentials Consumption Value Market Share Comparison (2021 & 2025 & 2032)
4.3 United States Based Intelligent Card Credentials Companies and Market Share, 2021-2026
  4.3.1 United States Based Intelligent Card Credentials Companies, Headquarters (States, Country)
  4.3.2 United States Based Companies Intelligent Card Credentials Revenue, (2021-2026)

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4.4 China Based Companies Intelligent Card Credentials Revenue and Market Share, 2021-2026
4.4.1 China Based Intelligent Card Credentials Companies, Company Headquarters (Province, Country)
4.4.2 China Based Companies Intelligent Card Credentials Revenue, (2021-2026)
4.5 Rest of World Based Intelligent Card Credentials Companies and Market Share, 2021-2026
4.5.1 Rest of World Based Intelligent Card Credentials Companies, Headquarters (Province, Country)
4.5.2 Rest of World Based Companies Intelligent Card Credentials Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Intelligent Card Credentials Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Contact
5.2.2 Contactless
5.3 Market Segment by Type
5.3.1 World Intelligent Card Credentials Market Size by Type (2021-2026)
5.3.2 World Intelligent Card Credentials Market Size by Type (2027-2032)
5.3.3 World Intelligent Card Credentials Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY FUNCTION

6.1 World Intelligent Card Credentials Market Size Overview by Function: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Function
6.2.1 Memory Smart Card
6.2.2 Microprocessor Smart Card
6.2.3 Secure Element Smart Card
6.3 Market Segment by Function
6.3.1 World Intelligent Card Credentials Market Size by Function (2021-2026)
6.3.2 World Intelligent Card Credentials Market Size by Function (2027-2032)
6.3.3 World Intelligent Card Credentials Market Size Market Share by Function (2027-2032)

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7 MARKET ANALYSIS BY SAFETY

7.1 World Intelligent Card Credentials Market Size Overview by Safety: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Safety
  7.2.1 Basic Security Smart Card
  7.2.2 Enhanced Security Smart Card
  7.2.3 High Security Smart Card
7.3 Market Segment by Safety
  7.3.1 World Intelligent Card Credentials Market Size by Safety (2021-2026)
  7.3.2 World Intelligent Card Credentials Market Size by Safety (2027-2032)
  7.3.3 World Intelligent Card Credentials Market Size Market Share by Safety (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Intelligent Card Credentials Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
  8.2.1 BFSI
  8.2.2 Government & Public Utilities
  8.2.3 Transportation
  8.2.4 Others
8.3 Market Segment by Application
  8.3.1 World Intelligent Card Credentials Market Size by Application (2021-2026)
  8.3.2 World Intelligent Card Credentials Market Size by Application (2027-2032)
  8.3.3 World Intelligent Card Credentials Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 Thales
  9.1.1 Thales Details
  9.1.2 Thales Major Business
  9.1.3 Thales Intelligent Card Credentials Product and Services
  9.1.4 Thales Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
  9.1.5 Thales Recent Developments/Updates
  9.1.6 Thales Competitive Strengths & Weaknesses

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info@marketpublishers.com

9.2 IDEMIA
9.2.1 IDEMIA Details
9.2.2 IDEMIA Major Business
9.2.3 IDEMIA Intelligent Card Credentials Product and Services
9.2.4 IDEMIA Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.2.5 IDEMIA Recent Developments/Updates
9.2.6 IDEMIA Competitive Strengths & Weaknesses
9.3 Giesecke+Devrient (G+D)
9.3.1 Giesecke+Devrient (G+D) Details
9.3.2 Giesecke+Devrient (G+D) Major Business
9.3.3 Giesecke+Devrient (G+D) Intelligent Card Credentials Product and Services
9.3.4 Giesecke+Devrient (G+D) Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.3.5 Giesecke+Devrient (G+D) Recent Developments/Updates
9.3.6 Giesecke+Devrient (G+D) Competitive Strengths & Weaknesses
9.4 HID Global
9.4.1 HID Global Details
9.4.2 HID Global Major Business
9.4.3 HID Global Intelligent Card Credentials Product and Services
9.4.4 HID Global Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.4.5 HID Global Recent Developments/Updates
9.4.6 HID Global Competitive Strengths & Weaknesses
9.5 Entrust
9.5.1 Entrust Details
9.5.2 Entrust Major Business
9.5.3 Entrust Intelligent Card Credentials Product and Services
9.5.4 Entrust Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.5.5 Entrust Recent Developments/Updates
9.5.6 Entrust Competitive Strengths & Weaknesses
9.6 NXP Semiconductors
9.6.1 NXP Semiconductors Details
9.6.2 NXP Semiconductors Major Business
9.6.3 NXP Semiconductors Intelligent Card Credentials Product and Services
9.6.4 NXP Semiconductors Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.6.5 NXP Semiconductors Recent Developments/Updates

+357 96 030922
info@marketpublishers.com

9.6.6 NXP Semiconductors Competitive Strengths & Weaknesses
9.7 Infineon Technologies
9.7.1 Infineon Technologies Details
9.7.2 Infineon Technologies Major Business
9.7.3 Infineon Technologies Intelligent Card Credentials Product and Services
9.7.4 Infineon Technologies Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.7.5 Infineon Technologies Recent Developments/Updates
9.7.6 Infineon Technologies Competitive Strengths & Weaknesses
9.8 STMicroelectronics
9.8.1 STMicroelectronics Details
9.8.2 STMicroelectronics Major Business
9.8.3 STMicroelectronics Intelligent Card Credentials Product and Services
9.8.4 STMicroelectronics Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.8.5 STMicroelectronics Recent Developments/Updates
9.8.6 STMicroelectronics Competitive Strengths & Weaknesses
9.9 Samsung Electronics
9.9.1 Samsung Electronics Details
9.9.2 Samsung Electronics Major Business
9.9.3 Samsung Electronics Intelligent Card Credentials Product and Services
9.9.4 Samsung Electronics Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.9.5 Samsung Electronics Recent Developments/Updates
9.9.6 Samsung Electronics Competitive Strengths & Weaknesses
9.10 Sony Semiconductor Solutions
9.10.1 Sony Semiconductor Solutions Details
9.10.2 Sony Semiconductor Solutions Major Business
9.10.3 Sony Semiconductor Solutions Intelligent Card Credentials Product and Services
9.10.4 Sony Semiconductor Solutions Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.10.5 Sony Semiconductor Solutions Recent Developments/Updates
9.10.6 Sony Semiconductor Solutions Competitive Strengths & Weaknesses
9.11 CardLogix
9.11.1 CardLogix Details
9.11.2 CardLogix Major Business
9.11.3 CardLogix Intelligent Card Credentials Product and Services
9.11.4 CardLogix Intelligent Card Credentials Revenue, Gross Margin and Market

+357 96 030922
info@marketpublishers.com

Share (2021-2026)
9.11.5 CardLogix Recent Developments/Updates
9.11.6 CardLogix Competitive Strengths & Weaknesses
9.12 Identiv
9.12.1 Identiv Details
9.12.2 Identiv Major Business
9.12.3 Identiv Intelligent Card Credentials Product and Services
9.12.4 Identiv Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.12.5 Identiv Recent Developments/Updates
9.12.6 Identiv Competitive Strengths & Weaknesses
9.13 Watchdata Technologies
9.13.1 Watchdata Technologies Details
9.13.2 Watchdata Technologies Major Business
9.13.3 Watchdata Technologies Intelligent Card Credentials Product and Services
9.13.4 Watchdata Technologies Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.13.5 Watchdata Technologies Recent Developments/Updates
9.13.6 Watchdata Technologies Competitive Strengths & Weaknesses
9.14 Eastcompeace Technology
9.14.1 Eastcompeace Technology Details
9.14.2 Eastcompeace Technology Major Business
9.14.3 Eastcompeace Technology Intelligent Card Credentials Product and Services
9.14.4 Eastcompeace Technology Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.14.5 Eastcompeace Technology Recent Developments/Updates
9.14.6 Eastcompeace Technology Competitive Strengths & Weaknesses
9.15 Hengbao
9.15.1 Hengbao Details
9.15.2 Hengbao Major Business
9.15.3 Hengbao Intelligent Card Credentials Product and Services
9.15.4 Hengbao Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.15.5 Hengbao Recent Developments/Updates
9.15.6 Hengbao Competitive Strengths & Weaknesses
9.16 Feitian Technologies
9.16.1 Feitian Technologies Details
9.16.2 Feitian Technologies Major Business
9.16.3 Feitian Technologies Intelligent Card Credentials Product and Services

+357 96 030922
info@marketpublishers.com

9.16.4 Feitian Technologies Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.16.5 Feitian Technologies Recent Developments/Updates
9.16.6 Feitian Technologies Competitive Strengths & Weaknesses
9.17 CPI Card Group
9.17.1 CPI Card Group Details
9.17.2 CPI Card Group Major Business
9.17.3 CPI Card Group Intelligent Card Credentials Product and Services
9.17.4 CPI Card Group Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.17.5 CPI Card Group Recent Developments/Updates
9.17.6 CPI Card Group Competitive Strengths & Weaknesses
9.18 Keesing Technologies
9.18.1 Keesing Technologies Details
9.18.2 Keesing Technologies Major Business
9.18.3 Keesing Technologies Intelligent Card Credentials Product and Services
9.18.4 Keesing Technologies Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026)
9.18.5 Keesing Technologies Recent Developments/Updates
9.18.6 Keesing Technologies Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Intelligent Card Credentials Industry Chain
10.2 Intelligent Card Credentials Upstream Analysis
10.3 Intelligent Card Credentials Midstream Analysis
10.4 Intelligent Card Credentials Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. World Intelligent Card Credentials Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)
Table 2. World Intelligent Card Credentials Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)
Table 3. World Intelligent Card Credentials Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)
Table 4. World Intelligent Card Credentials Revenue Market Share by Region (2021-2026), (by Headquarter Location)
Table 5. World Intelligent Card Credentials Revenue Market Share by Region (2027-2032), (by Headquarter Location)
Table 6. Major Market Trends
Table 7. World Intelligent Card Credentials Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)
Table 8. World Intelligent Card Credentials Consumption Value by Region (2021-2026) & (USD Million)
Table 9. World Intelligent Card Credentials Consumption Value Forecast by Region (2027-2032) & (USD Million)
Table 10. World Intelligent Card Credentials Revenue by Player (2021-2026) & (USD Million)
Table 11. Revenue Market Share of Key Intelligent Card Credentials Players in 2025
Table 12. World Intelligent Card Credentials Industry Rank of Major Player, Based on Revenue in 2025
Table 13. Global Intelligent Card Credentials Company Evaluation Quadrant
Table 14. Head Office of Key Intelligent Card Credentials Players
Table 15. Intelligent Card Credentials Market: Company Product Type Footprint
Table 16. Intelligent Card Credentials Market: Company Product Application Footprint
Table 17. Intelligent Card Credentials Mergers & Acquisitions Activity
Table 18. United States VS China Intelligent Card Credentials Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 19. United States VS China Intelligent Card Credentials Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 20. United States Based Intelligent Card Credentials Companies, Headquarters (States, Country)
Table 21. United States Based Companies Intelligent Card Credentials Revenue, (2021-2026) & (USD Million)

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Table 22. United States Based Companies Intelligent Card Credentials Revenue Market Share (2021-2026)
Table 23. China Based Intelligent Card Credentials Companies, Headquarters (Province, Country)
Table 24. China Based Companies Intelligent Card Credentials Revenue, (2021-2026) & (USD Million)
Table 25. China Based Companies Intelligent Card Credentials Revenue Market Share (2021-2026)
Table 26. Rest of World Based Intelligent Card Credentials Companies, Headquarters (Province, Country)
Table 27. Rest of World Based Companies Intelligent Card Credentials Revenue (2021-2026) & (USD Million)
Table 28. Rest of World Based Companies Intelligent Card Credentials Revenue Market Share (2021-2026)
Table 29. World Intelligent Card Credentials Market Size by Type, (USD Million), 2021 & 2025 & 2032
Table 30. World Intelligent Card Credentials Market Size Value by Type (2021-2026) & (USD Million)
Table 31. World Intelligent Card Credentials Market Size by Type (2027-2032) & (USD Million)
Table 32. World Intelligent Card Credentials Market Size by Function, (USD Million), 2021 & 2025 & 2032
Table 33. World Intelligent Card Credentials Market Size Value by Function (2021-2026) & (USD Million)
Table 34. World Intelligent Card Credentials Market Size by Function (2027-2032) & (USD Million)
Table 35. World Intelligent Card Credentials Market Size by Safety, (USD Million), 2021 & 2025 & 2032
Table 36. World Intelligent Card Credentials Market Size Value by Safety (2021-2026) & (USD Million)
Table 37. World Intelligent Card Credentials Market Size by Safety (2027-2032) & (USD Million)
Table 38. World Intelligent Card Credentials Market Size by Application, (USD Million), 2021 & 2025 & 2032
Table 39. World Intelligent Card Credentials Market Size by Application (2021-2026) & (USD Million)
Table 40. World Intelligent Card Credentials Market Size by Application (2027-2032) & (USD Million)
Table 41. Thales Basic Information, Manufacturing Base and Competitors

+357 96 030922
info@marketpublishers.com

Table 42. Thales Major Business
Table 43. Thales Intelligent Card Credentials Product and Services
Table 44. Thales Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 45. Thales Recent Developments/Updates
Table 46. Thales Competitive Strengths & Weaknesses
Table 47. IDEMIA Basic Information, Manufacturing Base and Competitors
Table 48. IDEMIA Major Business
Table 49. IDEMIA Intelligent Card Credentials Product and Services
Table 50. IDEMIA Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 51. IDEMIA Recent Developments/Updates
Table 52. IDEMIA Competitive Strengths & Weaknesses
Table 53. Giesecke+Devrient (G+D) Basic Information, Manufacturing Base and Competitors
Table 54. Giesecke+Devrient (G+D) Major Business
Table 55. Giesecke+Devrient (G+D) Intelligent Card Credentials Product and Services
Table 56. Giesecke+Devrient (G+D) Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 57. Giesecke+Devrient (G+D) Recent Developments/Updates
Table 58. Giesecke+Devrient (G+D) Competitive Strengths & Weaknesses
Table 59. HID Global Basic Information, Manufacturing Base and Competitors
Table 60. HID Global Major Business
Table 61. HID Global Intelligent Card Credentials Product and Services
Table 62. HID Global Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 63. HID Global Recent Developments/Updates
Table 64. HID Global Competitive Strengths & Weaknesses
Table 65. Entrust Basic Information, Manufacturing Base and Competitors
Table 66. Entrust Major Business
Table 67. Entrust Intelligent Card Credentials Product and Services
Table 68. Entrust Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 69. Entrust Recent Developments/Updates
Table 70. Entrust Competitive Strengths & Weaknesses
Table 71. NXP Semiconductors Basic Information, Manufacturing Base and Competitors
Table 72. NXP Semiconductors Major Business
Table 73. NXP Semiconductors Intelligent Card Credentials Product and Services

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Table 74. NXP Semiconductors Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 75. NXP Semiconductors Recent Developments/Updates
Table 76. NXP Semiconductors Competitive Strengths & Weaknesses
Table 77. Infineon Technologies Basic Information, Manufacturing Base and Competitors
Table 78. Infineon Technologies Major Business
Table 79. Infineon Technologies Intelligent Card Credentials Product and Services
Table 80. Infineon Technologies Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 81. Infineon Technologies Recent Developments/Updates
Table 82. Infineon Technologies Competitive Strengths & Weaknesses
Table 83. STMicroelectronics Basic Information, Manufacturing Base and Competitors
Table 84. STMicroelectronics Major Business
Table 85. STMicroelectronics Intelligent Card Credentials Product and Services
Table 86. STMicroelectronics Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 87. STMicroelectronics Recent Developments/Updates
Table 88. STMicroelectronics Competitive Strengths & Weaknesses
Table 89. Samsung Electronics Basic Information, Manufacturing Base and Competitors
Table 90. Samsung Electronics Major Business
Table 91. Samsung Electronics Intelligent Card Credentials Product and Services
Table 92. Samsung Electronics Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 93. Samsung Electronics Recent Developments/Updates
Table 94. Samsung Electronics Competitive Strengths & Weaknesses
Table 95. Sony Semiconductor Solutions Basic Information, Manufacturing Base and Competitors
Table 96. Sony Semiconductor Solutions Major Business
Table 97. Sony Semiconductor Solutions Intelligent Card Credentials Product and Services
Table 98. Sony Semiconductor Solutions Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 99. Sony Semiconductor Solutions Recent Developments/Updates
Table 100. Sony Semiconductor Solutions Competitive Strengths & Weaknesses
Table 101. CardLogix Basic Information, Manufacturing Base and Competitors
Table 102. CardLogix Major Business
Table 103. CardLogix Intelligent Card Credentials Product and Services
Table 104. CardLogix Intelligent Card Credentials Revenue, Gross Margin and Market

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Share (2021-2026) & (USD Million)
Table 105. CardLogix Recent Developments/Updates
Table 106. CardLogix Competitive Strengths & Weaknesses
Table 107. Identiv Basic Information, Manufacturing Base and Competitors
Table 108. Identiv Major Business
Table 109. Identiv Intelligent Card Credentials Product and Services
Table 110. Identiv Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 111. Identiv Recent Developments/Updates
Table 112. Identiv Competitive Strengths & Weaknesses
Table 113. Watchdata Technologies Basic Information, Manufacturing Base and Competitors
Table 114. Watchdata Technologies Major Business
Table 115. Watchdata Technologies Intelligent Card Credentials Product and Services
Table 116. Watchdata Technologies Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 117. Watchdata Technologies Recent Developments/Updates
Table 118. Watchdata Technologies Competitive Strengths & Weaknesses
Table 119. Eastcompeace Technology Basic Information, Manufacturing Base and Competitors
Table 120. Eastcompeace Technology Major Business
Table 121. Eastcompeace Technology Intelligent Card Credentials Product and Services
Table 122. Eastcompeace Technology Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 123. Eastcompeace Technology Recent Developments/Updates
Table 124. Eastcompeace Technology Competitive Strengths & Weaknesses
Table 125. Hengbao Basic Information, Manufacturing Base and Competitors
Table 126. Hengbao Major Business
Table 127. Hengbao Intelligent Card Credentials Product and Services
Table 128. Hengbao Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 129. Hengbao Recent Developments/Updates
Table 130. Hengbao Competitive Strengths & Weaknesses
Table 131. Feitian Technologies Basic Information, Manufacturing Base and Competitors
Table 132. Feitian Technologies Major Business
Table 133. Feitian Technologies Intelligent Card Credentials Product and Services
Table 134. Feitian Technologies Intelligent Card Credentials Revenue, Gross Margin

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and Market Share (2021-2026) & (USD Million)
Table 135. Feitian Technologies Recent Developments/Updates
Table 136. Feitian Technologies Competitive Strengths & Weaknesses
Table 137. CPI Card Group Basic Information, Manufacturing Base and Competitors
Table 138. CPI Card Group Major Business
Table 139. CPI Card Group Intelligent Card Credentials Product and Services
Table 140. CPI Card Group Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 141. CPI Card Group Recent Developments/Updates
Table 142. CPI Card Group Competitive Strengths & Weaknesses
Table 143. Keesing Technologies Basic Information, Manufacturing Base and Competitors
Table 144. Keesing Technologies Major Business
Table 145. Keesing Technologies Intelligent Card Credentials Product and Services
Table 146. Keesing Technologies Intelligent Card Credentials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 147. Keesing Technologies Recent Developments/Updates
Table 148. Keesing Technologies Competitive Strengths & Weaknesses
Table 149. Global Key Players of Intelligent Card Credentials Upstream (Raw Materials)
Table 150. Global Intelligent Card Credentials Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. Intelligent Card Credentials Picture
Figure 2. World Intelligent Card Credentials Total Revenue: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Intelligent Card Credentials Total Revenue (2021-2032) & (USD Million)
Figure 4. World Intelligent Card Credentials Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)
Figure 5. World Intelligent Card Credentials Revenue Market Share by Region (2021-2032), (by Headquarter Location)
Figure 6. United States Based Company Intelligent Card Credentials Revenue (2021-2032) & (USD Million)
Figure 7. China Based Company Intelligent Card Credentials Revenue (2021-2032) & (USD Million)
Figure 8. Europe Based Company Intelligent Card Credentials Revenue (2021-2032) & (USD Million)
Figure 9. Japan Based Company Intelligent Card Credentials Revenue (2021-2032) & (USD Million)
Figure 10. South Korea Based Company Intelligent Card Credentials Revenue (2021-2032) & (USD Million)
Figure 11. ASEAN Based Company Intelligent Card Credentials Revenue (2021-2032) & (USD Million)
Figure 12. India Based Company Intelligent Card Credentials Revenue (2021-2032) & (USD Million)
Figure 13. Intelligent Card Credentials Market Drivers
Figure 14. Factors Affecting Demand
Figure 15. World Intelligent Card Credentials Consumption Value (2021-2032) & (USD Million)
Figure 16. World Intelligent Card Credentials Consumption Value Market Share by Region (2021-2032)
Figure 17. United States Intelligent Card Credentials Consumption Value (2021-2032) & (USD Million)
Figure 18. China Intelligent Card Credentials Consumption Value (2021-2032) & (USD Million)
Figure 19. Europe Intelligent Card Credentials Consumption Value (2021-2032) & (USD Million)
Figure 20. Japan Intelligent Card Credentials Consumption Value (2021-2032) & (USD

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Million)
Figure 21. South Korea Intelligent Card Credentials Consumption Value (2021-2032) & (USD Million)
Figure 22. ASEAN Intelligent Card Credentials Consumption Value (2021-2032) & (USD Million)
Figure 23. India Intelligent Card Credentials Consumption Value (2021-2032) & (USD Million)
Figure 24. Producer Shipments of Intelligent Card Credentials by Player Revenue ($MM) and Market Share (%): 2025
Figure 25. Global Four-firm Concentration Ratios (CR4) for Intelligent Card Credentials Markets in 2025
Figure 26. Global Four-firm Concentration Ratios (CR8) for Intelligent Card Credentials Markets in 2025
Figure 27. United States VS China: Intelligent Card Credentials Revenue Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Intelligent Card Credentials Consumption Value Market Share Comparison (2021 & 2025 & 2032)
Figure 29. World Intelligent Card Credentials Market Size by Type, (USD Million), 2021 & 2025 & 2032
Figure 30. World Intelligent Card Credentials Market Size Market Share by Type in 2025
Figure 31. Contact
Figure 32. Contactless
Figure 33. World Intelligent Card Credentials Market Size Market Share by Type (2021-2032)
Figure 34. World Intelligent Card Credentials Market Size by Function, (USD Million), 2021 & 2025 & 2032
Figure 35. World Intelligent Card Credentials Market Size Market Share by Function in 2025
Figure 36. Memory Smart Card
Figure 37. Microprocessor Smart Card
Figure 38. Secure Element Smart Card
Figure 39. World Intelligent Card Credentials Market Size Market Share by Function (2021-2032)
Figure 40. World Intelligent Card Credentials Market Size by Safety, (USD Million), 2021 & 2025 & 2032
Figure 41. World Intelligent Card Credentials Market Size Market Share by Safety in 2025
Figure 42. Basic Security Smart Card
Figure 43. Enhanced Security Smart Card

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Figure 44. High Security Smart Card
Figure 45. World Intelligent Card Credentials Market Size Market Share by Safety (2021-2032)
Figure 46. World Intelligent Card Credentials Market Size by Application, (USD Million), 2021 & 2025 & 2032
Figure 47. World Intelligent Card Credentials Market Size Market Share by Application in 2025
Figure 48. BFSI
Figure 49. Government & Public Utilities
Figure 50. Transportation
Figure 51. Others
Figure 52. World Intelligent Card Credentials Market Size Market Share by Application (2021-2032)
Figure 53. Intelligent Card Credentials Industrial Chain
Figure 54. Methodology
Figure 55. Research Process and Data Source

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