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Global Passive RFID Sensor Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G13841BCEA0AEN.html
Date: November 2026
Pages: 234
Price: US$ 4,480.00 (Single User License)
ID: G13841BCEA0AEN

Abstracts

The global Passive RFID Sensor market size is expected to reach $ 390 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

Passive RFID Sensor refers to a class of wireless sensing devices that integrate radio-frequency identification with physical, environmental, or status sensing and obtain the energy required for measurement and communication from the electromagnetic field generated by an RFID reader. The research scope focuses on battery-free RFID sensing hardware capable of returning both identification and sensing information through backscatter or load-modulation communication. Major product forms include sensor or sensor-transponder ICs with integrated sensing functions, RFID sensor-interface ICs connected to external sensing elements, sensor-enabled inlays and labels, rugged or on-metal sensor tags, and application-specific passive sensing devices. Commercial products are primarily based on UHF/RAIN RFID and HF/NFC architectures and can measure parameters such as temperature, humidity, moisture, pressure, strain, liquid level, leakage and operational status. Key product specifications typically include operating frequency and air-interface protocol, sensing range and accuracy, read distance, sensitivity, response time, environmental resistance, memory capability and form factor. Passive RFID Sensor is increasingly used in industrial equipment monitoring, energy and power systems, logistics and cold-chain operations, smart packaging, infrastructure monitoring, transportation, aerospace and healthcare applications where battery maintenance, installation complexity and large-scale sensor deployment are important considerations.

Key Findings

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In 2025, global Passive RFID Sensor production reached approximately 124.39 M Units.The average price is approximately $1.80

UHF/RAIN RFID and HF/NFC remain the two primary commercial technology architectures

Industrial equipment and power infrastructure represent the most established high-value application clusters

Europe has a dense specialist sensor technology base while China has the largest identified core supplier pool

Competition remains fragmented between platform suppliers and application-focused specialist manufacturers

Market Trends

The Passive RFID Sensor market is moving from proof-of-concept sensing toward standardized, application-oriented deployments in which sensing accuracy, reader interoperability, packaging reliability and lifecycle economics matter more than the simple ability to operate without a battery. Product development is increasingly based on reusable sensor-transponder IC platforms combined with application-specific antennas, sensing elements and packaging, allowing suppliers to shorten development cycles across temperature, moisture, strain, pressure and status-monitoring applications. At the same time, customers are increasingly evaluating Passive RFID Sensor as part of broader asset intelligence and condition-monitoring architectures rather than as standalone identification tags. In 2026, the RAIN Alliance established a dedicated RAIN Sensor Working Group to accelerate sensor-enabled RAIN RFID from early deployments toward broader adoption and to support industrial IoT, asset management, predictive maintenance and Digital Product Passport use cases, indicating that interoperability and scalable deployment are becoming more important industry priorities.

Market Dynamics

Drivers

Demand is supported by the need to monitor a growing number of assets and physical

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conditions without creating additional battery-maintenance requirements. Industrial automation, electrical equipment monitoring, cold-chain visibility and infrastructure inspection all involve distributed sensing points where wiring or battery replacement can materially increase lifecycle cost. The continuing expansion of RAIN RFID and NFC reader infrastructure also lowers deployment barriers because sensing functions can increasingly be added to existing identification environments. In addition, improving energy-harvesting efficiency, sensor-interface IC design and low-power measurement circuitry is extending the range of commercially viable sensing parameters and applications.

Restraints

The principal restraint is the fundamental power and communication limitation associated with passive operation. Measurement capability, sensing frequency and read distance remain dependent on available RF energy, reader placement, antenna orientation and surrounding materials, which can complicate deployment in metal-rich or electromagnetically difficult environments. Passive sensing products also remain more expensive than conventional RFID identification tags, while application-specific antenna design, sensor calibration and environmental packaging can increase engineering costs. For many customers, the economic case therefore depends on lifecycle maintenance savings rather than tag price alone.

Opportunities

The strongest opportunities are emerging where identity and condition information need to be associated with the same physical object. Predictive maintenance, switchgear and electrical-contact temperature monitoring, structural and concrete monitoring, pharmaceutical and food logistics, smart packaging and reusable industrial assets are particularly suitable because battery-free sensing can reduce servicing requirements across large sensor populations. Greater standardization of sensor-enabled RAIN infrastructure could also allow semiconductor suppliers, inlay manufacturers and specialized tag producers to reuse common technology platforms across multiple end markets, improving scale economics and accelerating commercialization.

Challenges

Long-term commercialization depends on solving interoperability, calibration, reliability

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and system-level return-on-investment issues. Sensor output must remain stable across different materials and operating environments, while reader networks must capture useful sensing data without creating excessive infrastructure costs. The industry also faces competition from ultra-low-power Bluetooth, Ambient IoT and other battery-free wireless architectures. Passive RFID Sensor suppliers therefore need to demonstrate advantages not only in component cost but also in the combined value of identification, sensing, standardized reader compatibility and low lifecycle maintenance.

Industry Chain Analysis

The Passive RFID Sensor industry chain starts with semiconductor design, wafer manufacturing, antenna and conductive materials, sensing elements, substrates, adhesives, encapsulation materials and RFID reader components. The technically critical upstream layer is the sensor-transponder or sensor-interface IC, which determines RF energy harvesting, protocol compatibility, memory architecture and the ability to process integrated or external sensing signals. Midstream suppliers convert these components into sensor inlays, labels, rugged tags and application-specific devices through antenna design, bonding, sensor integration, calibration, converting and protective packaging. Compared with conventional RFID tags, Passive RFID Sensor products generally contain higher engineering value because sensing accuracy and RF performance must remain reliable after integration into the final substrate and installation environment.

Value creation increasingly shifts from individual components toward integrated application performance. Semiconductor suppliers capture value through proprietary low-power sensing and RF architectures, while inlay and tag manufacturers create differentiation through antenna design, materials engineering, sensor integration, calibration and high-volume converting capability. Application-specific manufacturers add further value through environmental protection, installation design and qualification for industrial, power, infrastructure or aerospace environments. Downstream customers ultimately assess the technology on total lifecycle economics, including reader infrastructure, installation, data integration and avoided battery maintenance, meaning that system-level performance rather than hardware unit price alone increasingly determines commercial competitiveness.

Segment Insights

By technology, UHF/RAIN RFID represents the most important commercial route for

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longer-range industrial, asset-monitoring and infrastructure applications, supported by standardized reader infrastructure and the ability to interrogate multiple tags efficiently. HF/NFC remains important in shorter-range applications such as smart packaging, healthcare, product-status verification and applications where smartphone or near-field interaction is valuable. From the product-form perspective, sensor/transponder ICs form the core enabling layer, while sensor inlays and labels offer stronger scalability for high-volume applications and rugged or application-specific sensor tags capture greater value in demanding industrial environments.

By sensing parameter, temperature is currently the most broadly commercialized function because it addresses established needs across power equipment, industrial assets, logistics and product-condition monitoring and can be integrated with relatively mature low-power sensing architectures. Humidity, moisture, liquid-state and capacitive sensing are expanding in packaging, infrastructure and environmental monitoring, while pressure, strain and mechanical sensing remain more specialized and typically require greater application engineering. Multi-parameter products are an important long-term direction, although higher sensing complexity and available energy constraints mean that commercialization is likely to remain application-specific rather than immediately replacing single-parameter sensor designs.

Downstream Market Opportunities

Industrial and energy applications offer some of the clearest opportunities for Passive RFID Sensor because the economic benefit of avoiding battery maintenance rises with the number, lifetime and accessibility of monitoring points. Electrical switchgear, machinery, industrial assets and infrastructure can use passive sensing to add condition information to existing identification and maintenance processes. Logistics, pharmaceuticals, food and smart packaging represent another important opportunity as customers increasingly seek condition data together with traceability. Healthcare and aerospace remain smaller but potentially higher-value markets, where specialized qualification, reliability and application integration can support higher-value sensor products despite lower unit volumes.

Regional Insights

North America and Europe form the leading high-value technology and application cluster for Passive RFID Sensor, supported by established RFID infrastructure, sensor semiconductor capabilities and specialized industrial sensing companies. Europe has a

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particularly dense base of dedicated sensor IC and RAIN RFID sensing specialists, while North America combines large RFID platforms, RF energy-harvesting expertise and specialized applications such as aerospace and advanced asset monitoring. These markets are characterized more by technology differentiation and application engineering than by low-cost volume manufacturing.

China has developed the broadest identified pool of core suppliers in this study and is becoming increasingly important in UHF temperature-sensing ICs, electrical-equipment temperature monitoring and cost-competitive industrial sensor tags. Taiwan contributes RFID packaging and specialist power-equipment sensing capabilities, while Japan and South Korea maintain smaller but technically specialized supplier bases. India, Southeast Asia and the Middle East currently contain fewer dedicated Passive RFID Sensor manufacturers, although regional manufacturing, smart-label conversion and industrial IoT investment create room for additional suppliers as applications become more standardized.

Competitive Landscape Analysis

The global Passive RFID Sensor market remains fragmented and technologically layered rather than dominated by a single type of supplier. The core competitive set comprises 36 validated companies spanning sensor ICs, sensor inlays and labels, rugged industrial tags and application-specific sensors, while the broader supplier pool includes additional regional manufacturers and technology providers whose commercial scale or manufacturing responsibility is less transparent. Large RFID platforms compete through manufacturing scale, converter networks and established customer relationships; semiconductor and specialist sensor companies compete through energy harvesting, sensor-interface architecture and intellectual property; and smaller application-focused manufacturers differentiate through packaging, calibration and industry-specific engineering. Recent strategic activity also indicates gradual consolidation and localization of production capabilities. Identiv announced an agreement in June 2026 to sell its specialty IoT operating assets, including its Thai manufacturing subsidiary, to Trackonomy, with Identiv's August 2026 filing continuing to describe the transaction as pending. Separately, 4id Solutions launched converting operations in Plano, Texas at the beginning of 2026, strengthening local smart-label manufacturing capacity in North America. Over time, competitive advantage is expected to depend increasingly on the combination of sensor accuracy, standard-reader compatibility, scalable manufacturing, rugged packaging, application engineering and lifecycle cost rather than on RFID identification capability alone.

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Report Scope

This report studies the global Passive RFID Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Passive RFID Sensor 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 Passive RFID Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Passive RFID Sensor total production and demand, 2021-2032, (K Units)

Global Passive RFID Sensor total production value, 2021-2032, (USD Million)

Global Passive RFID Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Passive RFID Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Passive RFID Sensor domestic production, consumption, key domestic manufacturers and share

Global Passive RFID Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Passive RFID Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Passive RFID Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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This report profiles key players in the global Passive RFID Sensor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Avery Dennison Corporation, Tageos SAS, Axzon Inc., Shenzhen RICHRFID Technology, Xerafy Singapore, NXP Semiconductors, Asygn SAS, The Swatch Group, Crane Company, Texas Instruments, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Passive RFID Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, 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 Passive RFID Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Market Segmentation

Global Passive RFID Sensor Market, Segmentation by Type:

RAIN RFID Sensors

NFC RFID Sensors

Specialized RFID Sensors

Others

Global Passive RFID Sensor Market, Segmentation by Sensing Parameter:

Temperature Sensors

Liquid Sensors

Pressure Sensors

Mechanical Sensors

Others

Global Passive RFID Sensor Market, Segmentation by Supports Maximum Read Range:

Near-field Type: ?0.5 m

Mid-range Type: 0.5–3 m

Long-range Type: 3–12 m

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Others

Global Passive RFID Sensor Market, Segmentation by Application:

Industrial and Manufacturing

Energy and Utilities

Logistics

Others

Companies Profiled:

Avery Dennison Corporation

Tageos SAS

Axzon Inc.

Shenzhen RICHRFID Technology

Xerafy Singapore

NXP Semiconductors

Asygn SAS

The Swatch Group

Crane Company

Texas Instruments

TOPPAN Holdings

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Powercast

microsensys

WIKA

Quanray

JOHAR

OSRFID

Speedingiot

Radio6ense

Kliskatek

e-Garde

SAG

PQSense

Along Star

Huawang

RTEC

Xiamen Innov

4id Solutions

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Melexis

iLian IoT

Yuanheng Jiade

Yinghuada

Identium

Key Questions Answered

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

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Contents

1 SUPPLY SUMMARY

1.1 Passive RFID Sensor Introduction
1.2 World Passive RFID Sensor Supply & Forecast
  1.2.1 World Passive RFID Sensor Production Value (2021 & 2025 & 2032)
  1.2.2 World Passive RFID Sensor Production (2021-2032)
  1.2.3 World Passive RFID Sensor Pricing Trends (2021-2032)
1.3 World Passive RFID Sensor Production by Region (Based on Production Site)
  1.3.1 World Passive RFID Sensor Production Value by Region (2021-2032)
  1.3.2 World Passive RFID Sensor Production by Region (2021-2032)
  1.3.3 World Passive RFID Sensor Average Price by Region (2021-2032)
  1.3.4 North America Passive RFID Sensor Production (2021-2032)
  1.3.5 Europe Passive RFID Sensor Production (2021-2032)
  1.3.6 China Passive RFID Sensor Production (2021-2032)
  1.3.7 Japan Passive RFID Sensor Production (2021-2032)
  1.3.8 South Korea Passive RFID Sensor Production (2021-2032)
  1.3.9 China Taiwan Passive RFID Sensor Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Passive RFID Sensor Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Passive RFID Sensor Major Market Trends

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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3.1 World Passive RFID Sensor Production Value by Manufacturer (2021-2026)
3.2 World Passive RFID Sensor Production by Manufacturer (2021-2026)
3.3 World Passive RFID Sensor Average Price by Manufacturer (2021-2026)
3.4 Passive RFID Sensor Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global Passive RFID Sensor Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for Passive RFID Sensor in 2025
  3.5.3 Global Concentration Ratios (CR8) for Passive RFID Sensor in 2025
3.6 Passive RFID Sensor Market: Overall Company Footprint Analysis
  3.6.1 Passive RFID Sensor Market: Region Footprint
  3.6.2 Passive RFID Sensor Market: Company Product Type Footprint
  3.6.3 Passive RFID Sensor Market: Company Product Application Footprint
3.7 Competitive Environment
  3.7.1 Historical Structure of the Industry
  3.7.2 Barriers of Market Entry
  3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Passive RFID Sensor Production Value Comparison
  4.1.1 United States VS China: Passive RFID Sensor Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: Passive RFID Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Passive RFID Sensor Production Comparison
  4.2.1 United States VS China: Passive RFID Sensor Production Comparison (2021 & 2025 & 2032)
  4.2.2 United States VS China: Passive RFID Sensor Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Passive RFID Sensor Consumption Comparison
  4.3.1 United States VS China: Passive RFID Sensor Consumption Comparison (2021 & 2025 & 2032)
  4.3.2 United States VS China: Passive RFID Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based Passive RFID Sensor Manufacturers and Market Share, 2021-2026

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4.4.1 United States Based Passive RFID Sensor Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers Passive RFID Sensor Production Value (2021-2026)
4.4.3 United States Based Manufacturers Passive RFID Sensor Production (2021-2026)
4.5 China Based Passive RFID Sensor Manufacturers and Market Share
4.5.1 China Based Passive RFID Sensor Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Passive RFID Sensor Production Value (2021-2026)
4.5.3 China Based Manufacturers Passive RFID Sensor Production (2021-2026)
4.6 Rest of World Based Passive RFID Sensor Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Passive RFID Sensor Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Passive RFID Sensor Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Passive RFID Sensor Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Passive RFID Sensor Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 RAIN RFID Sensors
5.2.2 NFC RFID Sensors
5.2.3 Specialized RFID Sensors
5.2.4 Others
5.3 Market Segment by Type
5.3.1 World Passive RFID Sensor Production by Type (2021-2032)
5.3.2 World Passive RFID Sensor Production Value by Type (2021-2032)
5.3.3 World Passive RFID Sensor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SENSING PARAMETER

6.1 World Passive RFID Sensor Market Size Overview by Sensing Parameter: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Sensing Parameter
6.2.1 Temperature Sensors

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6.2.2 Liquid Sensors
6.2.3 Pressure Sensors
6.2.4 Mechanical Sensors
6.2.5 Others
6.3 Market Segment by Sensing Parameter
6.3.1 World Passive RFID Sensor Production by Sensing Parameter (2021-2032)
6.3.2 World Passive RFID Sensor Production Value by Sensing Parameter (2021-2032)
6.3.3 World Passive RFID Sensor Average Price by Sensing Parameter (2021-2032)

7 MARKET ANALYSIS BY SUPPORTS MAXIMUM READ RANGE

7.1 World Passive RFID Sensor Market Size Overview by Supports Maximum Read Range: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Supports Maximum Read Range
7.2.1 Near-field Type: ?0.5 m
7.2.2 Mid-range Type: 0.5–3 m
7.2.3 Long-range Type: 3–12 m
7.2.4 Others
7.3 Market Segment by Supports Maximum Read Range
7.3.1 World Passive RFID Sensor Production by Supports Maximum Read Range (2021-2032)
7.3.2 World Passive RFID Sensor Production Value by Supports Maximum Read Range (2021-2032)
7.3.3 World Passive RFID Sensor Average Price by Supports Maximum Read Range (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Passive RFID Sensor Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Industrial and Manufacturing
8.2.2 Energy and Utilities
8.2.3 Logistics
8.2.4 Others
8.3 Market Segment by Application
8.3.1 World Passive RFID Sensor Production by Application (2021-2032)
8.3.2 World Passive RFID Sensor Production Value by Application (2021-2032)

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8.3.3 World Passive RFID Sensor Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Avery Dennison Corporation
9.1.1 Avery Dennison Corporation Details
9.1.2 Avery Dennison Corporation Major Business
9.1.3 Avery Dennison Corporation Passive RFID Sensor Product and Services
9.1.4 Avery Dennison Corporation Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 Avery Dennison Corporation Recent Developments/Updates
9.1.6 Avery Dennison Corporation Competitive Strengths & Weaknesses
9.2 Tageos SAS
9.2.1 Tageos SAS Details
9.2.2 Tageos SAS Major Business
9.2.3 Tageos SAS Passive RFID Sensor Product and Services
9.2.4 Tageos SAS Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Tageos SAS Recent Developments/Updates
9.2.6 Tageos SAS Competitive Strengths & Weaknesses
9.3 Axzon Inc.
9.3.1 Axzon Inc. Details
9.3.2 Axzon Inc. Major Business
9.3.3 Axzon Inc. Passive RFID Sensor Product and Services
9.3.4 Axzon Inc. Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 Axzon Inc. Recent Developments/Updates
9.3.6 Axzon Inc. Competitive Strengths & Weaknesses
9.4 Shenzhen RICHRFID Technology
9.4.1 Shenzhen RICHRFID Technology Details
9.4.2 Shenzhen RICHRFID Technology Major Business
9.4.3 Shenzhen RICHRFID Technology Passive RFID Sensor Product and Services
9.4.4 Shenzhen RICHRFID Technology Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 Shenzhen RICHRFID Technology Recent Developments/Updates
9.4.6 Shenzhen RICHRFID Technology Competitive Strengths & Weaknesses
9.5 Xerafy Singapore
9.5.1 Xerafy Singapore Details
9.5.2 Xerafy Singapore Major Business

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info@marketpublishers.com

9.5.3 Xerafy Singapore Passive RFID Sensor Product and Services
9.5.4 Xerafy Singapore Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 Xerafy Singapore Recent Developments/Updates
9.5.6 Xerafy Singapore 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 Passive RFID Sensor Product and Services
9.6.4 NXP Semiconductors Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 NXP Semiconductors Recent Developments/Updates
9.6.6 NXP Semiconductors Competitive Strengths & Weaknesses
9.7 Asygn SAS
9.7.1 Asygn SAS Details
9.7.2 Asygn SAS Major Business
9.7.3 Asygn SAS Passive RFID Sensor Product and Services
9.7.4 Asygn SAS Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 Asygn SAS Recent Developments/Updates
9.7.6 Asygn SAS Competitive Strengths & Weaknesses
9.8 The Swatch Group
9.8.1 The Swatch Group Details
9.8.2 The Swatch Group Major Business
9.8.3 The Swatch Group Passive RFID Sensor Product and Services
9.8.4 The Swatch Group Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 The Swatch Group Recent Developments/Updates
9.8.6 The Swatch Group Competitive Strengths & Weaknesses
9.9 Crane Company
9.9.1 Crane Company Details
9.9.2 Crane Company Major Business
9.9.3 Crane Company Passive RFID Sensor Product and Services
9.9.4 Crane Company Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.9.5 Crane Company Recent Developments/Updates
9.9.6 Crane Company Competitive Strengths & Weaknesses
9.10 Texas Instruments
9.10.1 Texas Instruments Details

+357 96 030922
info@marketpublishers.com

9.10.2 Texas Instruments Major Business
9.10.3 Texas Instruments Passive RFID Sensor Product and Services
9.10.4 Texas Instruments Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.10.5 Texas Instruments Recent Developments/Updates
9.10.6 Texas Instruments Competitive Strengths & Weaknesses
9.11 TOPPAN Holdings
9.11.1 TOPPAN Holdings Details
9.11.2 TOPPAN Holdings Major Business
9.11.3 TOPPAN Holdings Passive RFID Sensor Product and Services
9.11.4 TOPPAN Holdings Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.11.5 TOPPAN Holdings Recent Developments/Updates
9.11.6 TOPPAN Holdings Competitive Strengths & Weaknesses
9.12 onsemi
9.12.1 onsemi Details
9.12.2 onsemi Major Business
9.12.3 onsemi Passive RFID Sensor Product and Services
9.12.4 onsemi Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.12.5 onsemi Recent Developments/Updates
9.12.6 onsemi Competitive Strengths & Weaknesses
9.13 Identiv
9.13.1 Identiv Details
9.13.2 Identiv Major Business
9.13.3 Identiv Passive RFID Sensor Product and Services
9.13.4 Identiv Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.13.5 Identiv Recent Developments/Updates
9.13.6 Identiv Competitive Strengths & Weaknesses
9.14 Powercast
9.14.1 Powercast Details
9.14.2 Powercast Major Business
9.14.3 Powercast Passive RFID Sensor Product and Services
9.14.4 Powercast Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.14.5 Powercast Recent Developments/Updates
9.14.6 Powercast Competitive Strengths & Weaknesses
9.15 microsensys

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9.15.1 microsensys Details
9.15.2 microsensys Major Business
9.15.3 microsensys Passive RFID Sensor Product and Services
9.15.4 microsensys Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.15.5 microsensys Recent Developments/Updates
9.15.6 microsensys Competitive Strengths & Weaknesses
9.16 WIKA
9.16.1 WIKA Details
9.16.2 WIKA Major Business
9.16.3 WIKA Passive RFID Sensor Product and Services
9.16.4 WIKA Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.16.5 WIKA Recent Developments/Updates
9.16.6 WIKA Competitive Strengths & Weaknesses
9.17 Quanray
9.17.1 Quanray Details
9.17.2 Quanray Major Business
9.17.3 Quanray Passive RFID Sensor Product and Services
9.17.4 Quanray Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.17.5 Quanray Recent Developments/Updates
9.17.6 Quanray Competitive Strengths & Weaknesses
9.18 JOHAR
9.18.1 JOHAR Details
9.18.2 JOHAR Major Business
9.18.3 JOHAR Passive RFID Sensor Product and Services
9.18.4 JOHAR Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.18.5 JOHAR Recent Developments/Updates
9.18.6 JOHAR Competitive Strengths & Weaknesses
9.19 OSRFID
9.19.1 OSRFID Details
9.19.2 OSRFID Major Business
9.19.3 OSRFID Passive RFID Sensor Product and Services
9.19.4 OSRFID Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.19.5 OSRFID Recent Developments/Updates
9.19.6 OSRFID Competitive Strengths & Weaknesses

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9.20 Speedingiot
9.20.1 Speedingiot Details
9.20.2 Speedingiot Major Business
9.20.3 Speedingiot Passive RFID Sensor Product and Services
9.20.4 Speedingiot Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.20.5 Speedingiot Recent Developments/Updates
9.20.6 Speedingiot Competitive Strengths & Weaknesses
9.21 Radio6ense
9.21.1 Radio6ense Details
9.21.2 Radio6ense Major Business
9.21.3 Radio6ense Passive RFID Sensor Product and Services
9.21.4 Radio6ense Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.21.5 Radio6ense Recent Developments/Updates
9.21.6 Radio6ense Competitive Strengths & Weaknesses
9.22 Kliskatek
9.22.1 Kliskatek Details
9.22.2 Kliskatek Major Business
9.22.3 Kliskatek Passive RFID Sensor Product and Services
9.22.4 Kliskatek Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.22.5 Kliskatek Recent Developments/Updates
9.22.6 Kliskatek Competitive Strengths & Weaknesses
9.23 e-Garde
9.23.1 e-Garde Details
9.23.2 e-Garde Major Business
9.23.3 e-Garde Passive RFID Sensor Product and Services
9.23.4 e-Garde Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.23.5 e-Garde Recent Developments/Updates
9.23.6 e-Garde Competitive Strengths & Weaknesses
9.24 SAG
9.24.1 SAG Details
9.24.2 SAG Major Business
9.24.3 SAG Passive RFID Sensor Product and Services
9.24.4 SAG Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.24.5 SAG Recent Developments/Updates

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9.24.6 SAG Competitive Strengths & Weaknesses
9.25 PQSense
9.25.1 PQSense Details
9.25.2 PQSense Major Business
9.25.3 PQSense Passive RFID Sensor Product and Services
9.25.4 PQSense Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.25.5 PQSense Recent Developments/Updates
9.25.6 PQSense Competitive Strengths & Weaknesses
9.26 Along Star
9.26.1 Along Star Details
9.26.2 Along Star Major Business
9.26.3 Along Star Passive RFID Sensor Product and Services
9.26.4 Along Star Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.26.5 Along Star Recent Developments/Updates
9.26.6 Along Star Competitive Strengths & Weaknesses
9.27 Huawang
9.27.1 Huawang Details
9.27.2 Huawang Major Business
9.27.3 Huawang Passive RFID Sensor Product and Services
9.27.4 Huawang Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.27.5 Huawang Recent Developments/Updates
9.27.6 Huawang Competitive Strengths & Weaknesses
9.28 RTEC
9.28.1 RTEC Details
9.28.2 RTEC Major Business
9.28.3 RTEC Passive RFID Sensor Product and Services
9.28.4 RTEC Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.28.5 RTEC Recent Developments/Updates
9.28.6 RTEC Competitive Strengths & Weaknesses
9.29 Xiamen Innov
9.29.1 Xiamen Innov Details
9.29.2 Xiamen Innov Major Business
9.29.3 Xiamen Innov Passive RFID Sensor Product and Services
9.29.4 Xiamen Innov Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

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9.29.5 Xiamen Innov Recent Developments/Updates
9.29.6 Xiamen Innov Competitive Strengths & Weaknesses
9.30 4id Solutions
9.30.1 4id Solutions Details
9.30.2 4id Solutions Major Business
9.30.3 4id Solutions Passive RFID Sensor Product and Services
9.30.4 4id Solutions Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.30.5 4id Solutions Recent Developments/Updates
9.30.6 4id Solutions Competitive Strengths & Weaknesses
9.31 Melexis
9.31.1 Melexis Details
9.31.2 Melexis Major Business
9.31.3 Melexis Passive RFID Sensor Product and Services
9.31.4 Melexis Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.31.5 Melexis Recent Developments/Updates
9.31.6 Melexis Competitive Strengths & Weaknesses
9.32 iLian IoT
9.32.1 iLian IoT Details
9.32.2 iLian IoT Major Business
9.32.3 iLian IoT Passive RFID Sensor Product and Services
9.32.4 iLian IoT Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.32.5 iLian IoT Recent Developments/Updates
9.32.6 iLian IoT Competitive Strengths & Weaknesses
9.33 Yuanheng Jiade
9.33.1 Yuanheng Jiade Details
9.33.2 Yuanheng Jiade Major Business
9.33.3 Yuanheng Jiade Passive RFID Sensor Product and Services
9.33.4 Yuanheng Jiade Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.33.5 Yuanheng Jiade Recent Developments/Updates
9.33.6 Yuanheng Jiade Competitive Strengths & Weaknesses
9.34 Yinghuada
9.34.1 Yinghuada Details
9.34.2 Yinghuada Major Business
9.34.3 Yinghuada Passive RFID Sensor Product and Services
9.34.4 Yinghuada Passive RFID Sensor Production, Price, Value, Gross Margin and

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Market Share (2021-2026)
9.34.5 Yinghuada Recent Developments/Updates
9.34.6 Yinghuada Competitive Strengths & Weaknesses
9.35 Identium
9.35.1 Identium Details
9.35.2 Identium Major Business
9.35.3 Identium Passive RFID Sensor Product and Services
9.35.4 Identium Passive RFID Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.35.5 Identium Recent Developments/Updates
9.35.6 Identium Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Passive RFID Sensor Industry Chain
10.2 Passive RFID Sensor Upstream Analysis
10.2.1 Passive RFID Sensor Core Raw Materials
10.2.2 Main Manufacturers of Passive RFID Sensor Core Raw Materials
10.3 Midstream Analysis
10.4 Downstream Analysis
10.5 Passive RFID Sensor Production Mode
10.6 Passive RFID Sensor Procurement Model
10.7 Passive RFID Sensor Industry Sales Model and Sales Channels
10.7.1 Passive RFID Sensor Sales Model
10.7.2 Passive RFID Sensor Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. World Passive RFID Sensor Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Passive RFID Sensor Production Value by Region (2021-2026) & (USD Million)
Table 3. World Passive RFID Sensor Production Value by Region (2027-2032) & (USD Million)
Table 4. World Passive RFID Sensor Production Value Market Share by Region (2021-2026)
Table 5. World Passive RFID Sensor Production Value Market Share by Region (2027-2032)
Table 6. World Passive RFID Sensor Production by Region (2021-2026) & (K Units)
Table 7. World Passive RFID Sensor Production by Region (2027-2032) & (K Units)
Table 8. World Passive RFID Sensor Production Market Share by Region (2021-2026)
Table 9. World Passive RFID Sensor Production Market Share by Region (2027-2032)
Table 10. World Passive RFID Sensor Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World Passive RFID Sensor Average Price by Region (2027-2032) & (US$/Unit)
Table 12. Passive RFID Sensor Major Market Trends
Table 13. World Passive RFID Sensor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
Table 14. World Passive RFID Sensor Consumption by Region (2021-2026) & (K Units)
Table 15. World Passive RFID Sensor Consumption Forecast by Region (2027-2032) & (K Units)
Table 16. World Passive RFID Sensor Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Passive RFID Sensor Producers in 2025
Table 18. World Passive RFID Sensor Production by Manufacturer (2021-2026) & (K Units)
Table 19. Production Market Share of Key Passive RFID Sensor Producers in 2025
Table 20. World Passive RFID Sensor Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 21. Global Passive RFID Sensor Company Evaluation Quadrant
Table 22. World Passive RFID Sensor Industry Rank of Major Manufacturers, Based on

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Production Value in 2025
Table 23. Head Office and Passive RFID Sensor Production Site of Key Manufacturer
Table 24. Passive RFID Sensor Market: Company Product Type Footprint
Table 25. Passive RFID Sensor Market: Company Product Application Footprint
Table 26. Passive RFID Sensor Competitive Factors
Table 27. Passive RFID Sensor New Entrant and Capacity Expansion Plans
Table 28. Passive RFID Sensor Mergers & Acquisitions Activity
Table 29. United States VS China Passive RFID Sensor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Passive RFID Sensor Production Comparison, (2021 & 2025 & 2032) & (K Units)
Table 31. United States VS China Passive RFID Sensor Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
Table 32. United States Based Passive RFID Sensor Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Passive RFID Sensor Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Passive RFID Sensor Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Passive RFID Sensor Production (2021-2026) & (K Units)
Table 36. United States Based Manufacturers Passive RFID Sensor Production Market Share (2021-2026)
Table 37. China Based Passive RFID Sensor Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Passive RFID Sensor Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Passive RFID Sensor Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Passive RFID Sensor Production, (2021-2026) & (K Units)
Table 41. China Based Manufacturers Passive RFID Sensor Production Market Share (2021-2026)
Table 42. Rest of World Based Passive RFID Sensor Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Passive RFID Sensor Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Passive RFID Sensor Production Value Market Share (2021-2026)

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Table 45. Rest of World Based Manufacturers Passive RFID Sensor Production, (2021-2026) & (K Units)
Table 46. Rest of World Based Manufacturers Passive RFID Sensor Production Market Share (2021-2026)
Table 47. World Passive RFID Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Passive RFID Sensor Production by Type (2021-2026) & (K Units)
Table 49. World Passive RFID Sensor Production by Type (2027-2032) & (K Units)
Table 50. World Passive RFID Sensor Production Value by Type (2021-2026) & (USD Million)
Table 51. World Passive RFID Sensor Production Value by Type (2027-2032) & (USD Million)
Table 52. World Passive RFID Sensor Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World Passive RFID Sensor Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World Passive RFID Sensor Production Value by Sensing Parameter, (USD Million), 2021 & 2025 & 2032
Table 55. World Passive RFID Sensor Production by Sensing Parameter (2021-2026) & (K Units)
Table 56. World Passive RFID Sensor Production by Sensing Parameter (2027-2032) & (K Units)
Table 57. World Passive RFID Sensor Production Value by Sensing Parameter (2021-2026) & (USD Million)
Table 58. World Passive RFID Sensor Production Value by Sensing Parameter (2027-2032) & (USD Million)
Table 59. World Passive RFID Sensor Average Price by Sensing Parameter (2021-2026) & (US$/Unit)
Table 60. World Passive RFID Sensor Average Price by Sensing Parameter (2027-2032) & (US$/Unit)
Table 61. World Passive RFID Sensor Production Value by Supports Maximum Read Range, (USD Million), 2021 & 2025 & 2032
Table 62. World Passive RFID Sensor Production by Supports Maximum Read Range (2021-2026) & (K Units)
Table 63. World Passive RFID Sensor Production by Supports Maximum Read Range (2027-2032) & (K Units)
Table 64. World Passive RFID Sensor Production Value by Supports Maximum Read Range (2021-2026) & (USD Million)
Table 65. World Passive RFID Sensor Production Value by Supports Maximum Read Range (2027-2032) & (USD Million)
Table 66. World Passive RFID Sensor Average Price by Supports Maximum Read

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Range (2021-2026) & (US$/Unit)
Table 67. World Passive RFID Sensor Average Price by Supports Maximum Read Range (2027-2032) & (US$/Unit)
Table 68. World Passive RFID Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Passive RFID Sensor Production by Application (2021-2026) & (K Units)
Table 70. World Passive RFID Sensor Production by Application (2027-2032) & (K Units)
Table 71. World Passive RFID Sensor Production Value by Application (2021-2026) & (USD Million)
Table 72. World Passive RFID Sensor Production Value by Application (2027-2032) & (USD Million)
Table 73. World Passive RFID Sensor Average Price by Application (2021-2026) & (US$/Unit)
Table 74. World Passive RFID Sensor Average Price by Application (2027-2032) & (US$/Unit)
Table 75. Avery Dennison Corporation Basic Information, Manufacturing Base and Competitors
Table 76. Avery Dennison Corporation Major Business
Table 77. Avery Dennison Corporation Passive RFID Sensor Product and Services
Table 78. Avery Dennison Corporation Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Avery Dennison Corporation Recent Developments/Updates
Table 80. Avery Dennison Corporation Competitive Strengths & Weaknesses
Table 81. Tageos SAS Basic Information, Manufacturing Base and Competitors
Table 82. Tageos SAS Major Business
Table 83. Tageos SAS Passive RFID Sensor Product and Services
Table 84. Tageos SAS Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Tageos SAS Recent Developments/Updates
Table 86. Tageos SAS Competitive Strengths & Weaknesses
Table 87. Axzon Inc. Basic Information, Manufacturing Base and Competitors
Table 88. Axzon Inc. Major Business
Table 89. Axzon Inc. Passive RFID Sensor Product and Services
Table 90. Axzon Inc. Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Axzon Inc. Recent Developments/Updates

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Table 92. Axzon Inc. Competitive Strengths & Weaknesses
Table 93. Shenzhen RICHRFID Technology Basic Information, Manufacturing Base and Competitors
Table 94. Shenzhen RICHRFID Technology Major Business
Table 95. Shenzhen RICHRFID Technology Passive RFID Sensor Product and Services
Table 96. Shenzhen RICHRFID Technology Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Shenzhen RICHRFID Technology Recent Developments/Updates
Table 98. Shenzhen RICHRFID Technology Competitive Strengths & Weaknesses
Table 99. Xerafy Singapore Basic Information, Manufacturing Base and Competitors
Table 100. Xerafy Singapore Major Business
Table 101. Xerafy Singapore Passive RFID Sensor Product and Services
Table 102. Xerafy Singapore Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Xerafy Singapore Recent Developments/Updates
Table 104. Xerafy Singapore Competitive Strengths & Weaknesses
Table 105. NXP Semiconductors Basic Information, Manufacturing Base and Competitors
Table 106. NXP Semiconductors Major Business
Table 107. NXP Semiconductors Passive RFID Sensor Product and Services
Table 108. NXP Semiconductors Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. NXP Semiconductors Recent Developments/Updates
Table 110. NXP Semiconductors Competitive Strengths & Weaknesses
Table 111. Asygn SAS Basic Information, Manufacturing Base and Competitors
Table 112. Asygn SAS Major Business
Table 113. Asygn SAS Passive RFID Sensor Product and Services
Table 114. Asygn SAS Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Asygn SAS Recent Developments/Updates
Table 116. Asygn SAS Competitive Strengths & Weaknesses
Table 117. The Swatch Group Basic Information, Manufacturing Base and Competitors
Table 118. The Swatch Group Major Business
Table 119. The Swatch Group Passive RFID Sensor Product and Services
Table 120. The Swatch Group Passive RFID Sensor Production (K Units), Price

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(US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. The Swatch Group Recent Developments/Updates
Table 122. The Swatch Group Competitive Strengths & Weaknesses
Table 123. Crane Company Basic Information, Manufacturing Base and Competitors
Table 124. Crane Company Major Business
Table 125. Crane Company Passive RFID Sensor Product and Services
Table 126. Crane Company Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Crane Company Recent Developments/Updates
Table 128. Crane Company Competitive Strengths & Weaknesses
Table 129. Texas Instruments Basic Information, Manufacturing Base and Competitors
Table 130. Texas Instruments Major Business
Table 131. Texas Instruments Passive RFID Sensor Product and Services
Table 132. Texas Instruments Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Texas Instruments Recent Developments/Updates
Table 134. Texas Instruments Competitive Strengths & Weaknesses
Table 135. TOPPAN Holdings Basic Information, Manufacturing Base and Competitors
Table 136. TOPPAN Holdings Major Business
Table 137. TOPPAN Holdings Passive RFID Sensor Product and Services
Table 138. TOPPAN Holdings Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. TOPPAN Holdings Recent Developments/Updates
Table 140. TOPPAN Holdings Competitive Strengths & Weaknesses
Table 141. onsemi Basic Information, Manufacturing Base and Competitors
Table 142. onsemi Major Business
Table 143. onsemi Passive RFID Sensor Product and Services
Table 144. onsemi Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. onsemi Recent Developments/Updates
Table 146. onsemi Competitive Strengths & Weaknesses
Table 147. Identiv Basic Information, Manufacturing Base and Competitors
Table 148. Identiv Major Business
Table 149. Identiv Passive RFID Sensor Product and Services
Table 150. Identiv Passive RFID Sensor Production (K Units), Price (US$/Unit),

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Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Identiv Recent Developments/Updates
Table 152. Identiv Competitive Strengths & Weaknesses
Table 153. Powercast Basic Information, Manufacturing Base and Competitors
Table 154. Powercast Major Business
Table 155. Powercast Passive RFID Sensor Product and Services
Table 156. Powercast Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Powercast Recent Developments/Updates
Table 158. Powercast Competitive Strengths & Weaknesses
Table 159. microsensys Basic Information, Manufacturing Base and Competitors
Table 160. microsensys Major Business
Table 161. microsensys Passive RFID Sensor Product and Services
Table 162. microsensys Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 163. microsensys Recent Developments/Updates
Table 164. microsensys Competitive Strengths & Weaknesses
Table 165. WIKA Basic Information, Manufacturing Base and Competitors
Table 166. WIKA Major Business
Table 167. WIKA Passive RFID Sensor Product and Services
Table 168. WIKA Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. WIKA Recent Developments/Updates
Table 170. WIKA Competitive Strengths & Weaknesses
Table 171. Quanray Basic Information, Manufacturing Base and Competitors
Table 172. Quanray Major Business
Table 173. Quanray Passive RFID Sensor Product and Services
Table 174. Quanray Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. Quanray Recent Developments/Updates
Table 176. Quanray Competitive Strengths & Weaknesses
Table 177. JOHAR Basic Information, Manufacturing Base and Competitors
Table 178. JOHAR Major Business
Table 179. JOHAR Passive RFID Sensor Product and Services
Table 180. JOHAR Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 181. JOHAR Recent Developments/Updates
Table 182. JOHAR Competitive Strengths & Weaknesses
Table 183. OSRFID Basic Information, Manufacturing Base and Competitors

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Table 184. OSRFID Major Business
Table 185. OSRFID Passive RFID Sensor Product and Services
Table 186. OSRFID Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 187. OSRFID Recent Developments/Updates
Table 188. OSRFID Competitive Strengths & Weaknesses
Table 189. Speedingiot Basic Information, Manufacturing Base and Competitors
Table 190. Speedingiot Major Business
Table 191. Speedingiot Passive RFID Sensor Product and Services
Table 192. Speedingiot Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 193. Speedingiot Recent Developments/Updates
Table 194. Speedingiot Competitive Strengths & Weaknesses
Table 195. Radio6ense Basic Information, Manufacturing Base and Competitors
Table 196. Radio6ense Major Business
Table 197. Radio6ense Passive RFID Sensor Product and Services
Table 198. Radio6ense Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 199. Radio6ense Recent Developments/Updates
Table 200. Radio6ense Competitive Strengths & Weaknesses
Table 201. Kliskatek Basic Information, Manufacturing Base and Competitors
Table 202. Kliskatek Major Business
Table 203. Kliskatek Passive RFID Sensor Product and Services
Table 204. Kliskatek Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 205. Kliskatek Recent Developments/Updates
Table 206. Kliskatek Competitive Strengths & Weaknesses
Table 207. e-Garde Basic Information, Manufacturing Base and Competitors
Table 208. e-Garde Major Business
Table 209. e-Garde Passive RFID Sensor Product and Services
Table 210. e-Garde Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 211. e-Garde Recent Developments/Updates
Table 212. e-Garde Competitive Strengths & Weaknesses
Table 213. SAG Basic Information, Manufacturing Base and Competitors
Table 214. SAG Major Business
Table 215. SAG Passive RFID Sensor Product and Services
Table 216. SAG Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

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Table 217. SAG Recent Developments/Updates
Table 218. SAG Competitive Strengths & Weaknesses
Table 219. PQSense Basic Information, Manufacturing Base and Competitors
Table 220. PQSense Major Business
Table 221. PQSense Passive RFID Sensor Product and Services
Table 222. PQSense Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 223. PQSense Recent Developments/Updates
Table 224. PQSense Competitive Strengths & Weaknesses
Table 225. Along Star Basic Information, Manufacturing Base and Competitors
Table 226. Along Star Major Business
Table 227. Along Star Passive RFID Sensor Product and Services
Table 228. Along Star Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 229. Along Star Recent Developments/Updates
Table 230. Along Star Competitive Strengths & Weaknesses
Table 231. Huawang Basic Information, Manufacturing Base and Competitors
Table 232. Huawang Major Business
Table 233. Huawang Passive RFID Sensor Product and Services
Table 234. Huawang Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 235. Huawang Recent Developments/Updates
Table 236. Huawang Competitive Strengths & Weaknesses
Table 237. RTEC Basic Information, Manufacturing Base and Competitors
Table 238. RTEC Major Business
Table 239. RTEC Passive RFID Sensor Product and Services
Table 240. RTEC Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 241. RTEC Recent Developments/Updates
Table 242. RTEC Competitive Strengths & Weaknesses
Table 243. Xiamen Innov Basic Information, Manufacturing Base and Competitors
Table 244. Xiamen Innov Major Business
Table 245. Xiamen Innov Passive RFID Sensor Product and Services
Table 246. Xiamen Innov Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 247. Xiamen Innov Recent Developments/Updates
Table 248. Xiamen Innov Competitive Strengths & Weaknesses
Table 249. 4id Solutions Basic Information, Manufacturing Base and Competitors
Table 250. 4id Solutions Major Business

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Table 251. 4id Solutions Passive RFID Sensor Product and Services
Table 252. 4id Solutions Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 253. 4id Solutions Recent Developments/Updates
Table 254. 4id Solutions Competitive Strengths & Weaknesses
Table 255. Melexis Basic Information, Manufacturing Base and Competitors
Table 256. Melexis Major Business
Table 257. Melexis Passive RFID Sensor Product and Services
Table 258. Melexis Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 259. Melexis Recent Developments/Updates
Table 260. Melexis Competitive Strengths & Weaknesses
Table 261. iLian IoT Basic Information, Manufacturing Base and Competitors
Table 262. iLian IoT Major Business
Table 263. iLian IoT Passive RFID Sensor Product and Services
Table 264. iLian IoT Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 265. iLian IoT Recent Developments/Updates
Table 266. iLian IoT Competitive Strengths & Weaknesses
Table 267. Yuanheng Jiade Basic Information, Manufacturing Base and Competitors
Table 268. Yuanheng Jiade Major Business
Table 269. Yuanheng Jiade Passive RFID Sensor Product and Services
Table 270. Yuanheng Jiade Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 271. Yuanheng Jiade Recent Developments/Updates
Table 272. Yuanheng Jiade Competitive Strengths & Weaknesses
Table 273. Yinghuada Basic Information, Manufacturing Base and Competitors
Table 274. Yinghuada Major Business
Table 275. Yinghuada Passive RFID Sensor Product and Services
Table 276. Yinghuada Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 277. Yinghuada Recent Developments/Updates
Table 278. Yinghuada Competitive Strengths & Weaknesses
Table 279. Identium Basic Information, Manufacturing Base and Competitors
Table 280. Identium Major Business
Table 281. Identium Passive RFID Sensor Product and Services
Table 282. Identium Passive RFID Sensor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

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Table 283. Identium Recent Developments/Updates
Table 284. Identium Competitive Strengths & Weaknesses
Table 285. Global Key Players of Passive RFID Sensor Upstream (Raw Materials)
Table 286. Global Passive RFID Sensor Typical Customers
Table 287. Passive RFID Sensor Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. Passive RFID Sensor Picture
Figure 2. World Passive RFID Sensor Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Passive RFID Sensor Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Passive RFID Sensor Production (2021-2032) & (K Units)
Figure 5. World Passive RFID Sensor Average Price (2021-2032) & (US$/Unit)
Figure 6. World Passive RFID Sensor Production Value Market Share by Region (2021-2032)
Figure 7. World Passive RFID Sensor Production Market Share by Region (2021-2032)
Figure 8. North America Passive RFID Sensor Production (2021-2032) & (K Units)
Figure 9. Europe Passive RFID Sensor Production (2021-2032) & (K Units)
Figure 10. China Passive RFID Sensor Production (2021-2032) & (K Units)
Figure 11. Japan Passive RFID Sensor Production (2021-2032) & (K Units)
Figure 12. South Korea Passive RFID Sensor Production (2021-2032) & (K Units)
Figure 13. China Taiwan Passive RFID Sensor Production (2021-2032) & (K Units)
Figure 14. Passive RFID Sensor Market Drivers
Figure 15. Factors Affecting Demand
Figure 16. World Passive RFID Sensor Consumption (2021-2032) & (K Units)
Figure 17. World Passive RFID Sensor Consumption Market Share by Region (2021-2032)
Figure 18. United States Passive RFID Sensor Consumption (2021-2032) & (K Units)
Figure 19. China Passive RFID Sensor Consumption (2021-2032) & (K Units)
Figure 20. Europe Passive RFID Sensor Consumption (2021-2032) & (K Units)
Figure 21. Japan Passive RFID Sensor Consumption (2021-2032) & (K Units)
Figure 22. South Korea Passive RFID Sensor Consumption (2021-2032) & (K Units)
Figure 23. ASEAN Passive RFID Sensor Consumption (2021-2032) & (K Units)
Figure 24. India Passive RFID Sensor Consumption (2021-2032) & (K Units)
Figure 25. Producer Shipments of Passive RFID Sensor by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 26. Global Four-firm Concentration Ratios (CR4) for Passive RFID Sensor Markets in 2025
Figure 27. Global Four-firm Concentration Ratios (CR8) for Passive RFID Sensor Markets in 2025
Figure 28. United States VS China: Passive RFID Sensor Production Value Market

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Share Comparison (2021 & 2025 & 2032)
Figure 29. United States VS China: Passive RFID Sensor Production Market Share Comparison (2021 & 2025 & 2032)
Figure 30. United States VS China: Passive RFID Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 31. United States Based Manufacturers Passive RFID Sensor Production Market Share 2025
Figure 32. China Based Manufacturers Passive RFID Sensor Production Market Share 2025
Figure 33. Rest of World Based Manufacturers Passive RFID Sensor Production Market Share 2025
Figure 34. World Passive RFID Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 35. World Passive RFID Sensor Production Value Market Share by Type in 2025
Figure 36. RAIN RFID Sensors
Figure 37. NFC RFID Sensors
Figure 38. Specialized RFID Sensors
Figure 39. Others
Figure 40. World Passive RFID Sensor Production Market Share by Type (2021-2032)
Figure 41. World Passive RFID Sensor Production Value Market Share by Type (2021-2032)
Figure 42. World Passive RFID Sensor Average Price by Type (2021-2032) & (US$/Unit)
Figure 43. World Passive RFID Sensor Production Value by Sensing Parameter, (USD Million), 2021 & 2025 & 2032
Figure 44. World Passive RFID Sensor Production Value Market Share by Sensing Parameter in 2025
Figure 45. Temperature Sensors
Figure 46. Liquid Sensors
Figure 47. Pressure Sensors
Figure 48. Mechanical Sensors
Figure 49. Others
Figure 50. World Passive RFID Sensor Production Market Share by Sensing Parameter (2021-2032)
Figure 51. World Passive RFID Sensor Production Value Market Share by Sensing Parameter (2021-2032)
Figure 52. World Passive RFID Sensor Average Price by Sensing Parameter (2021-2032) & (US$/Unit)
Figure 53. World Passive RFID Sensor Production Value by Supports Maximum Read

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Range, (USD Million), 2021 & 2025 & 2032
Figure 54. World Passive RFID Sensor Production Value Market Share by Supports Maximum Read Range in 2025
Figure 55. Near-field Type: ?0.5 m
Figure 56. Mid-range Type: 0.5–3 m
Figure 57. Long-range Type: 3–12 m
Figure 58. Others
Figure 59. World Passive RFID Sensor Production Market Share by Supports Maximum Read Range (2021-2032)
Figure 60. World Passive RFID Sensor Production Value Market Share by Supports Maximum Read Range (2021-2032)
Figure 61. World Passive RFID Sensor Average Price by Supports Maximum Read Range (2021-2032) & (US$/Unit)
Figure 62. World Passive RFID Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 63. World Passive RFID Sensor Production Value Market Share by Application in 2025
Figure 64. Industrial and Manufacturing
Figure 65. Energy and Utilities
Figure 66. Logistics
Figure 67. Others
Figure 68. World Passive RFID Sensor Production Market Share by Application (2021-2032)
Figure 69. World Passive RFID Sensor Production Value Market Share by Application (2021-2032)
Figure 70. World Passive RFID Sensor Average Price by Application (2021-2032) & (US$/Unit)
Figure 71. Passive RFID Sensor Industry Chain
Figure 72. Passive RFID Sensor Procurement Model
Figure 73. Passive RFID Sensor Sales Model
Figure 74. Passive RFID Sensor Sales Channels, Direct Sales, and Distribution
Figure 75. Methodology
Figure 76. Research Process and Data Source

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