

Global Near-Field RAIN RFID Antennas Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GDBC85092663EN.html>

Date: July 2026

Pages: 136

Price: US\$ 4,480.00 (Single User License)

ID: GDBC85092663EN

Abstracts

The global Near-Field RAIN RFID Antennas market size is expected to reach \$ 626 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032).

In 2025, global sales of Near-Field RAIN RFID Antennas reached approximately 1,033 k units, with an average market price of about USD 320 unit, an annual production capacity of roughly 1,400 k units, and an industry-average gross margin of approximately 30%.

Near-Field RAIN RFID Antennas are reader-side antennas designed for passive UHF RAIN RFID systems compliant with ISO/IEC 18000-63 / GS1 UHF Gen2. They are engineered to create a controlled short-range interrogation zone through near-field coupling or constrained RF field design, enabling accurate item-level identification while reducing stray reads, cross reads and interference in dense-tag, metal-rich or liquid-sensitive environments.

The global Near-Field RAIN RFID Antennas market represents a highly specialized hardware segment within the RAIN RFID value chain. Unlike far-field RFID antennas, the core value of near-field RAIN RFID antennas lies not in extending read range, but in establishing controlled identification zones characterized by distinct boundaries, short ranges, and low error rates. This capability addresses common issues?such as stray reads, missed reads, and false reads?frequently encountered in retail POS systems, medical cabinets, smart shelving, industrial workstations, and logistics verification. As RAIN RFID deployments deepen across sectors like apparel retail, warehousing and logistics, healthcare, and manufacturing automation, near-field antennas are evolving from simple identification accessories into critical components of precision data-capture

nodes.

In terms of product structure, fixed-mount standalone near-field antennas will remain the largest category, though their share of revenue is projected to decline from approximately 68% in 2026 to about 58% by 2032. Embedded/OEM near-field antenna modules and integrated near-field reader-antenna devices are poised for faster growth, driven primarily by demand for smart cabinets, industrial automation equipment, medical devices, and customized identification terminals. Overall, this market is not a typical low-cost electronics segment; rather, it is a specialized hardware market where core competitiveness hinges on read-zone control capabilities, environmental adaptability, system compatibility, and project delivery expertise.

This report studies the global Near-Field RAIN RFID Antennas production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Near-Field RAIN RFID Antennas 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 Near-Field RAIN RFID Antennas that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Near-Field RAIN RFID Antennas total production and demand, 2021-2032, (K Units)

Global Near-Field RAIN RFID Antennas total production value, 2021-2032, (USD Million)

Global Near-Field RAIN RFID Antennas production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Near-Field RAIN RFID Antennas consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Near-Field RAIN RFID Antennas domestic production, consumption, key domestic manufacturers and share

Global Near-Field RAIN RFID Antennas production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Near-Field RAIN RFID Antennas production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Near-Field RAIN RFID Antennas production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Near-Field RAIN RFID Antennas 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 Times-7 Research Ltd., Impinj, Zebra Technologies, ifm electronic, HARTING, Kathrein Solutions GmbH, TE Connectivity, RFRain, Invengo, Alien Technology, 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 Near-Field RAIN RFID Antennas 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 Near-Field RAIN RFID Antennas Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Near-Field RAIN RFID Antennas Market, Segmentation by Type:

Passive Antenna

Active Antenna

Global Near-Field RAIN RFID Antennas Market, Segmentation by Architecture:

Standalone

Integrated

Global Near-Field RAIN RFID Antennas Market, Segmentation by Sales Channel:

Online

Offline

Global Near-Field RAIN RFID Antennas Market, Segmentation by Application:

Retail

Logistics & Warehousing

Healthcare

Others

Companies Profiled:

Times-7 Research Ltd.

Impinj

Zebra Technologies

ifm electronic

HARTING

Kathrein Solutions GmbH

TE Connectivity

RFRain

Invengo

Alien Technology

tagltron GmbH

TECTUS

Identix

MTI Wireless Edge

Airplux Technologies

ID Tech Solutions

Key Questions Answered:

1. How big is the global Near-Field RAIN RFID Antennas market?
2. What is the demand of the global Near-Field RAIN RFID Antennas market?
3. What is the year over year growth of the global Near-Field RAIN RFID Antennas market?
4. What is the production and production value of the global Near-Field RAIN RFID Antennas market?
5. Who are the key producers in the global Near-Field RAIN RFID Antennas market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Near-Field RAIN RFID Antennas Production Value by Manufacturer (2021-2026)
- 3.2 World Near-Field RAIN RFID Antennas Production by Manufacturer (2021-2026)
- 3.3 World Near-Field RAIN RFID Antennas Average Price by Manufacturer (2021-2026)
- 3.4 Near-Field RAIN RFID Antennas Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Near-Field RAIN RFID Antennas Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Near-Field RAIN RFID Antennas in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Near-Field RAIN RFID Antennas in 2025
- 3.6 Near-Field RAIN RFID Antennas Market: Overall Company Footprint Analysis
 - 3.6.1 Near-Field RAIN RFID Antennas Market: Region Footprint
 - 3.6.2 Near-Field RAIN RFID Antennas Market: Company Product Type Footprint
 - 3.6.3 Near-Field RAIN RFID Antennas 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: Near-Field RAIN RFID Antennas Production Value Comparison
 - 4.1.1 United States VS China: Near-Field RAIN RFID Antennas Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Near-Field RAIN RFID Antennas Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Near-Field RAIN RFID Antennas Production Comparison
 - 4.2.1 United States VS China: Near-Field RAIN RFID Antennas Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Near-Field RAIN RFID Antennas Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Near-Field RAIN RFID Antennas Consumption Comparison
 - 4.3.1 United States VS China: Near-Field RAIN RFID Antennas Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Near-Field RAIN RFID Antennas Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Near-Field RAIN RFID Antennas Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Near-Field RAIN RFID Antennas Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Near-Field RAIN RFID Antennas Production Value (2021-2026)

4.4.3 United States Based Manufacturers Near-Field RAIN RFID Antennas Production (2021-2026)

4.5 China Based Near-Field RAIN RFID Antennas Manufacturers and Market Share

4.5.1 China Based Near-Field RAIN RFID Antennas Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Near-Field RAIN RFID Antennas Production Value (2021-2026)

4.5.3 China Based Manufacturers Near-Field RAIN RFID Antennas Production (2021-2026)

4.6 Rest of World Based Near-Field RAIN RFID Antennas Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Near-Field RAIN RFID Antennas Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Near-Field RAIN RFID Antennas Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Near-Field RAIN RFID Antennas Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Near-Field RAIN RFID Antennas Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Passive Antenna

5.2.2 Active Antenna

5.3 Market Segment by Type

5.3.1 World Near-Field RAIN RFID Antennas Production by Type (2021-2032)

5.3.2 World Near-Field RAIN RFID Antennas Production Value by Type (2021-2032)

5.3.3 World Near-Field RAIN RFID Antennas Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY ARCHITECTURE

6.1 World Near-Field RAIN RFID Antennas Market Size Overview by Architecture: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Architecture

6.2.1 Standalone

6.2.2 Integrated

6.3 Market Segment by Architecture

6.3.1 World Near-Field RAIN RFID Antennas Production by Architecture (2021-2032)

6.3.2 World Near-Field RAIN RFID Antennas Production Value by Architecture (2021-2032)

6.3.3 World Near-Field RAIN RFID Antennas Average Price by Architecture (2021-2032)

7 MARKET ANALYSIS BY SALES CHANNEL

7.1 World Near-Field RAIN RFID Antennas Market Size Overview by Sales Channel: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Sales Channel

7.2.1 Online

7.2.2 Offline

7.3 Market Segment by Sales Channel

7.3.1 World Near-Field RAIN RFID Antennas Production by Sales Channel (2021-2032)

7.3.2 World Near-Field RAIN RFID Antennas Production Value by Sales Channel (2021-2032)

7.3.3 World Near-Field RAIN RFID Antennas Average Price by Sales Channel (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Near-Field RAIN RFID Antennas Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Retail

8.2.2 Logistics & Warehousing

8.2.3 Healthcare

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Near-Field RAIN RFID Antennas Production by Application (2021-2032)

8.3.2 World Near-Field RAIN RFID Antennas Production Value by Application
(2021-2032)

8.3.3 World Near-Field RAIN RFID Antennas Average Price by Application
(2021-2032)

9 COMPANY PROFILES

9.1 Times-7 Research Ltd.

9.1.1 Times-7 Research Ltd. Details

9.1.2 Times-7 Research Ltd. Major Business

9.1.3 Times-7 Research Ltd. Near-Field RAIN RFID Antennas Product and Services

9.1.4 Times-7 Research Ltd. Near-Field RAIN RFID Antennas Production, Price,
Value, Gross Margin and Market Share (2021-2026)

9.1.5 Times-7 Research Ltd. Recent Developments/Updates

9.1.6 Times-7 Research Ltd. Competitive Strengths & Weaknesses

9.2 Impinj

9.2.1 Impinj Details

9.2.2 Impinj Major Business

9.2.3 Impinj Near-Field RAIN RFID Antennas Product and Services

9.2.4 Impinj Near-Field RAIN RFID Antennas Production, Price, Value, Gross Margin
and Market Share (2021-2026)

9.2.5 Impinj Recent Developments/Updates

9.2.6 Impinj Competitive Strengths & Weaknesses

9.3 Zebra Technologies

9.3.1 Zebra Technologies Details

9.3.2 Zebra Technologies Major Business

9.3.3 Zebra Technologies Near-Field RAIN RFID Antennas Product and Services

9.3.4 Zebra Technologies Near-Field RAIN RFID Antennas Production, Price, Value,
Gross Margin and Market Share (2021-2026)

9.3.5 Zebra Technologies Recent Developments/Updates

9.3.6 Zebra Technologies Competitive Strengths & Weaknesses

9.4 ifm electronic

9.4.1 ifm electronic Details

9.4.2 ifm electronic Major Business

9.4.3 ifm electronic Near-Field RAIN RFID Antennas Product and Services

9.4.4 ifm electronic Near-Field RAIN RFID Antennas Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.4.5 ifm electronic Recent Developments/Updates

9.4.6 ifm electronic Competitive Strengths & Weaknesses

9.5 HARTING

9.5.1 HARTING Details

9.5.2 HARTING Major Business

9.5.3 HARTING Near-Field RAIN RFID Antennas Product and Services

9.5.4 HARTING Near-Field RAIN RFID Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 HARTING Recent Developments/Updates

9.5.6 HARTING Competitive Strengths & Weaknesses

9.6 Kathrein Solutions GmbH

9.6.1 Kathrein Solutions GmbH Details

9.6.2 Kathrein Solutions GmbH Major Business

9.6.3 Kathrein Solutions GmbH Near-Field RAIN RFID Antennas Product and Services

9.6.4 Kathrein Solutions GmbH Near-Field RAIN RFID Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Kathrein Solutions GmbH Recent Developments/Updates

9.6.6 Kathrein Solutions GmbH Competitive Strengths & Weaknesses

9.7 TE Connectivity

9.7.1 TE Connectivity Details

9.7.2 TE Connectivity Major Business

9.7.3 TE Connectivity Near-Field RAIN RFID Antennas Product and Services

9.7.4 TE Connectivity Near-Field RAIN RFID Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 TE Connectivity Recent Developments/Updates

9.7.6 TE Connectivity Competitive Strengths & Weaknesses

9.8 RFRain

9.8.1 RFRain Details

9.8.2 RFRain Major Business

9.8.3 RFRain Near-Field RAIN RFID Antennas Product and Services

9.8.4 RFRain Near-Field RAIN RFID Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 RFRain Recent Developments/Updates

9.8.6 RFRain Competitive Strengths & Weaknesses

9.9 Invengo

9.9.1 Invengo Details

9.9.2 Invengo Major Business

9.9.3 Invengo Near-Field RAIN RFID Antennas Product and Services

9.9.4 Invengo Near-Field RAIN RFID Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Invengo Recent Developments/Updates

- 9.9.6 Invengo Competitive Strengths & Weaknesses
- 9.10 Alien Technology
 - 9.10.1 Alien Technology Details
 - 9.10.2 Alien Technology Major Business
 - 9.10.3 Alien Technology Near-Field RAIN RFID Antennas Product and Services
 - 9.10.4 Alien Technology Near-Field RAIN RFID Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Alien Technology Recent Developments/Updates
 - 9.10.6 Alien Technology Competitive Strengths & Weaknesses
- 9.11 tagltron GmbH
 - 9.11.1 tagltron GmbH Details
 - 9.11.2 tagltron GmbH Major Business
 - 9.11.3 tagltron GmbH Near-Field RAIN RFID Antennas Product and Services
 - 9.11.4 tagltron GmbH Near-Field RAIN RFID Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 tagltron GmbH Recent Developments/Updates
 - 9.11.6 tagltron GmbH Competitive Strengths & Weaknesses
- 9.12 TECTUS
 - 9.12.1 TECTUS Details
 - 9.12.2 TECTUS Major Business
 - 9.12.3 TECTUS Near-Field RAIN RFID Antennas Product and Services
 - 9.12.4 TECTUS Near-Field RAIN RFID Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 TECTUS Recent Developments/Updates
 - 9.12.6 TECTUS Competitive Strengths & Weaknesses
- 9.13 Identix
 - 9.13.1 Identix Details
 - 9.13.2 Identix Major Business
 - 9.13.3 Identix Near-Field RAIN RFID Antennas Product and Services
 - 9.13.4 Identix Near-Field RAIN RFID Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Identix Recent Developments/Updates
 - 9.13.6 Identix Competitive Strengths & Weaknesses
- 9.14 MTI Wireless Edge
 - 9.14.1 MTI Wireless Edge Details
 - 9.14.2 MTI Wireless Edge Major Business
 - 9.14.3 MTI Wireless Edge Near-Field RAIN RFID Antennas Product and Services
 - 9.14.4 MTI Wireless Edge Near-Field RAIN RFID Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.14.5 MTI Wireless Edge Recent Developments/Updates
- 9.14.6 MTI Wireless Edge Competitive Strengths & Weaknesses
- 9.15 Airplux Technologies
 - 9.15.1 Airplux Technologies Details
 - 9.15.2 Airplux Technologies Major Business
 - 9.15.3 Airplux Technologies Near-Field RAIN RFID Antennas Product and Services
 - 9.15.4 Airplux Technologies Near-Field RAIN RFID Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Airplux Technologies Recent Developments/Updates
 - 9.15.6 Airplux Technologies Competitive Strengths & Weaknesses
- 9.16 ID Tech Solutions
 - 9.16.1 ID Tech Solutions Details
 - 9.16.2 ID Tech Solutions Major Business
 - 9.16.3 ID Tech Solutions Near-Field RAIN RFID Antennas Product and Services
 - 9.16.4 ID Tech Solutions Near-Field RAIN RFID Antennas Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 ID Tech Solutions Recent Developments/Updates
 - 9.16.6 ID Tech Solutions Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

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

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Near-Field RAIN RFID Antennas Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Near-Field RAIN RFID Antennas Production Value by Region (2021-2026) & (USD Million)

Table 3. World Near-Field RAIN RFID Antennas Production Value by Region (2027-2032) & (USD Million)

Table 4. World Near-Field RAIN RFID Antennas Production Value Market Share by Region (2021-2026)

Table 5. World Near-Field RAIN RFID Antennas Production Value Market Share by Region (2027-2032)

Table 6. World Near-Field RAIN RFID Antennas Production by Region (2021-2026) & (K Units)

Table 7. World Near-Field RAIN RFID Antennas Production by Region (2027-2032) & (K Units)

Table 8. World Near-Field RAIN RFID Antennas Production Market Share by Region (2021-2026)

Table 9. World Near-Field RAIN RFID Antennas Production Market Share by Region (2027-2032)

Table 10. World Near-Field RAIN RFID Antennas Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Near-Field RAIN RFID Antennas Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Near-Field RAIN RFID Antennas Major Market Trends

Table 13. World Near-Field RAIN RFID Antennas Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Near-Field RAIN RFID Antennas Consumption by Region (2021-2026) & (K Units)

Table 15. World Near-Field RAIN RFID Antennas Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Near-Field RAIN RFID Antennas Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Near-Field RAIN RFID Antennas Producers in 2025

Table 18. World Near-Field RAIN RFID Antennas Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Near-Field RAIN RFID Antennas Producers in 2025

Table 20. World Near-Field RAIN RFID Antennas Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Near-Field RAIN RFID Antennas Company Evaluation Quadrant

Table 22. World Near-Field RAIN RFID Antennas Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Near-Field RAIN RFID Antennas Production Site of Key Manufacturer

Table 24. Near-Field RAIN RFID Antennas Market: Company Product Type Footprint

Table 25. Near-Field RAIN RFID Antennas Market: Company Product Application Footprint

Table 26. Near-Field RAIN RFID Antennas Competitive Factors

Table 27. Near-Field RAIN RFID Antennas New Entrant and Capacity Expansion Plans

Table 28. Near-Field RAIN RFID Antennas Mergers & Acquisitions Activity

Table 29. United States VS China Near-Field RAIN RFID Antennas Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Near-Field RAIN RFID Antennas Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Near-Field RAIN RFID Antennas Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Near-Field RAIN RFID Antennas Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Near-Field RAIN RFID Antennas Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Near-Field RAIN RFID Antennas Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Near-Field RAIN RFID Antennas Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Near-Field RAIN RFID Antennas Production Market Share (2021-2026)

Table 37. China Based Near-Field RAIN RFID Antennas Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Near-Field RAIN RFID Antennas Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Near-Field RAIN RFID Antennas Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Near-Field RAIN RFID Antennas Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Near-Field RAIN RFID Antennas Production Market Share (2021-2026)

Table 42. Rest of World Based Near-Field RAIN RFID Antennas Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Near-Field RAIN RFID Antennas Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Near-Field RAIN RFID Antennas Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Near-Field RAIN RFID Antennas Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Near-Field RAIN RFID Antennas Production Market Share (2021-2026)

Table 47. World Near-Field RAIN RFID Antennas Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Near-Field RAIN RFID Antennas Production by Type (2021-2026) & (K Units)

Table 49. World Near-Field RAIN RFID Antennas Production by Type (2027-2032) & (K Units)

Table 50. World Near-Field RAIN RFID Antennas Production Value by Type (2021-2026) & (USD Million)

Table 51. World Near-Field RAIN RFID Antennas Production Value by Type (2027-2032) & (USD Million)

Table 52. World Near-Field RAIN RFID Antennas Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Near-Field RAIN RFID Antennas Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Near-Field RAIN RFID Antennas Production Value by Architecture, (USD Million), 2021 & 2025 & 2032

Table 55. World Near-Field RAIN RFID Antennas Production by Architecture (2021-2026) & (K Units)

Table 56. World Near-Field RAIN RFID Antennas Production by Architecture (2027-2032) & (K Units)

Table 57. World Near-Field RAIN RFID Antennas Production Value by Architecture (2021-2026) & (USD Million)

Table 58. World Near-Field RAIN RFID Antennas Production Value by Architecture (2027-2032) & (USD Million)

Table 59. World Near-Field RAIN RFID Antennas Average Price by Architecture (2021-2026) & (US\$/Unit)

Table 60. World Near-Field RAIN RFID Antennas Average Price by Architecture

(2027-2032) & (US\$/Unit)

Table 61. World Near-Field RAIN RFID Antennas Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032

Table 62. World Near-Field RAIN RFID Antennas Production by Sales Channel (2021-2026) & (K Units)

Table 63. World Near-Field RAIN RFID Antennas Production by Sales Channel (2027-2032) & (K Units)

Table 64. World Near-Field RAIN RFID Antennas Production Value by Sales Channel (2021-2026) & (USD Million)

Table 65. World Near-Field RAIN RFID Antennas Production Value by Sales Channel (2027-2032) & (USD Million)

Table 66. World Near-Field RAIN RFID Antennas Average Price by Sales Channel (2021-2026) & (US\$/Unit)

Table 67. World Near-Field RAIN RFID Antennas Average Price by Sales Channel (2027-2032) & (US\$/Unit)

Table 68. World Near-Field RAIN RFID Antennas Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Near-Field RAIN RFID Antennas Production by Application (2021-2026) & (K Units)

Table 70. World Near-Field RAIN RFID Antennas Production by Application (2027-2032) & (K Units)

Table 71. World Near-Field RAIN RFID Antennas Production Value by Application (2021-2026) & (USD Million)

Table 72. World Near-Field RAIN RFID Antennas Production Value by Application (2027-2032) & (USD Million)

Table 73. World Near-Field RAIN RFID Antennas Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Near-Field RAIN RFID Antennas Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Times-7 Research Ltd. Basic Information, Manufacturing Base and Competitors

Table 76. Times-7 Research Ltd. Major Business

Table 77. Times-7 Research Ltd. Near-Field RAIN RFID Antennas Product and Services

Table 78. Times-7 Research Ltd. Near-Field RAIN RFID Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Times-7 Research Ltd. Recent Developments/Updates

Table 80. Times-7 Research Ltd. Competitive Strengths & Weaknesses

Table 81. Impinj Basic Information, Manufacturing Base and Competitors

Table 82. Impinj Major Business

Table 83. Impinj Near-Field RAIN RFID Antennas Product and Services

Table 84. Impinj Near-Field RAIN RFID Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Impinj Recent Developments/Updates

Table 86. Impinj Competitive Strengths & Weaknesses

Table 87. Zebra Technologies Basic Information, Manufacturing Base and Competitors

Table 88. Zebra Technologies Major Business

Table 89. Zebra Technologies Near-Field RAIN RFID Antennas Product and Services

Table 90. Zebra Technologies Near-Field RAIN RFID Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Zebra Technologies Recent Developments/Updates

Table 92. Zebra Technologies Competitive Strengths & Weaknesses

Table 93. ifm electronic Basic Information, Manufacturing Base and Competitors

Table 94. ifm electronic Major Business

Table 95. ifm electronic Near-Field RAIN RFID Antennas Product and Services

Table 96. ifm electronic Near-Field RAIN RFID Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. ifm electronic Recent Developments/Updates

Table 98. ifm electronic Competitive Strengths & Weaknesses

Table 99. HARTING Basic Information, Manufacturing Base and Competitors

Table 100. HARTING Major Business

Table 101. HARTING Near-Field RAIN RFID Antennas Product and Services

Table 102. HARTING Near-Field RAIN RFID Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. HARTING Recent Developments/Updates

Table 104. HARTING Competitive Strengths & Weaknesses

Table 105. Kathrein Solutions GmbH Basic Information, Manufacturing Base and Competitors

Table 106. Kathrein Solutions GmbH Major Business

Table 107. Kathrein Solutions GmbH Near-Field RAIN RFID Antennas Product and Services

Table 108. Kathrein Solutions GmbH Near-Field RAIN RFID Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 109. Kathrein Solutions GmbH Recent Developments/Updates

Table 110. Kathrein Solutions GmbH Competitive Strengths & Weaknesses

Table 111. TE Connectivity Basic Information, Manufacturing Base and Competitors

Table 112. TE Connectivity Major Business

Table 113. TE Connectivity Near-Field RAIN RFID Antennas Product and Services

Table 114. TE Connectivity Near-Field RAIN RFID Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. TE Connectivity Recent Developments/Updates

Table 116. TE Connectivity Competitive Strengths & Weaknesses

Table 117. RFRain Basic Information, Manufacturing Base and Competitors

Table 118. RFRain Major Business

Table 119. RFRain Near-Field RAIN RFID Antennas Product and Services

Table 120. RFRain Near-Field RAIN RFID Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. RFRain Recent Developments/Updates

Table 122. RFRain Competitive Strengths & Weaknesses

Table 123. Invengo Basic Information, Manufacturing Base and Competitors

Table 124. Invengo Major Business

Table 125. Invengo Near-Field RAIN RFID Antennas Product and Services

Table 126. Invengo Near-Field RAIN RFID Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Invengo Recent Developments/Updates

Table 128. Invengo Competitive Strengths & Weaknesses

Table 129. Alien Technology Basic Information, Manufacturing Base and Competitors

Table 130. Alien Technology Major Business

Table 131. Alien Technology Near-Field RAIN RFID Antennas Product and Services

Table 132. Alien Technology Near-Field RAIN RFID Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Alien Technology Recent Developments/Updates

Table 134. Alien Technology Competitive Strengths & Weaknesses

Table 135. tagltron GmbH Basic Information, Manufacturing Base and Competitors

Table 136. tagltron GmbH Major Business

Table 137. tagltron GmbH Near-Field RAIN RFID Antennas Product and Services

Table 138. tagltron GmbH Near-Field RAIN RFID Antennas Production (K Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 139. tagltron GmbH Recent Developments/Updates

Table 140. tagltron GmbH Competitive Strengths & Weaknesses

Table 141. TECTUS Basic Information, Manufacturing Base and Competitors

Table 142. TECTUS Major Business

Table 143. TECTUS Near-Field RAIN RFID Antennas Product and Services

Table 144. TECTUS Near-Field RAIN RFID Antennas Production (K Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 145. TECTUS Recent Developments/Updates

Table 146. TECTUS Competitive Strengths & Weaknesses

Table 147. Identix Basic Information, Manufacturing Base and Competitors

Table 148. Identix Major Business

Table 149. Identix Near-Field RAIN RFID Antennas Product and Services

Table 150. Identix Near-Field RAIN RFID Antennas Production (K Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 151. Identix Recent Developments/Updates

Table 152. Identix Competitive Strengths & Weaknesses

Table 153. MTI Wireless Edge Basic Information, Manufacturing Base and Competitors

Table 154. MTI Wireless Edge Major Business

Table 155. MTI Wireless Edge Near-Field RAIN RFID Antennas Product and Services

Table 156. MTI Wireless Edge Near-Field RAIN RFID Antennas Production (K Units),
Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 157. MTI Wireless Edge Recent Developments/Updates

Table 158. MTI Wireless Edge Competitive Strengths & Weaknesses

Table 159. Airplux Technologies Basic Information, Manufacturing Base and
Competitors

Table 160. Airplux Technologies Major Business

Table 161. Airplux Technologies Near-Field RAIN RFID Antennas Product and Services

Table 162. Airplux Technologies Near-Field RAIN RFID Antennas Production (K Units),
Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 163. Airplux Technologies Recent Developments/Updates

Table 164. Airplux Technologies Competitive Strengths & Weaknesses

Table 165. ID Tech Solutions Basic Information, Manufacturing Base and Competitors

Table 166. ID Tech Solutions Major Business

Table 167. ID Tech Solutions Near-Field RAIN RFID Antennas Product and Services

Table 168. ID Tech Solutions Near-Field RAIN RFID Antennas Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. ID Tech Solutions Recent Developments/Updates

Table 170. ID Tech Solutions Competitive Strengths & Weaknesses

Table 171. Global Key Players of Near-Field RAIN RFID Antennas Upstream (Raw Materials)

Table 172. Global Near-Field RAIN RFID Antennas Typical Customers

Table 173. Near-Field RAIN RFID Antennas Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Near-Field RAIN RFID Antennas Picture

Figure 2. World Near-Field RAIN RFID Antennas Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Near-Field RAIN RFID Antennas Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Near-Field RAIN RFID Antennas Production (2021-2032) & (K Units)

Figure 5. World Near-Field RAIN RFID Antennas Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Near-Field RAIN RFID Antennas Production Value Market Share by Region (2021-2032)

Figure 7. World Near-Field RAIN RFID Antennas Production Market Share by Region (2021-2032)

Figure 8. North America Near-Field RAIN RFID Antennas Production (2021-2032) & (K Units)

Figure 9. Europe Near-Field RAIN RFID Antennas Production (2021-2032) & (K Units)

Figure 10. China Near-Field RAIN RFID Antennas Production (2021-2032) & (K Units)

Figure 11. Japan Near-Field RAIN RFID Antennas Production (2021-2032) & (K Units)

Figure 12. South Korea Near-Field RAIN RFID Antennas Production (2021-2032) & (K Units)

Figure 13. Near-Field RAIN RFID Antennas Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Near-Field RAIN RFID Antennas Consumption (2021-2032) & (K Units)

Figure 16. World Near-Field RAIN RFID Antennas Consumption Market Share by Region (2021-2032)

Figure 17. United States Near-Field RAIN RFID Antennas Consumption (2021-2032) & (K Units)

Figure 18. China Near-Field RAIN RFID Antennas Consumption (2021-2032) & (K Units)

Figure 19. Europe Near-Field RAIN RFID Antennas Consumption (2021-2032) & (K Units)

Figure 20. Japan Near-Field RAIN RFID Antennas Consumption (2021-2032) & (K Units)

Figure 21. South Korea Near-Field RAIN RFID Antennas Consumption (2021-2032) & (K Units)

Figure 22. ASEAN Near-Field RAIN RFID Antennas Consumption (2021-2032) & (K Units)

Figure 23. India Near-Field RAIN RFID Antennas Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of Near-Field RAIN RFID Antennas by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Near-Field RAIN RFID Antennas Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Near-Field RAIN RFID Antennas Markets in 2025

Figure 27. United States VS China: Near-Field RAIN RFID Antennas Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Near-Field RAIN RFID Antennas Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Near-Field RAIN RFID Antennas Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Near-Field RAIN RFID Antennas Production Market Share 2025

Figure 31. China Based Manufacturers Near-Field RAIN RFID Antennas Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Near-Field RAIN RFID Antennas Production Market Share 2025

Figure 33. World Near-Field RAIN RFID Antennas Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Near-Field RAIN RFID Antennas Production Value Market Share by Type in 2025

Figure 35. Passive Antenna

Figure 36. Active Antenna

Figure 37. World Near-Field RAIN RFID Antennas Production Market Share by Type (2021-2032)

Figure 38. World Near-Field RAIN RFID Antennas Production Value Market Share by Type (2021-2032)

Figure 39. World Near-Field RAIN RFID Antennas Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Near-Field RAIN RFID Antennas Production Value by Architecture, (USD Million), 2021 & 2025 & 2032

Figure 41. World Near-Field RAIN RFID Antennas Production Value Market Share by Architecture in 2025

Figure 42. Standalone

Figure 43. Integrated

Figure 44. World Near-Field RAIN RFID Antennas Production Market Share by Architecture (2021-2032)

Figure 45. World Near-Field RAIN RFID Antennas Production Value Market Share by Architecture (2021-2032)

Figure 46. World Near-Field RAIN RFID Antennas Average Price by Architecture (2021-2032) & (US\$/Unit)

Figure 47. World Near-Field RAIN RFID Antennas Production Value by Sales Channel, (USD Million), 2021 & 2025 & 2032

Figure 48. World Near-Field RAIN RFID Antennas Production Value Market Share by Sales Channel in 2025

Figure 49. Online

Figure 50. Offline

Figure 51. World Near-Field RAIN RFID Antennas Production Market Share by Sales Channel (2021-2032)

Figure 52. World Near-Field RAIN RFID Antennas Production Value Market Share by Sales Channel (2021-2032)

Figure 53. World Near-Field RAIN RFID Antennas Average Price by Sales Channel (2021-2032) & (US\$/Unit)

Figure 54. World Near-Field RAIN RFID Antennas Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Near-Field RAIN RFID Antennas Production Value Market Share by Application in 2025

Figure 56. Retail

Figure 57. Logistics & Warehousing

Figure 58. Healthcare

Figure 59. Others

Figure 60. World Near-Field RAIN RFID Antennas Production Market Share by Application (2021-2032)

Figure 61. World Near-Field RAIN RFID Antennas Production Value Market Share by Application (2021-2032)

Figure 62. World Near-Field RAIN RFID Antennas Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. Near-Field RAIN RFID Antennas Industry Chain

Figure 64. Near-Field RAIN RFID Antennas Procurement Model

Figure 65. Near-Field RAIN RFID Antennas Sales Model

Figure 66. Near-Field RAIN RFID Antennas Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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