

Global Reconfigurable Intelligent Surfaces (RIS) Technology Market 2023 by Company, Regions, Type and Application, Forecast to 2029

<https://marketpublishers.com/r/G1AF66C01DA3EN.html>

Date: August 2023

Pages: 112

Price: US\$ 3,480.00 (Single User License)

ID: G1AF66C01DA3EN

Abstracts

According to our (Global Info Research) latest study, the global Reconfigurable Intelligent Surfaces (RIS) Technology market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period.

Reconfigurable Intelligent Surfaces (RIS) is a relatively new and innovative technology that falls under the broader category of intelligent reflecting surfaces or metasurfaces. RIS refers to a two-dimensional array of small elements, such as passive or active antennas, sensors, or other electromagnetic components, that can be electronically reconfigured to control the propagation of radio waves, sound waves, or other forms of electromagnetic radiation.

The main idea behind RIS is to manipulate and shape the electromagnetic waves by adjusting the phase, amplitude, or polarization of the reflected or transmitted signals. This enables the RIS to adaptively modify the signal's behavior, such as focusing or redirecting it, canceling interference, enhancing signal strength, or even creating specific radiation patterns.

The advantages of RIS include its energy efficiency as it operates passively, and it can work alongside existing wireless infrastructure, making it easier to deploy in real-world scenarios. However, RIS technology is still in its early stages, and research is ongoing to further explore its potential benefits and optimize its implementation in various applications.

With 5G at last gaining commercial traction and the debate about 6G now looking at

what it might actually offer in practice (rather than just in theory) attention is turning towards how the industry can ensure that 6G, unlike some other allegedly transformational technologies, isn't a triumph of hype over reality.

Hitherto, scientists and engineers have spent decades developing ever more efficient transmitters and receivers and working out ways to mitigate the apparently inevitable signal loss at the end points of a radio channel as they turned to higher and higher frequencies to obviate bandwidth congestion. They have done brilliantly, but it is evident that we are reaching the point where transmitters and receivers are as efficient as physically possible, so the focus is now on engineering the wireless channel itself.

One of the potentially most viable approaches to 6G infrastructure is the use of reconfigurable intelligent surfaces (RIS) technology. This is an artificial planar structure – that is to say, lying in a plane, and thus, by definition, two-dimensional – with integrated electronic circuits that can be programmed dynamically to reflect, refract and manipulate incoming electromagnetic fields. RIS elements come in sizes ranging from about 100 square centimetres up to about 5 square metres or even bigger, and cost a good deal less than traditional cellular antennas. What's more, RIS products are, to all intents and purposes, passive, which means they don't need amplifiers to boost the signal and so can be powered with a simple battery and a small solar panel.

The Global Info Research report includes an overview of the development of the Reconfigurable Intelligent Surfaces (RIS) Technology industry chain, the market status of Wireless Communications (Active RIS, Semi-passive RIS), Radar Systems (Active RIS, Semi-passive RIS), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Reconfigurable Intelligent Surfaces (RIS) Technology.

Regionally, the report analyzes the Reconfigurable Intelligent Surfaces (RIS) Technology markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Reconfigurable Intelligent Surfaces (RIS) Technology market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Reconfigurable Intelligent Surfaces (RIS) Technology market. It provides a holistic view of the industry, as well as

detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Reconfigurable Intelligent Surfaces (RIS) Technology industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Active RIS, Semi-passive RIS).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Reconfigurable Intelligent Surfaces (RIS) Technology market.

Regional Analysis: The report involves examining the Reconfigurable Intelligent Surfaces (RIS) Technology market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Reconfigurable Intelligent Surfaces (RIS) Technology market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Reconfigurable Intelligent Surfaces (RIS) Technology:

Company Analysis: Report covers individual Reconfigurable Intelligent Surfaces (RIS) Technology players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Reconfigurable Intelligent Surfaces (RIS) Technology This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Wireless Communications, Radar Systems).

Technology Analysis: Report covers specific technologies relevant to Reconfigurable Intelligent Surfaces (RIS) Technology. It assesses the current state, advancements, and potential future developments in Reconfigurable Intelligent Surfaces (RIS) Technology areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Reconfigurable Intelligent Surfaces (RIS) Technology market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Reconfigurable Intelligent Surfaces (RIS) Technology market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

Active RIS

Semi-passive RIS

Passive RIS

Market segment by Application

Wireless Communications

Radar Systems

Satellite Communications

Indoor Positioning

Energy Harvesting

Market segment by players, this report covers

BT

Huawei

ZTE

AGC

NTT

Samsung

Rohde & Schwarz

Greenerwave

NEC

Orange Belgium

SK Telecom

China Telecom

Nokia

LG Uplus

Fractal Antenna Systems

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Reconfigurable Intelligent Surfaces (RIS) Technology product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Reconfigurable Intelligent Surfaces (RIS) Technology, with revenue, gross margin and global market share of Reconfigurable Intelligent Surfaces (RIS) Technology from 2018 to 2023.

Chapter 3, the Reconfigurable Intelligent Surfaces (RIS) Technology competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2018 to 2029.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2018 to 2023. and Reconfigurable Intelligent Surfaces (RIS) Technology market forecast, by regions, type and application, with consumption value, from 2024 to 2029.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War

Chapter 12, the key raw materials and key suppliers, and industry chain of Reconfigurable Intelligent Surfaces (RIS) Technology.

Chapter 13, to describe Reconfigurable Intelligent Surfaces (RIS) Technology research findings and conclusion.

Contents

1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Reconfigurable Intelligent Surfaces (RIS) Technology
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Classification of Reconfigurable Intelligent Surfaces (RIS) Technology by Type
 - 1.3.1 Overview: Global Reconfigurable Intelligent Surfaces (RIS) Technology Market Size by Type: 2018 Versus 2022 Versus 2029
 - 1.3.2 Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Type in 2022
 - 1.3.3 Active RIS
 - 1.3.4 Semi-passive RIS
 - 1.3.5 Passive RIS
- 1.4 Global Reconfigurable Intelligent Surfaces (RIS) Technology Market by Application
 - 1.4.1 Overview: Global Reconfigurable Intelligent Surfaces (RIS) Technology Market Size by Application: 2018 Versus 2022 Versus 2029
 - 1.4.2 Wireless Communications
 - 1.4.3 Radar Systems
 - 1.4.4 Satellite Communications
 - 1.4.5 Indoor Positioning
 - 1.4.6 Energy Harvesting
- 1.5 Global Reconfigurable Intelligent Surfaces (RIS) Technology Market Size & Forecast
- 1.6 Global Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast by Region
 - 1.6.1 Global Reconfigurable Intelligent Surfaces (RIS) Technology Market Size by Region: 2018 VS 2022 VS 2029
 - 1.6.2 Global Reconfigurable Intelligent Surfaces (RIS) Technology Market Size by Region, (2018-2029)
 - 1.6.3 North America Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Prospect (2018-2029)
 - 1.6.4 Europe Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Prospect (2018-2029)
 - 1.6.5 Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Prospect (2018-2029)
 - 1.6.6 South America Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Prospect (2018-2029)

1.6.7 Middle East and Africa Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Prospect (2018-2029)

2 COMPANY PROFILES

2.1 BT

2.1.1 BT Details

2.1.2 BT Major Business

2.1.3 BT Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

2.1.4 BT Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.1.5 BT Recent Developments and Future Plans

2.2 Huawei

2.2.1 Huawei Details

2.2.2 Huawei Major Business

2.2.3 Huawei Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

2.2.4 Huawei Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.2.5 Huawei Recent Developments and Future Plans

2.3 ZTE

2.3.1 ZTE Details

2.3.2 ZTE Major Business

2.3.3 ZTE Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

2.3.4 ZTE Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.3.5 ZTE Recent Developments and Future Plans

2.4 AGC

2.4.1 AGC Details

2.4.2 AGC Major Business

2.4.3 AGC Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

2.4.4 AGC Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.4.5 AGC Recent Developments and Future Plans

2.5 NTT

2.5.1 NTT Details

2.5.2 NTT Major Business

2.5.3 NTT Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

2.5.4 NTT Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.5.5 NTT Recent Developments and Future Plans

2.6 Samsung

2.6.1 Samsung Details

2.6.2 Samsung Major Business

2.6.3 Samsung Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

2.6.4 Samsung Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.6.5 Samsung Recent Developments and Future Plans

2.7 Rohde & Schwarz

2.7.1 Rohde & Schwarz Details

2.7.2 Rohde & Schwarz Major Business

2.7.3 Rohde & Schwarz Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

2.7.4 Rohde & Schwarz Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.7.5 Rohde & Schwarz Recent Developments and Future Plans

2.8 Greenerwave

2.8.1 Greenerwave Details

2.8.2 Greenerwave Major Business

2.8.3 Greenerwave Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

2.8.4 Greenerwave Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.8.5 Greenerwave Recent Developments and Future Plans

2.9 NEC

2.9.1 NEC Details

2.9.2 NEC Major Business

2.9.3 NEC Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

2.9.4 NEC Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.9.5 NEC Recent Developments and Future Plans

2.10 Orange Belgium

2.10.1 Orange Belgium Details

2.10.2 Orange Belgium Major Business

2.10.3 Orange Belgium Reconfigurable Intelligent Surfaces (RIS) Technology Product

and Solutions

2.10.4 Orange Belgium Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.10.5 Orange Belgium Recent Developments and Future Plans

2.11 SK Telecom

2.11.1 SK Telecom Details

2.11.2 SK Telecom Major Business

2.11.3 SK Telecom Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

2.11.4 SK Telecom Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.11.5 SK Telecom Recent Developments and Future Plans

2.12 China Telecom

2.12.1 China Telecom Details

2.12.2 China Telecom Major Business

2.12.3 China Telecom Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

2.12.4 China Telecom Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.12.5 China Telecom Recent Developments and Future Plans

2.13 Nokia

2.13.1 Nokia Details

2.13.2 Nokia Major Business

2.13.3 Nokia Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

2.13.4 Nokia Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.13.5 Nokia Recent Developments and Future Plans

2.14 LG Uplus

2.14.1 LG Uplus Details

2.14.2 LG Uplus Major Business

2.14.3 LG Uplus Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

2.14.4 LG Uplus Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.14.5 LG Uplus Recent Developments and Future Plans

2.15 Fractal Antenna Systems

2.15.1 Fractal Antenna Systems Details

2.15.2 Fractal Antenna Systems Major Business

2.15.3 Fractal Antenna Systems Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

2.15.4 Fractal Antenna Systems Reconfigurable Intelligent Surfaces (RIS) Technology Revenue, Gross Margin and Market Share (2018-2023)

2.15.5 Fractal Antenna Systems Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

3.1 Global Reconfigurable Intelligent Surfaces (RIS) Technology Revenue and Share by Players (2018-2023)

3.2 Market Share Analysis (2022)

3.2.1 Market Share of Reconfigurable Intelligent Surfaces (RIS) Technology by Company Revenue

3.2.2 Top 3 Reconfigurable Intelligent Surfaces (RIS) Technology Players Market Share in 2022

3.2.3 Top 6 Reconfigurable Intelligent Surfaces (RIS) Technology Players Market Share in 2022

3.3 Reconfigurable Intelligent Surfaces (RIS) Technology Market: Overall Company Footprint Analysis

3.3.1 Reconfigurable Intelligent Surfaces (RIS) Technology Market: Region Footprint

3.3.2 Reconfigurable Intelligent Surfaces (RIS) Technology Market: Company Product Type Footprint

3.3.3 Reconfigurable Intelligent Surfaces (RIS) Technology Market: Company Product Application Footprint

3.4 New Market Entrants and Barriers to Market Entry

3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

4.1 Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value and Market Share by Type (2018-2023)

4.2 Global Reconfigurable Intelligent Surfaces (RIS) Technology Market Forecast by Type (2024-2029)

5 MARKET SIZE SEGMENT BY APPLICATION

5.1 Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Application (2018-2023)

5.2 Global Reconfigurable Intelligent Surfaces (RIS) Technology Market Forecast by

Application (2024-2029)

6 NORTH AMERICA

6.1 North America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type (2018-2029)

6.2 North America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application (2018-2029)

6.3 North America Reconfigurable Intelligent Surfaces (RIS) Technology Market Size by Country

6.3.1 North America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Country (2018-2029)

6.3.2 United States Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

6.3.3 Canada Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

6.3.4 Mexico Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

7 EUROPE

7.1 Europe Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type (2018-2029)

7.2 Europe Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application (2018-2029)

7.3 Europe Reconfigurable Intelligent Surfaces (RIS) Technology Market Size by Country

7.3.1 Europe Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Country (2018-2029)

7.3.2 Germany Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

7.3.3 France Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

7.3.4 United Kingdom Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

7.3.5 Russia Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

7.3.6 Italy Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

8 ASIA-PACIFIC

8.1 Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type (2018-2029)

8.2 Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application (2018-2029)

8.3 Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Market Size by Region

8.3.1 Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Region (2018-2029)

8.3.2 China Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

8.3.3 Japan Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

8.3.4 South Korea Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

8.3.5 India Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

8.3.6 Southeast Asia Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

8.3.7 Australia Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

9 SOUTH AMERICA

9.1 South America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type (2018-2029)

9.2 South America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application (2018-2029)

9.3 South America Reconfigurable Intelligent Surfaces (RIS) Technology Market Size by Country

9.3.1 South America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Country (2018-2029)

9.3.2 Brazil Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

9.3.3 Argentina Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type (2018-2029)

10.2 Middle East & Africa Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application (2018-2029)

10.3 Middle East & Africa Reconfigurable Intelligent Surfaces (RIS) Technology Market Size by Country

10.3.1 Middle East & Africa Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Country (2018-2029)

10.3.2 Turkey Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

10.3.3 Saudi Arabia Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

10.3.4 UAE Reconfigurable Intelligent Surfaces (RIS) Technology Market Size and Forecast (2018-2029)

11 MARKET DYNAMICS

11.1 Reconfigurable Intelligent Surfaces (RIS) Technology Market Drivers

11.2 Reconfigurable Intelligent Surfaces (RIS) Technology Market Restraints

11.3 Reconfigurable Intelligent Surfaces (RIS) Technology Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

11.5 Influence of COVID-19 and Russia-Ukraine War

11.5.1 Influence of COVID-19

11.5.2 Influence of Russia-Ukraine War

12 INDUSTRY CHAIN ANALYSIS

12.1 Reconfigurable Intelligent Surfaces (RIS) Technology Industry Chain

12.2 Reconfigurable Intelligent Surfaces (RIS) Technology Upstream Analysis

12.3 Reconfigurable Intelligent Surfaces (RIS) Technology Midstream Analysis

12.4 Reconfigurable Intelligent Surfaces (RIS) Technology Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Table 2. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Table 3. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Region (2018-2023) & (USD Million)
- Table 4. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Region (2024-2029) & (USD Million)
- Table 5. BT Company Information, Head Office, and Major Competitors
- Table 6. BT Major Business
- Table 7. BT Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions
- Table 8. BT Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 9. BT Recent Developments and Future Plans
- Table 10. Huawei Company Information, Head Office, and Major Competitors
- Table 11. Huawei Major Business
- Table 12. Huawei Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions
- Table 13. Huawei Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 14. Huawei Recent Developments and Future Plans
- Table 15. ZTE Company Information, Head Office, and Major Competitors
- Table 16. ZTE Major Business
- Table 17. ZTE Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions
- Table 18. ZTE Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 19. ZTE Recent Developments and Future Plans
- Table 20. AGC Company Information, Head Office, and Major Competitors
- Table 21. AGC Major Business
- Table 22. AGC Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions
- Table 23. AGC Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)

- Table 24. AGC Recent Developments and Future Plans
- Table 25. NTT Company Information, Head Office, and Major Competitors
- Table 26. NTT Major Business
- Table 27. NTT Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions
- Table 28. NTT Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 29. NTT Recent Developments and Future Plans
- Table 30. Samsung Company Information, Head Office, and Major Competitors
- Table 31. Samsung Major Business
- Table 32. Samsung Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions
- Table 33. Samsung Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 34. Samsung Recent Developments and Future Plans
- Table 35. Rohde & Schwarz Company Information, Head Office, and Major Competitors
- Table 36. Rohde & Schwarz Major Business
- Table 37. Rohde & Schwarz Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions
- Table 38. Rohde & Schwarz Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 39. Rohde & Schwarz Recent Developments and Future Plans
- Table 40. Greenerwave Company Information, Head Office, and Major Competitors
- Table 41. Greenerwave Major Business
- Table 42. Greenerwave Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions
- Table 43. Greenerwave Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 44. Greenerwave Recent Developments and Future Plans
- Table 45. NEC Company Information, Head Office, and Major Competitors
- Table 46. NEC Major Business
- Table 47. NEC Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions
- Table 48. NEC Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 49. NEC Recent Developments and Future Plans
- Table 50. Orange Belgium Company Information, Head Office, and Major Competitors
- Table 51. Orange Belgium Major Business
- Table 52. Orange Belgium Reconfigurable Intelligent Surfaces (RIS) Technology

Product and Solutions

Table 53. Orange Belgium Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 54. Orange Belgium Recent Developments and Future Plans

Table 55. SK Telecom Company Information, Head Office, and Major Competitors

Table 56. SK Telecom Major Business

Table 57. SK Telecom Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

Table 58. SK Telecom Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 59. SK Telecom Recent Developments and Future Plans

Table 60. China Telecom Company Information, Head Office, and Major Competitors

Table 61. China Telecom Major Business

Table 62. China Telecom Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

Table 63. China Telecom Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 64. China Telecom Recent Developments and Future Plans

Table 65. Nokia Company Information, Head Office, and Major Competitors

Table 66. Nokia Major Business

Table 67. Nokia Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

Table 68. Nokia Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 69. Nokia Recent Developments and Future Plans

Table 70. LG Uplus Company Information, Head Office, and Major Competitors

Table 71. LG Uplus Major Business

Table 72. LG Uplus Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

Table 73. LG Uplus Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 74. LG Uplus Recent Developments and Future Plans

Table 75. Fractal Antenna Systems Company Information, Head Office, and Major Competitors

Table 76. Fractal Antenna Systems Major Business

Table 77. Fractal Antenna Systems Reconfigurable Intelligent Surfaces (RIS) Technology Product and Solutions

Table 78. Fractal Antenna Systems Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 79. Fractal Antenna Systems Recent Developments and Future Plans

Table 80. Global Reconfigurable Intelligent Surfaces (RIS) Technology Revenue (USD Million) by Players (2018-2023)

Table 81. Global Reconfigurable Intelligent Surfaces (RIS) Technology Revenue Share by Players (2018-2023)

Table 82. Breakdown of Reconfigurable Intelligent Surfaces (RIS) Technology by Company Type (Tier 1, Tier 2, and Tier 3)

Table 83. Market Position of Players in Reconfigurable Intelligent Surfaces (RIS) Technology, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2022

Table 84. Head Office of Key Reconfigurable Intelligent Surfaces (RIS) Technology Players

Table 85. Reconfigurable Intelligent Surfaces (RIS) Technology Market: Company Product Type Footprint

Table 86. Reconfigurable Intelligent Surfaces (RIS) Technology Market: Company Product Application Footprint

Table 87. Reconfigurable Intelligent Surfaces (RIS) Technology New Market Entrants and Barriers to Market Entry

Table 88. Reconfigurable Intelligent Surfaces (RIS) Technology Mergers, Acquisition, Agreements, and Collaborations

Table 89. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (USD Million) by Type (2018-2023)

Table 90. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Share by Type (2018-2023)

Table 91. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Forecast by Type (2024-2029)

Table 92. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application (2018-2023)

Table 93. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Forecast by Application (2024-2029)

Table 94. North America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type (2018-2023) & (USD Million)

Table 95. North America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type (2024-2029) & (USD Million)

Table 96. North America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application (2018-2023) & (USD Million)

Table 97. North America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application (2024-2029) & (USD Million)

Table 98. North America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Country (2018-2023) & (USD Million)

Table 99. North America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Country (2024-2029) & (USD Million)

Table 100. Europe Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type (2018-2023) & (USD Million)

Table 101. Europe Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type (2024-2029) & (USD Million)

Table 102. Europe Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application (2018-2023) & (USD Million)

Table 103. Europe Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application (2024-2029) & (USD Million)

Table 104. Europe Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Country (2018-2023) & (USD Million)

Table 105. Europe Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Country (2024-2029) & (USD Million)

Table 106. Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type (2018-2023) & (USD Million)

Table 107. Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type (2024-2029) & (USD Million)

Table 108. Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application (2018-2023) & (USD Million)

Table 109. Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application (2024-2029) & (USD Million)

Table 110. Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Region (2018-2023) & (USD Million)

Table 111. Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Region (2024-2029) & (USD Million)

Table 112. South America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type (2018-2023) & (USD Million)

Table 113. South America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type (2024-2029) & (USD Million)

Table 114. South America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application (2018-2023) & (USD Million)

Table 115. South America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Application (2024-2029) & (USD Million)

Table 116. South America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Country (2018-2023) & (USD Million)

Table 117. South America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Country (2024-2029) & (USD Million)

Table 118. Middle East & Africa Reconfigurable Intelligent Surfaces (RIS) Technology

Consumption Value by Type (2018-2023) & (USD Million)

Table 119. Middle East & Africa Reconfigurable Intelligent Surfaces (RIS) Technology

Consumption Value by Type (2024-2029) & (USD Million)

Table 120. Middle East & Africa Reconfigurable Intelligent Surfaces (RIS) Technology

Consumption Value by Application (2018-2023) & (USD Million)

Table 121. Middle East & Africa Reconfigurable Intelligent Surfaces (RIS) Technology

Consumption Value by Application (2024-2029) & (USD Million)

Table 122. Middle East & Africa Reconfigurable Intelligent Surfaces (RIS) Technology

Consumption Value by Country (2018-2023) & (USD Million)

Table 123. Middle East & Africa Reconfigurable Intelligent Surfaces (RIS) Technology

Consumption Value by Country (2024-2029) & (USD Million)

Table 124. Reconfigurable Intelligent Surfaces (RIS) Technology Raw Material

Table 125. Key Suppliers of Reconfigurable Intelligent Surfaces (RIS) Technology Raw Materials

List Of Figures

LIST OF FIGURES

- Figure 1. Reconfigurable Intelligent Surfaces (RIS) Technology Picture
- Figure 2. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Figure 3. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Type in 2022
- Figure 4. Active RIS
- Figure 5. Semi-passive RIS
- Figure 6. Passive RIS
- Figure 7. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Figure 8. Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Application in 2022
- Figure 9. Wireless Communications Picture
- Figure 10. Radar Systems Picture
- Figure 11. Satellite Communications Picture
- Figure 12. Indoor Positioning Picture
- Figure 13. Energy Harvesting Picture
- Figure 14. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value, (USD Million): 2018 & 2022 & 2029
- Figure 15. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value and Forecast (2018-2029) & (USD Million)
- Figure 16. Global Market Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (USD Million) Comparison by Region (2018 & 2022 & 2029)
- Figure 17. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Region (2018-2029)
- Figure 18. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Region in 2022
- Figure 19. North America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)
- Figure 20. Europe Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)
- Figure 21. Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)
- Figure 22. South America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 23. Middle East and Africa Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 24. Global Reconfigurable Intelligent Surfaces (RIS) Technology Revenue Share by Players in 2022

Figure 25. Reconfigurable Intelligent Surfaces (RIS) Technology Market Share by Company Type (Tier 1, Tier 2 and Tier 3) in 2022

Figure 26. Global Top 3 Players Reconfigurable Intelligent Surfaces (RIS) Technology Market Share in 2022

Figure 27. Global Top 6 Players Reconfigurable Intelligent Surfaces (RIS) Technology Market Share in 2022

Figure 28. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Share by Type (2018-2023)

Figure 29. Global Reconfigurable Intelligent Surfaces (RIS) Technology Market Share Forecast by Type (2024-2029)

Figure 30. Global Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Share by Application (2018-2023)

Figure 31. Global Reconfigurable Intelligent Surfaces (RIS) Technology Market Share Forecast by Application (2024-2029)

Figure 32. North America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Type (2018-2029)

Figure 33. North America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Application (2018-2029)

Figure 34. North America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Country (2018-2029)

Figure 35. United States Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 36. Canada Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 37. Mexico Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 38. Europe Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Type (2018-2029)

Figure 39. Europe Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Application (2018-2029)

Figure 40. Europe Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Country (2018-2029)

Figure 41. Germany Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 42. France Reconfigurable Intelligent Surfaces (RIS) Technology Consumption

Value (2018-2029) & (USD Million)

Figure 43. United Kingdom Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 44. Russia Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 45. Italy Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 46. Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Type (2018-2029)

Figure 47. Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Application (2018-2029)

Figure 48. Asia-Pacific Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Region (2018-2029)

Figure 49. China Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 50. Japan Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 51. South Korea Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 52. India Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 53. Southeast Asia Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 54. Australia Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 55. South America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Type (2018-2029)

Figure 56. South America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Application (2018-2029)

Figure 57. South America Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Country (2018-2029)

Figure 58. Brazil Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 59. Argentina Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 60. Middle East and Africa Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Type (2018-2029)

Figure 61. Middle East and Africa Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Application (2018-2029)

Figure 62. Middle East and Africa Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value Market Share by Country (2018-2029)

Figure 63. Turkey Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 64. Saudi Arabia Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 65. UAE Reconfigurable Intelligent Surfaces (RIS) Technology Consumption Value (2018-2029) & (USD Million)

Figure 66. Reconfigurable Intelligent Surfaces (RIS) Technology Market Drivers

Figure 67. Reconfigurable Intelligent Surfaces (RIS) Technology Market Restraints

Figure 68. Reconfigurable Intelligent Surfaces (RIS) Technology Market Trends

Figure 69. Porters Five Forces Analysis

Figure 70. Manufacturing Cost Structure Analysis of Reconfigurable Intelligent Surfaces (RIS) Technology in 2022

Figure 71. Manufacturing Process Analysis of Reconfigurable Intelligent Surfaces (RIS) Technology

Figure 72. Reconfigurable Intelligent Surfaces (RIS) Technology Industrial Chain

Figure 73. Methodology

Figure 74. Research Process and Data Source

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