

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

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Abstracts

According to our (Global Info Research) latest study, the global Reconfigurable Intelligent Surfaces (RIS) Hardware 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) Hardware 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) Hardware.

Regionally, the report analyzes the Reconfigurable Intelligent Surfaces (RIS) Hardware 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) Hardware 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) Hardware 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) Hardware 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 sales quantity (Units), 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) Hardware market.

Regional Analysis: The report involves examining the Reconfigurable Intelligent Surfaces (RIS) Hardware 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) Hardware 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) Hardware:

Company Analysis: Report covers individual Reconfigurable Intelligent Surfaces (RIS) Hardware manufacturers, 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) Hardware 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) Hardware. It assesses the current state, advancements, and potential future developments in Reconfigurable Intelligent Surfaces (RIS) Hardware areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Reconfigurable Intelligent Surfaces (RIS) Hardware 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) Hardware 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 volume and 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

Major players covered

AGC

NTT

ZTE????

Orange Belgium

SK Telecom

Greenerwave

Fractal Antenna Systems

Kymeta

Metamaterial

Metacept Systems

Metawave

Pivotal Commware

SensorMetrix

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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

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

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

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

Chapter 2, to profile the top manufacturers of Reconfigurable Intelligent Surfaces (RIS) Hardware, with price, sales, revenue and global market share of Reconfigurable Intelligent Surfaces (RIS) Hardware from 2018 to 2023.

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

Chapter 4, the Reconfigurable Intelligent Surfaces (RIS) Hardware breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022. and Reconfigurable Intelligent Surfaces (RIS) Hardware market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Reconfigurable Intelligent Surfaces (RIS) Hardware.

Chapter 14 and 15, to describe Reconfigurable Intelligent Surfaces (RIS) Hardware sales channel, distributors, customers, research findings and conclusion.

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