

RF Connectors Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

<https://marketpublishers.com/r/RA0A43930B9BEN.html>

Date: October 2024

Pages: 200

Price: US\$ 4,850.00 (Single User License)

ID: RA0A43930B9BEN

Abstracts

The Global RF Connectors Market was valued at USD 32 billion in 2023 and is projected to grow at a CAGR of 7.7% from 2024 to 2032. A major factor driving this growth is the extension of 112G PAM4 connection in enterprise networks, which demands high-performance RF connectors for faster data transmission and improved efficiency. As data rates increase, the need for reliable RF connectors becomes essential, especially in enterprise networking, where managing large data volumes requires robust and seamless connectivity. These connectors are vital for integrating networking devices such as switches, routers, and security appliances, enabling smooth communication across various systems. The exceptional strength and flexibility ensure reliable, consistent connections, even in challenging environments.

Furthermore, its capacity to perform well at high frequencies makes it a preferred choice in advanced communication technologies such as 5G. As industries increasingly seek connectors that combine durability with high performance, the necessity for beryllium copper in RF components is steadily growing, fueling its rapid market expansion. The market is categorized by mounting type into edge mount, through-hole, panel mount, PCB mount, and others. The PCB mount segment is expected to reach USD 22.9 billion by 2032, making it the fastest-growing segment.

PCB mount connectors are extensively used across industries such as telecommunications, automotive, consumer electronics, and aerospace. These connectors enable efficient integration of RF connectors straight onto printed circuit boards, making them indispensable in today's compact and high-performance electronic devices. In terms of material, beryllium copper is the fastest-growing segment, with an expected CAGR of 9.2% between 2024 and 2032. Its superior mechanical and electrical properties, including excellent conductivity, durability, and

corrosion resistance, make it ideal for high-demand applications in telecommunications, aerospace, and military sectors. Beryllium copper's strength and flexibility ensure consistent and reliable connections, even in harsh environments.

The U.S. held a 77.9% share of the North America RF connectors market in 2023, backed by strong needs across the aerospace, telecommunications industries, and automotive. The push towards 5G network deployment, alongside advancements in military and defense communication systems, has sharply increased the demand for high-performance RF connectors. Furthermore, the presence of key manufacturers and ongoing innovations in wireless communication technology are fueling market growth. However, growing competition from alternative wireless connectivity solutions poses a challenge for traditional RF connector manufacturers to retain their market share.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculations
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid sources
 - 1.4.2.2 Public sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021-2032

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
 - 3.1.1 Factor affecting the value chain
 - 3.1.2 Profit margin analysis
 - 3.1.3 Disruptions
 - 3.1.4 Future outlook
 - 3.1.5 Manufacturers
 - 3.1.6 Distributors
- 3.2 Supplier landscape
- 3.3 Profit margin analysis
- 3.4 Key news & initiatives
- 3.5 Regulatory landscape
- 3.6 Impact forces
 - 3.6.1 Growth drivers
 - 3.6.1.1. Expansion of 112 G PAM4 connectivity into enterprise networks
 - 3.6.1.2 Increased investment in modern communication networks
 - 3.6.1.3 Increased demand for reliable connectivity solutions.
 - 3.6.1.4. Adoption in V2 X and ADAS technologies.
 - 3.6.1.5 Need for high-performance, rugged connectors

3.6.2 Industry pitfalls & challenges

3.6.2.1 Advanced designs require specialized expertise and resources.

3.6.2.2 Intense competition leads to pricing pressures.

3.7 Growth potential analysis

3.8 Porter's analysis

3.9 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2023

4.1 Introduction

4.2 Company market share analysis

4.3 Competitive positioning matrix

4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY PRODUCT TYPE, 2021-2032 (USD BILLION)

5.1 Key trends

5.2 BNC connectors

5.3 SMA connectors

5.4 MCX/MMCX connectors

5.5 N-Type connectors

5.6 TNC connectors

5.7 F-Type connectors

5.8 UHF connectors

5.9 QMA connectors

5.10 Others (e.g., SMB, SMC, SMP)

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY FREQUENCY RANGE, 2021-2032 (USD BILLION)

6.1 Key trends

6.2 Low frequency (6.3 Medium frequency (1-6 GHz)

6.4 High frequency (> 6 GHz)

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY MOUNTING TYPE, 2021-2032 (USD BILLION)

7.1 Key trends

- 7.2 Edge mount
- 7.3 Through hole
- 7.4 Panel mount
- 7.5 PCB mount
- 7.6 Others

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY MATERIAL, 2021-2032 (USD BILLION)

- 8.1 Key trends
- 8.2 Brass
- 8.3 Beryllium copper
- 8.4 Stainless steel
- 8.5 Aluminum
- 8.6 Others

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY PLATING, 2021-2032 (USD BILLION)

- 9.1 Key trends
- 9.2 Gold
- 9.3 Silver
- 9.4 Nickel
- 9.5 Others

CHAPTER 10 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021-2032 (USD BILLION)

- 10.1 Key trends
- 10.2 Wireless infrastructure
- 10.3 Test & measurement equipment
- 10.4 Satellite communication
- 10.5 Broadcast equipment
- 10.6 Antenna systems
- 10.7 IoT devices
- 10.8 Medical devices
- 10.9 Others

CHAPTER 11 MARKET ESTIMATES & FORECAST, BY END USE INDUSTRY,

2021-2032 (USD BILLION)

- 11.1 Key trends
- 11.2 Telecommunications
- 11.3 Aerospace & defense
- 11.4 Consumer electronics
- 11.5 Automotive
- 11.6 Industrial
- 11.7 IT & networking
- 11.8 Healthcare
- 11.9 Others

CHAPTER 12 MARKET ESTIMATES & FORECAST, BY REGION, 2021-2032 (USD BILLION)

- 12.1 Key trends
- 12.2 North America
 - 12.2.1 U.S.
 - 12.2.2 Canada
- 12.3 Europe
 - 12.3.1 UK
 - 12.3.2 Germany
 - 12.3.3 France
 - 12.3.4 Italy
 - 12.3.5 Spain
 - 12.3.6 Russia
- 12.4 Asia Pacific
 - 12.4.1 China
 - 12.4.2 India
 - 12.4.3 Japan
 - 12.4.4 South Korea
 - 12.4.5 Australia
- 12.5 Latin America
 - 12.5.1 Brazil
 - 12.5.2 Mexico
- 12.6 MEA
 - 12.6.1 South Africa
 - 12.6.2 Saudi Arabia
 - 12.6.3 UAE

CHAPTER 13 COMPANY PROFILES

- 13.1 Amphenol Corporation
- 13.2 Anritsu Corporation
- 13.3 AVX Corporation
- 13.4 Belden Inc.
- 13.5 Bomar Interconnect Products, Inc.
- 13.6 Carlisle Interconnect Technologies
- 13.7 Corning Optical Communications
- 13.8 Delta Electronics, Inc.
- 13.9 Digi-Key Electronics
- 13.10 Hirose Electric Co., Ltd.
- 13.11 HUBER+SUHNER
- 13.12 JAE (Japan Aviation Electronics Industry, Ltd.)
- 13.13 Johanson Technology, Inc.
- 13.14 L-com Global Connectivity
- 13.15 Molex, LLC
- 13.16 Pasternack Enterprises Inc.
- 13.17 Radiall SA
- 13.18 RF Industries, Ltd.
- 13.19 Rosenberger Hochfrequenztechnik GmbH & Co. KG
- 13.20 Samtec Inc.
- 13.21 Smiths Interconnect
- 13.22 TE Connectivity Ltd.
- 13.23 W.L. Gore & Associates, Inc.

I would like to order

Product name: RF Connectors Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

Product link: <https://marketpublishers.com/r/RA0A43930B9BEN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/RA0A43930B9BEN.html>