

# Global Millimeter Wave (MmWave) Beamforming IC Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G57877FD6405EN.html>

Date: November 2025

Pages: 110

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

ID: G57877FD6405EN

## Abstracts

According to our (Global Info Research) latest study, the global Millimeter Wave (MmWave) Beamforming IC market size was valued at US\$ 368 million in 2024 and is forecast to a readjusted size of USD 653 million by 2031 with a CAGR of 8.4% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A Millimeter Wave (MmWave) Beamforming IC is an integrated circuit specifically designed to operate in the millimeter wave frequency range, typically spanning from 30 GHz to 300 GHz. It is engineered to manipulate and control the direction and intensity of electromagnetic waves transmitted or received by an antenna array. Through a process called beamforming, the IC adjusts the phase and amplitude of the signals sent to or received from each individual antenna element within the array. This enables the creation of a focused beam of electromagnetic energy that can be steered in different directions, enhancing the signal strength in the desired direction while reducing interference and signal loss in other directions. MmWave Beamforming ICs are crucial components in modern wireless communication systems, such as 5G and beyond, where they help improve data rates, increase network capacity, and enable reliable communication over relatively short distances by compensating for the higher propagation losses associated with millimeter wave frequencies. They are also used in applications like radar systems, automotive sensing, and satellite communications, providing precise control over the electromagnetic wave propagation for better performance and functionality.

This report is a detailed and comprehensive analysis for global Millimeter Wave (MmWave) Beamforming IC market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Millimeter Wave (MmWave) Beamforming IC market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Millimeter Wave (MmWave) Beamforming IC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Millimeter Wave (MmWave) Beamforming IC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Millimeter Wave (MmWave) Beamforming IC market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Millimeter Wave (MmWave) Beamforming IC
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Millimeter Wave (MmWave) Beamforming IC market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NXP Semiconductors, Renesas, Analog Devices, Anokiwave, Sivers Semiconductors, Otava,

Peraso Technologies, Icana, Tusk-IC, Qorvo, etc.

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

## **Market Segmentation**

Millimeter Wave (MmWave) Beamforming IC market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### **Market segment by Type**

Single - channel Beamforming IC

Multi - channel Beamforming IC

### **Market segment by Application**

Telecom

Automotive Radar

Defense

Others

### **Major players covered**

NXP Semiconductors

Renesas

Analog Devices

Anokiwave

Sivers Semiconductors

Otava

Peraso Technologies

Icana

Tusk-IC

Qorvo

Akronic

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 Millimeter Wave (MmWave) Beamforming IC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Millimeter Wave (MmWave) Beamforming IC, with price, sales quantity, revenue, and global market share of Millimeter Wave (MmWave) Beamforming IC from 2020 to 2025.

Chapter 3, the Millimeter Wave (MmWave) Beamforming IC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Millimeter Wave (MmWave) Beamforming IC breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and Millimeter Wave (MmWave) Beamforming IC market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Millimeter Wave (MmWave) Beamforming IC.

Chapter 14 and 15, to describe Millimeter Wave (MmWave) Beamforming IC sales channel, distributors, customers, research findings and conclusion.

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