

Global Millimeter-wave Low-noise Amplifier Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GF108950307CEN.html>

Date: May 2026

Pages: 121

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

ID: GF108950307CEN

Abstracts

According to our (Global Info Research) latest study, the global Millimeter-wave Low-noise Amplifier market size was valued at US\$ 630 million in 2025 and is forecast to a readjusted size of US\$ 1146 million by 2032 with a CAGR of 8.9% during review period.

In 2025, global sales of millimeter-wave low-noise amplifiers (LNAs) reached 720,000 units, with an average selling price of \$850 per unit. A millimeter-wave LNA is an electronic device specifically designed for amplifying signals in the high-frequency millimeter-wave band (30 GHz to 300 GHz), widely used in communications, radar, satellites, wireless sensor networks, and deep space exploration. This device can effectively amplify signals at extremely high frequencies while maintaining a low noise figure, making it a crucial component of millimeter-wave systems. Its working principle involves amplifying the power of an input radio frequency signal while maintaining signal clarity for subsequent processing.

Upstream raw materials mainly include high-performance semiconductor materials (such as gallium nitride (GaN) and gallium arsenide (GaAs)) and high-frequency circuit components. The downstream supply chain primarily serves communication equipment manufacturers, aerospace companies, satellite communication companies, and research institutions. Global total production capacity is approximately 800,000 units per year, with an average industry gross margin of approximately 38%-45%, with higher gross margins for high-end customized products. Downstream consumption is largest in the communications sector, followed by aerospace and satellite, with the remainder used in radar and wireless sensor networks.

The future lies in developing towards higher frequency bands, smaller size, and higher

integration, while integrating AI algorithms to improve noise suppression and signal processing capabilities. In terms of demand and business opportunities, with the advancement of 5G and future 6G network construction, the demand for millimeter-wave communication will increase significantly. Coupled with the driving force of emerging technologies such as the Internet of Things, intelligent transportation, and autonomous driving, millimeter-wave low-noise amplifiers have enormous market potential in the future, especially in intelligent and unmanned application scenarios, where they still have broad growth prospects.

Millimeter-wave low-noise amplifiers (LNAs), as core components of high-frequency communication and detection systems, are experiencing unprecedented market opportunities with the rapid development of 5G and future 6G communication networks. The high bandwidth of the millimeter-wave band gives it significant advantages in data transmission speed and system capacity, leading to a surge in demand for millimeter-wave LNAs in fields such as communications, radar, satellite, and aerospace. Especially in 5G network construction, millimeter-wave technology provides crucial support for high-speed, low-latency communication, making millimeter-wave LNAs an indispensable part of network infrastructure.

Furthermore, with the rise of emerging technologies such as the Internet of Things (IoT), autonomous driving, intelligent transportation, and high-precision radar systems, the application scenarios for millimeter-wave LNAs are constantly expanding. These technologies place higher demands on high-frequency signal processing capabilities, driving the demand for higher-performance, smaller, and lower-power millimeter-wave LNAs. Meanwhile, the future construction of 6G networks will significantly increase the use of the millimeter-wave band, further amplifying the market demand for millimeter-wave LNAs.

However, despite the broad market prospects for millimeter-wave LNAs, high cost, technological barriers, and stringent material requirements remain challenges to the development of this field. To meet market demand, companies need to increase investment in technological research and development, drive breakthroughs in integration and high-frequency technologies, and reduce production costs to satisfy the growing global demand. Therefore, millimeter-wave low-noise amplifiers not only play a crucial role in existing communication systems but will also play an increasingly important role in future communication technologies, smart devices, and automation systems.

This report is a detailed and comprehensive analysis for global Millimeter-wave Low-

noise Amplifier 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 Low-noise Amplifier market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Millimeter-wave Low-noise Amplifier market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Millimeter-wave Low-noise Amplifier market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Millimeter-wave Low-noise Amplifier market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Low-noise Amplifier

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 Low-noise Amplifier 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 Qualwave, Millimeter Wave Products,

Mini-Circuits, QuinStar, Narda-MITEQ, Broadcom, MACOM, Chengdu Leader Microwave Technology Co.,Ltd., Talent Microwave, Chengchang, etc.

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

Market Segmentation

Millimeter-wave Low-noise Amplifier market is split by Type and by Application. For the period 2021-2032, 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

Ka Band

QV Band

E Band

W Band

Others

Market segment by Interface Type

Waveguide Interface

Coaxial Interface

Market segment by Encapsulation Type

Surface Mount Technology (SMT)

Hermetically Sealed Metal Package

Market segment by Application

Communications

Automotive Radar

Defense

Others

Major players covered

Qualwave

Millimeter Wave Products

Mini-Circuits

QuinStar

Narda-MITEQ

Broadcom

MACOM

Chengdu Leader Microwave Technology Co.,Ltd.

Talent Microwave

Chengchang

B&Z Technologies

Hengweiqi

Eravant

Spacek Labs, Incorporated

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 Low-noise Amplifier product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Millimeter-wave Low-noise Amplifier, with price, sales quantity, revenue, and global market share of Millimeter-wave Low-noise Amplifier from 2021 to 2026.

Chapter 3, the Millimeter-wave Low-noise Amplifier competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Millimeter-wave Low-noise Amplifier breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Millimeter-wave Low-noise Amplifier market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Low-noise Amplifier.

Chapter 14 and 15, to describe Millimeter-wave Low-noise Amplifier sales channel, distributors, customers, research findings and conclusion.

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