

Global Ultra-Low Phase Noise Microwave Source Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Ultra-Low Phase Noise Microwave Source market size was valued at US\$ 224 million in 2025 and is forecast to a readjusted size of US\$ 353 million by 2032 with a CAGR of 6.6% during review period.

In 2025, global ultra-low phase noise microwave sources production reached approximately 198 k units, the average price is 1100 usd/unit. Ultra-low phase noise microwave sources refer to high-precision signal sources with output frequencies in the microwave band and phase noise performance significantly better than conventional frequency synthesizers. They are generally implemented through architectures such as low-noise crystal oscillator reference + low-noise PLL + frequency multiplier/divider chain or optical frequency comb/PDRO. The phase noise at a specified frequency offset can reach the order of -160 dBc/Hz or even lower, making them key local oscillators and excitation sources for scenarios such as radar, satellite communication, quantum experiments and metrology calibration.

The gross profit margin of ultra-low phase noise microwave sources is around 28%.

This report is a detailed and comprehensive analysis for global Ultra-Low Phase Noise Microwave Source market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Channel 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 Ultra-Low Phase Noise Microwave Source market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra-Low Phase Noise Microwave Source 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 Ultra-Low Phase Noise Microwave Source market size and forecasts, by Channel and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Ultra-Low Phase Noise Microwave Source 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 Ultra-Low Phase Noise Microwave Source

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 Ultra-Low Phase Noise Microwave Source 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 Keysight, Rohde & Schwarz, Anritsu, Maury Microwave, Berkeley Nucleonics, Tabor Electronics, SignalCore, Micro Lambda Wireless, Quantic Electronics, Menlo Systems, etc.

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

Market Segmentation

Ultra-Low Phase Noise Microwave Source market is split by Channel and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Channel, 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 Channel

Single-channel Source

Dual-channel Source

Multi-channel Source

Market segment by Frequency

1?20 GHz

20?40 GHz

40-67 GHz

Above 67 GHz

Market segment by Application

Satellite Communication

Radar System

Quantum Computing

Others

Major players covered

Keysight

Rohde & Schwarz

Anritsu

Maury Microwave

Berkeley Nucleonics

Tabor Electronics

SignalCore

Micro Lambda Wireless

Quantic Electronics

Menlo Systems

OEwaves

Beijing Ising Intelligent Technology

Sinolink Technologies

Sample Technology (Shanghai)

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 Ultra-Low Phase Noise Microwave Source product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ultra-Low Phase Noise Microwave Source, with price, sales quantity, revenue, and global market share of Ultra-Low Phase Noise Microwave Source from 2021 to 2026.

Chapter 3, the Ultra-Low Phase Noise Microwave Source competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Ultra-Low Phase Noise Microwave Source 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 Channel and by Application, with sales market share and growth rate by Channel, 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 Ultra-Low Phase Noise Microwave Source market forecast, by regions, by Channel, 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 Ultra-Low Phase Noise Microwave Source.

Chapter 14 and 15, to describe Ultra-Low Phase Noise Microwave Source sales channel, distributors, customers, research findings and conclusion.

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