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Global Millimeter-Wave Converter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Millimeter-Wave Converter market size is expected to reach $ 281 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

In 2025, global millimeter-wave converter production reached approximately 1031 k units, the average price is 180 usd/unit. Millimeter-wave converters typically refer to frequency conversion devices or modules that operate in the millimeter-wave band. They are used to shift low-frequency baseband/intermediate frequency signals to millimeter-wave carriers or downconvert millimeter-wave signals to processable intermediate frequencies/baseband. They can also refer to a combination unit of mixer/frequency multiplier + local oscillator chain in a transceiver chain. Their core function is to realize spectrum shifting and interface adaptation for antenna radiation, link transmission, and subsequent demodulation processing.

Market Concentration and Major Players:

Internationally, the millimeter-wave converter market is highly concentrated, primarily in developed countries such as Europe, the US, and Japan. Large manufacturers include NDK and Rohde & Schwarz. Domestically, the millimeter-wave converter market still has significant room for growth.

Manufacturing Process and Market Trends:

Millimeter-wave converters first integrate the mixer-amplifier chain into a GaAs/GaN or SiGe BiCMOS MMIC, following the wafer fabrication process of epitaxial growth, shallow junction gate metallization, and low-parasitic passive integration. The chip is then flush-mounted into a metal cavity using eutectic bonding or low-temperature

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soldering. Parasitic packaging is held in place by extremely short bonding or flip-chip bonding. Microstrip waveguide transition cavity shielding and seam sealing determine the final isolation and phase stability. Consistency is maintained at the factory through temperature cycling aging and vector network calibrator traceability.

The global driving force is mainly in satellite communication KaE/V band links and Eband backhaul defense broadband, which are sensitive to spectrum relocation and link budgets. At the same time, cost pressures are pushing mid-band usage towards silicon-based single-chip or SiP/AiP heterogeneous integration with fewer SKU platforms, while high-power, high-linearity angle still adheres to the GaN waveguide-level discrete route, forming a layered pattern.

This report studies the global Millimeter-Wave Converter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Millimeter-Wave Converter and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Millimeter-Wave Converter that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Millimeter-Wave Converter total production and demand, 2021-2032, (K Units)
Global Millimeter-Wave Converter total production value, 2021-2032, (USD Million)
Global Millimeter-Wave Converter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Millimeter-Wave Converter consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Millimeter-Wave Converter domestic production, consumption, key domestic manufacturers and share
Global Millimeter-Wave Converter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Millimeter-Wave Converter production by Port, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Millimeter-Wave Converter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Millimeter-Wave Converter market based on the following parameters - company overview, production, value, price, gross margin,

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product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include L3Harris Technologies (USA), Nihon Dempa Kogyo (Japan), Spacek Labs (USA), Rohde & Schwarz (Germany), ELVA-1 (Estonia), Eravant (USA), Virginia Diodes (USA), QuinStar (USA), Farran (Ireland), Keysight (USA), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Millimeter-Wave Converter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Port, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Millimeter-Wave Converter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global Millimeter-Wave Converter Market, Segmentation by Port:

Two-Port

Four-Port

Global Millimeter-Wave Converter Market, Segmentation by Frequency Band:

24?40 GHz

40?75 GHz

75?110 GHz

110?170 GHz

Above 170 GHz

Global Millimeter-Wave Converter Market, Segmentation by Conversion:

Up-converter

Down-converter

Global Millimeter-Wave Converter Market, Segmentation by Application:

Communication and Wireless Networks

Radar and Wireless Sensors

Astronomical Observation

Scientific Research

Companies Profiled:

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L3Harris Technologies (USA)

Nihon Dempa Kogyo (Japan)

Spacek Labs (USA)

Rohde & Schwarz (Germany)

ELVA-1 (Estonia)

Eravant (USA)

Virginia Diodes (USA)

QuinStar (USA)

Farran (Ireland)

Keysight (USA)

Mi-Wave (USA)

Key Questions Answered:
1. How big is the global Millimeter-Wave Converter market?
2. What is the demand of the global Millimeter-Wave Converter market?
3. What is the year over year growth of the global Millimeter-Wave Converter market?
4. What is the production and production value of the global Millimeter-Wave Converter market?
5. Who are the key producers in the global Millimeter-Wave Converter market?
6. What are the growth factors driving the market demand?

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