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Monolithic Microwave IC Market by Component (Power Amplifiers, Low Noise Amplifiers, Switches), Material Type (GaAs, InP, GaN), Frequency Band (L, S, C, X, Ku, K, Ka, V, W), Technology (MESFET, HEMT, pHEMT, mHEMT, E- pHEMT) - Global Forecast to 2030

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Abstracts

The global monolithic microwave IC market is expected to grow from USD 14.53 billion in 2025 to USD 23.91 billion by 2030 at a CAGR of 10.5% during the forecast period 2025–2030 growing adoption of MMICs in the automotive sector. The automotive sector is growing at a rapidly driven by the increasing demand for more advanced technologies in vehicle systems such ADAS (Advanced Driver Assistance System). the market growth for ADAS is driven by the increasing demand for electric and autonomous vehicles, eventually favoring the market MMICs.

“Market for power amplifiers segment is projected to account for largest market share during the forecast timeline”

The growth is primarily driven by the increasing demand for high-performance power amplifiers in telecommunications. As these networks require efficient signal amplification to support high data rates and bandwidth, power amplifiers become essential components in base stations and other communication infrastructure. Besides this, the continuous upgrading of the semiconductor technology including the Gallium Nitride (GaN) innovation has even improved power amplifier performance and efficiency, thus stimulating higher demands further boosting their adoption.

“Market for gallium arsenide segment is projected to account for largest market share during the forecast timeline.”

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The dominant position of gallium arsenide segment can be attributed to its enhanced performance characteristics such as high efficiency, low noise figure, and thermal stability which makes it ideal for applications in the area of high frequencies. Such applications are in the wireless communication and radar systems areas and aerospace technologies. Advances in the fabrication processes used in producing MMICs enhance their performance and reliability and hence fuel increased demand for GaAs-based MMICs. In addition, the increasing demand for compact and efficient electronic devices in various industries is driving the adoption of GaAs technology.

“China is expected to account for largest market share in Asia Pacific during the forecast period.”

China is a global manufacturing hub with a flourishing electronics industry and one of the fastest-growing economies in the world. The increase in industrial automation in China is fueling the demand for microwave devices in the country. The Government of China launched 'Made in China 2025' initiative, to upgrade the semiconductors industry in the country. This initiative has helped the government focus on supporting 70% of its IC market by 2025. About 20 local governments have set up guidance funds reaching an overall investment plan worth over USD 90 billion. Also, according to this plan, the development of intelligent and connected vehicles is the major focus of the automotive industry in China. Factors such as the rise in defense spending increased focus of the government on the automotive industry, and scientific and technological developments in MMICs are leading to the growth of the MMIC market in China.

In-depth interviews have been conducted with chief executive officers (CEOs), Directors, and other executives from various key organizations operating in the monolithic microwave IC marketplace. The break-up of the profile of primary participants in the monolithic microwave IC market:

By Company Type: Tier 1 – 38%, Tier 2 – 28%, and Tier 3 – 34%

By Designation: Managers – 30%, Director Level – 40%, Others-30%

By Region: North America – 35%, Europe – 35%, Asia Pacific – 20%, ROW-10%

Qorvo, Inc. (US), MACOM (US), Skyworks Solutions, Inc. (US), NXP Semiconductors (Netherlands), Analog Devices, Inc. (US), Infineon Technologies AG (Germany), WIN

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Semiconductors (China), United Monolithic Semiconductors (France), Mini-Circuits (US), Keysight Technologies (US), VECTRAWAVE (France), BeRex (South Korea), Reliasat (UK), Semiconductor Components Industries, LLC (US), and MicroWave Technology, Inc. (US), are some of the key players in the monolithic microwave IC market.

The study includes an in-depth competitive analysis of these key players in the monolithic microwave IC market, with their company profiles, recent developments, and key market strategies. Research Coverage: This research report categorizes the monolithic microwave IC market by componet (Power Amplifie, Low-noise Amplifiers, Attenuators , Switches, Phase Shifters, Mixers, Voltage-controlled Oscillators, Frequency Multipliers), by material type (Gallium Arsenide, Indium Phosphide, Indium Gallium Phosphide, Silicon Germanium , Gallium Nitride), by element (Metal-Semiconductor Field-Effect Transistor, High Electron Mobility Transistors, Pseudomorphic High Electron Mobility Transistors, Enhancement-Mode Pseudomorphic High Electron Mobility Transistors, Metamorphic High Electron Mobility Transistors, Heterojunction Bipolar Transistors, Metal-Oxide Semiconductor), by frequency band (L BAND (1–2 GHZ), S BAND (2–4 GHZ), C BAND (4–8 GHZ), X BAND (8–12 GHZ), KU BAND (12–18 GHZ), K BAND (18–27 GHZ), KA BAND (26.5–40 GHZ), V BAND (40–75 GHZ), W BAND (75–110 GHZ), by application (Consumer/Enterprise Electronics, Wireless Communication Infrastructure, Automotive, Aerospace and Defense, CATV and Wired Broadband, Test and Measurement, Others) and by region (North America, Europe, Asia Pacific, and RoW).

The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the monolithic microwave IC market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, and services; key strategies; Contracts, partnerships, agreements. New product & service launches, mergers and acquisitions, and recent developments associated with the monolithic microwave IC market have been covered in the report. This report covers a competitive analysis of upcoming startups in the monolithic microwave IC market ecosystem.

Reasons to buy this report The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall monolithic microwave IC market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and to plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key

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market drivers, restraints, challenges, and opportunities.

Key benefits of buying the report:

Analysis of key drivers (R Rising demand for MMICs from smartphone industry, Surging adoption of K-band & ka-band frequency band to meet increasing bandwidth requirements of cellular and wireless networks, Growing adoption of MMICs in automotive sector, Increasing defense spending by countries to upgrade their defense inventories, Growing adoption of next-generation warfare techniques.), restraints (High development costs of MMICs), opportunities (Growing preference for compact and miniaturized devices , Increase in number of space programs worldwide) and challenges (Designing robust MMICs) influencing the growth of the monolithic microwave IC market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the monolithic microwave IC.

Market Development: Comprehensive information about lucrative markets – the report analysis the monolithic microwave IC market across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the monolithic microwave IC market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading Qorvo, Inc. (US), MACOM (US), Skyworks Solutions, Inc. (US), NXP Semiconductors (Netherlands), Analog Devices, Inc. (US), Infineon Technologies AG (Germany), WIN Semiconductors (China), United Monolithic Semiconductors (France), Mini-Circuits (US), Keysight Technologies (US), VECTRAWAVE (France), BeRex (South Korea), Reliasat (UK), Semiconductor Components Industries, LLC (US), and MicroWave Technology, Inc. (US) market.

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7 MONOLITHIC MICROWAVE IC MARKET, BY MATERIAL TYPE

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