

# Global GaAs MMIC Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G2126F41B282EN.html>

Date: May 2026

Pages: 170

Price: US\$ 4,480.00 (Single User License)

ID: G2126F41B282EN

## Abstracts

The global GaAs MMIC market size is expected to reach \$ 3467 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

GaAs MMIC is an RF device family that integrates microwave and millimeter-wave front-end functions onto a single gallium arsenide chip. Its core purpose is to achieve lower noise, higher gain, better linearity, smaller size, and stronger consistency at higher frequencies, thereby replacing discrete microwave approaches that are larger, harder to assemble, and less consistent in volume production. Based on official product pages from multiple vendors, this product family typically includes low-noise amplifiers, driver amplifiers, power amplifiers, RF switches, mixers, equalizers, limiters, and multifunction chips, while also extending to wafer foundry and custom design services built on platforms such as pHEMT, HBT, and BiHEMT. Its typical applications are concentrated in satellite communications, wireless infrastructure, point-to-point microwave links, GNSS reception, FTTH and CATV broadband access, radar, electronic warfare, test and measurement, and 5G millimeter-wave systems. Major customers include RF design houses, communications equipment vendors, defense and aerospace system suppliers, module makers, and high-frequency front-end solution providers. Common delivery formats include standard part numbers, packaged devices, bare die, product-family catalog offerings, and foundry platform services, while the main business models include standard product sales, custom development, NRE plus volume production, and wafer foundry services. Official pages show that the value of GaAs MMIC lies not only in putting amplification or switching onto one chip, but in balancing performance, size, reliability, manufacturability, and system integration efficiency within high-frequency links, which is why it remains both a foundational device for high-reliability satellite and defense front ends and a mature high-frequency platform for wireless access, consumer connectivity, and broadband infrastructure.

The essence of the GaAs MMIC industry is not the replacement of a single discrete component, but the continued move toward single-chip integration and higher reliability in high-frequency front-end architectures. Official product pages show that this field has already formed a complete device family spanning low-noise amplifiers, driver amplifiers, power amplifiers, RF switches, mixers, equalizers, limiters, and multifunction chips. As a result, it does not serve only one vertical market, but rather a full set of high-frequency signal reception, transmission, switching, frequency-conversion, and compensation requirements. More importantly, these chips appear simultaneously in GNSS, wireless infrastructure, FTTH, CATV, satellite communications, radar, electronic warfare, test and measurement, and millimeter-wave systems. That means the industry benefits both from high-end, high-margin aerospace and defense demand and from more stable-volume access and connectivity markets. As long as high-frequency systems still need to balance size, noise, power, linearity, and consistency, GaAs MMIC will not be easily displaced and will continue to exist as a mature platform that offers an attractive balance between performance and cost in RF front ends.

From a competitive standpoint, GaAs MMIC is not simply a standardized parts market where vendors compete only on specifications. It is an industry that clearly depends on process platforms, delivery formats, and customer collaboration. Catalog-based suppliers can cover more frequency bands and use cases through broad part portfolios, custom design firms can increase value per customer through system-level collaboration, and wafer foundry platforms can occupy a stickier position in the value chain through stable process control, testing capability, and manufacturing execution. A pure-play platform such as WIN shows that the industry is not limited to branded chip vendors selling finished parts, while a vertically integrated company such as Transcom shows that combining design and manufacturing remains highly competitive. Together with custom design providers such as VIPER RF, high-frequency die suppliers such as UMS, passive MMIC specialists such as Marki, and infrastructure-oriented suppliers such as Sanland and RFHIC, the industry has developed a multi-layered commercial ecosystem in which standard products, custom products, foundry services, and catalog-based offerings coexist. That structure makes the industry more resilient and better able to maintain diversified revenue streams across different cycles.

Looking ahead, the optimistic case for GaAs MMIC rests on three main forces. First, satellite communications, space systems, radar, and millimeter-wave wireless are pushing operating frequencies higher, which should continue to expand demand for front-end chips in the Ka-band, E-band, and beyond. Second, both the United States and the European Union are using semiconductor policy to strengthen domestic R&D,

manufacturing, and supply-chain resilience, which should improve access to capital and production security for high-frequency chip industries. Third, the geographic division of labor in the industry is already quite clear. North America leads in defense, aerospace, and high-end microwave, Europe retains specialized high-frequency capability, and East Asia has formed a dense cluster around power amplifiers, access devices, foundry services, and scaled manufacturing. This supply-side structure is not a weakness. Instead, it makes GaAs MMIC more capable of serving diverse global demand. On the demand side, end markets are layered by application, but official pages clearly show that professional communications, consumer connectivity, and broadband access coexist on the same technology platform. That gives the industry both a technology-upgrade growth engine and an application-expansion growth engine, supporting an overall positive outlook.

This report studies the global GaAs MMIC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GaAs MMIC 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 GaAs MMIC that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global GaAs MMIC total production and demand, 2021-2032, (K Pcs)

Global GaAs MMIC total production value, 2021-2032, (USD Million)

Global GaAs MMIC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global GaAs MMIC consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: GaAs MMIC domestic production, consumption, key domestic manufacturers and share

Global GaAs MMIC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global GaAs MMIC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global GaAs MMIC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global GaAs MMIC market based on the following parameters - company overview, production, value, price, gross margin, product

portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mini-Circuits, Qorvo, Analog Devices, Microchip Technology, MACOM, California Eastern Laboratories, Skyworks Solutions, Inc., Northrop Grumman, United Monolithic Semiconductors SAS, Marki Microwave, 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 GaAs MMIC market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Type, 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 GaAs MMIC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GaAs MMIC Market, Segmentation by Type:

HEMTs Type

HBT Type

MESFETs Type

Global GaAs MMIC Market, Segmentation by Company Role:

Integrated Design And Manufacturing

Wafer Foundry

Other

Global GaAs MMIC Market, Segmentation by Function Type:

Amplifier

Switch

Other Functions

Global GaAs MMIC Market, Segmentation by Application:

Consumer Electronics

Military

Communication

Radar

Others

Companies Profiled:

Mini-Circuits

Qorvo

Analog Devices

Microchip Technology

MACOM

California Eastern Laboratories

Skyworks Solutions, Inc.

Northrop Grumman

United Monolithic Semiconductors SAS

Marki Microwave

VIPER RF

Sumitomo Electric Device Innovations, Inc.

Nisshinbo Micro Devices Inc.

Renesas Electronics Corporation

RFHIC Corporation

WAVEPIA Co., Ltd.

Hefei IC Valley Microelectronics Co., Ltd.

Shenzhen SDSX Technology Co., Ltd.

Shenzhen Sanland Technology Co., Ltd.

Transcom, Inc.

WIN Semiconductors Corp.

E-CMOS Co., Ltd.

Ultraband Technologies

**Key Questions Answered:**

1. How big is the global GaAs MMIC market?
2. What is the demand of the global GaAs MMIC market?
3. What is the year over year growth of the global GaAs MMIC market?
4. What is the production and production value of the global GaAs MMIC market?
5. Who are the key producers in the global GaAs MMIC market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 GaAs MMIC Introduction
- 1.2 World GaAs MMIC Supply & Forecast
  - 1.2.1 World GaAs MMIC Production Value (2021 & 2025 & 2032)
  - 1.2.2 World GaAs MMIC Production (2021-2032)
  - 1.2.3 World GaAs MMIC Pricing Trends (2021-2032)
- 1.3 World GaAs MMIC Production by Region (Based on Production Site)
  - 1.3.1 World GaAs MMIC Production Value by Region (2021-2032)
  - 1.3.2 World GaAs MMIC Production by Region (2021-2032)
  - 1.3.3 World GaAs MMIC Average Price by Region (2021-2032)
  - 1.3.4 North America GaAs MMIC Production (2021-2032)
  - 1.3.5 Europe GaAs MMIC Production (2021-2032)
  - 1.3.6 China GaAs MMIC Production (2021-2032)
  - 1.3.7 Japan GaAs MMIC Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 GaAs MMIC Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 GaAs MMIC Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World GaAs MMIC Demand (2021-2032)
- 2.2 World GaAs MMIC Consumption by Region
  - 2.2.1 World GaAs MMIC Consumption by Region (2021-2026)
  - 2.2.2 World GaAs MMIC Consumption Forecast by Region (2027-2032)
- 2.3 United States GaAs MMIC Consumption (2021-2032)
- 2.4 China GaAs MMIC Consumption (2021-2032)
- 2.5 Europe GaAs MMIC Consumption (2021-2032)
- 2.6 Japan GaAs MMIC Consumption (2021-2032)
- 2.7 South Korea GaAs MMIC Consumption (2021-2032)
- 2.8 ASEAN GaAs MMIC Consumption (2021-2032)
- 2.9 India GaAs MMIC Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World GaAs MMIC Production Value by Manufacturer (2021-2026)

- 3.2 World GaAs MMIC Production by Manufacturer (2021-2026)
- 3.3 World GaAs MMIC Average Price by Manufacturer (2021-2026)
- 3.4 GaAs MMIC Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global GaAs MMIC Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for GaAs MMIC in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for GaAs MMIC in 2025
- 3.6 GaAs MMIC Market: Overall Company Footprint Analysis
  - 3.6.1 GaAs MMIC Market: Region Footprint
  - 3.6.2 GaAs MMIC Market: Company Product Type Footprint
  - 3.6.3 GaAs MMIC Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: GaAs MMIC Production Value Comparison
  - 4.1.1 United States VS China: GaAs MMIC Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: GaAs MMIC Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: GaAs MMIC Production Comparison
  - 4.2.1 United States VS China: GaAs MMIC Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: GaAs MMIC Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: GaAs MMIC Consumption Comparison
  - 4.3.1 United States VS China: GaAs MMIC Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: GaAs MMIC Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based GaAs MMIC Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based GaAs MMIC Manufacturers, Headquarters and Production Site (States, Country)
  - 4.4.2 United States Based Manufacturers GaAs MMIC Production Value (2021-2026)

- 4.4.3 United States Based Manufacturers GaAs MMIC Production (2021-2026)
- 4.5 China Based GaAs MMIC Manufacturers and Market Share
  - 4.5.1 China Based GaAs MMIC Manufacturers, Headquarters and Production Site (Province, Country)
  - 4.5.2 China Based Manufacturers GaAs MMIC Production Value (2021-2026)
  - 4.5.3 China Based Manufacturers GaAs MMIC Production (2021-2026)
- 4.6 Rest of World Based GaAs MMIC Manufacturers and Market Share, 2021-2026
  - 4.6.1 Rest of World Based GaAs MMIC Manufacturers, Headquarters and Production Site (State, Country)
  - 4.6.2 Rest of World Based Manufacturers GaAs MMIC Production Value (2021-2026)
  - 4.6.3 Rest of World Based Manufacturers GaAs MMIC Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

- 5.1 World GaAs MMIC Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
  - 5.2.1 HEMTs Type
  - 5.2.2 HBT Type
  - 5.2.3 MESFETs Type
- 5.3 Market Segment by Type
  - 5.3.1 World GaAs MMIC Production by Type (2021-2032)
  - 5.3.2 World GaAs MMIC Production Value by Type (2021-2032)
  - 5.3.3 World GaAs MMIC Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY COMPANY ROLE**

- 6.1 World GaAs MMIC Market Size Overview by Company Role: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Company Role
  - 6.2.1 Integrated Design And Manufacturing
  - 6.2.2 Wafer Foundry
  - 6.2.3 Other
- 6.3 Market Segment by Company Role
  - 6.3.1 World GaAs MMIC Production by Company Role (2021-2032)
  - 6.3.2 World GaAs MMIC Production Value by Company Role (2021-2032)
  - 6.3.3 World GaAs MMIC Average Price by Company Role (2021-2032)

## **7 MARKET ANALYSIS BY FUNCTION TYPE**

7.1 World GaAs MMIC Market Size Overview by Function Type: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Function Type

7.2.1 Amplifier

7.2.2 Switch

7.2.3 Other Functions

7.3 Market Segment by Function Type

7.3.1 World GaAs MMIC Production by Function Type (2021-2032)

7.3.2 World GaAs MMIC Production Value by Function Type (2021-2032)

7.3.3 World GaAs MMIC Average Price by Function Type (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World GaAs MMIC Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Consumer Electronics

8.2.2 Military

8.2.3 Communication

8.2.4 Radar

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World GaAs MMIC Production by Application (2021-2032)

8.3.2 World GaAs MMIC Production Value by Application (2021-2032)

8.3.3 World GaAs MMIC Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Mini-Circuits

9.1.1 Mini-Circuits Details

9.1.2 Mini-Circuits Major Business

9.1.3 Mini-Circuits GaAs MMIC Product and Services

9.1.4 Mini-Circuits GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Mini-Circuits Recent Developments/Updates

9.1.6 Mini-Circuits Competitive Strengths & Weaknesses

9.2 Qorvo

9.2.1 Qorvo Details

9.2.2 Qorvo Major Business

9.2.3 Qorvo GaAs MMIC Product and Services

9.2.4 Qorvo GaAs MMIC Production, Price, Value, Gross Margin and Market Share

(2021-2026)

9.2.5 Qorvo Recent Developments/Updates

9.2.6 Qorvo Competitive Strengths & Weaknesses

9.3 Analog Devices

9.3.1 Analog Devices Details

9.3.2 Analog Devices Major Business

9.3.3 Analog Devices GaAs MMIC Product and Services

9.3.4 Analog Devices GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Analog Devices Recent Developments/Updates

9.3.6 Analog Devices Competitive Strengths & Weaknesses

9.4 Microchip Technology

9.4.1 Microchip Technology Details

9.4.2 Microchip Technology Major Business

9.4.3 Microchip Technology GaAs MMIC Product and Services

9.4.4 Microchip Technology GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Microchip Technology Recent Developments/Updates

9.4.6 Microchip Technology Competitive Strengths & Weaknesses

9.5 MACOM

9.5.1 MACOM Details

9.5.2 MACOM Major Business

9.5.3 MACOM GaAs MMIC Product and Services

9.5.4 MACOM GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 MACOM Recent Developments/Updates

9.5.6 MACOM Competitive Strengths & Weaknesses

9.6 California Eastern Laboratories

9.6.1 California Eastern Laboratories Details

9.6.2 California Eastern Laboratories Major Business

9.6.3 California Eastern Laboratories GaAs MMIC Product and Services

9.6.4 California Eastern Laboratories GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 California Eastern Laboratories Recent Developments/Updates

9.6.6 California Eastern Laboratories Competitive Strengths & Weaknesses

9.7 Skyworks Solutions, Inc.

9.7.1 Skyworks Solutions, Inc. Details

9.7.2 Skyworks Solutions, Inc. Major Business

9.7.3 Skyworks Solutions, Inc. GaAs MMIC Product and Services

9.7.4 Skyworks Solutions, Inc. GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Skyworks Solutions, Inc. Recent Developments/Updates

9.7.6 Skyworks Solutions, Inc. Competitive Strengths & Weaknesses

9.8 Northrop Grumman

9.8.1 Northrop Grumman Details

9.8.2 Northrop Grumman Major Business

9.8.3 Northrop Grumman GaAs MMIC Product and Services

9.8.4 Northrop Grumman GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Northrop Grumman Recent Developments/Updates

9.8.6 Northrop Grumman Competitive Strengths & Weaknesses

9.9 United Monolithic Semiconductors SAS

9.9.1 United Monolithic Semiconductors SAS Details

9.9.2 United Monolithic Semiconductors SAS Major Business

9.9.3 United Monolithic Semiconductors SAS GaAs MMIC Product and Services

9.9.4 United Monolithic Semiconductors SAS GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 United Monolithic Semiconductors SAS Recent Developments/Updates

9.9.6 United Monolithic Semiconductors SAS Competitive Strengths & Weaknesses

9.10 Marki Microwave

9.10.1 Marki Microwave Details

9.10.2 Marki Microwave Major Business

9.10.3 Marki Microwave GaAs MMIC Product and Services

9.10.4 Marki Microwave GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Marki Microwave Recent Developments/Updates

9.10.6 Marki Microwave Competitive Strengths & Weaknesses

9.11 VIPER RF

9.11.1 VIPER RF Details

9.11.2 VIPER RF Major Business

9.11.3 VIPER RF GaAs MMIC Product and Services

9.11.4 VIPER RF GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 VIPER RF Recent Developments/Updates

9.11.6 VIPER RF Competitive Strengths & Weaknesses

9.12 Sumitomo Electric Device Innovations, Inc.

9.12.1 Sumitomo Electric Device Innovations, Inc. Details

9.12.2 Sumitomo Electric Device Innovations, Inc. Major Business

- 9.12.3 Sumitomo Electric Device Innovations, Inc. GaAs MMIC Product and Services
- 9.12.4 Sumitomo Electric Device Innovations, Inc. GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Sumitomo Electric Device Innovations, Inc. Recent Developments/Updates
- 9.12.6 Sumitomo Electric Device Innovations, Inc. Competitive Strengths & Weaknesses
- 9.13 Nisshinbo Micro Devices Inc.
  - 9.13.1 Nisshinbo Micro Devices Inc. Details
  - 9.13.2 Nisshinbo Micro Devices Inc. Major Business
  - 9.13.3 Nisshinbo Micro Devices Inc. GaAs MMIC Product and Services
  - 9.13.4 Nisshinbo Micro Devices Inc. GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Nisshinbo Micro Devices Inc. Recent Developments/Updates
  - 9.13.6 Nisshinbo Micro Devices Inc. Competitive Strengths & Weaknesses
- 9.14 Renesas Electronics Corporation
  - 9.14.1 Renesas Electronics Corporation Details
  - 9.14.2 Renesas Electronics Corporation Major Business
  - 9.14.3 Renesas Electronics Corporation GaAs MMIC Product and Services
  - 9.14.4 Renesas Electronics Corporation GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 Renesas Electronics Corporation Recent Developments/Updates
  - 9.14.6 Renesas Electronics Corporation Competitive Strengths & Weaknesses
- 9.15 RFHIC Corporation
  - 9.15.1 RFHIC Corporation Details
  - 9.15.2 RFHIC Corporation Major Business
  - 9.15.3 RFHIC Corporation GaAs MMIC Product and Services
  - 9.15.4 RFHIC Corporation GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.15.5 RFHIC Corporation Recent Developments/Updates
  - 9.15.6 RFHIC Corporation Competitive Strengths & Weaknesses
- 9.16 WAVEPIA Co., Ltd.
  - 9.16.1 WAVEPIA Co., Ltd. Details
  - 9.16.2 WAVEPIA Co., Ltd. Major Business
  - 9.16.3 WAVEPIA Co., Ltd. GaAs MMIC Product and Services
  - 9.16.4 WAVEPIA Co., Ltd. GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.16.5 WAVEPIA Co., Ltd. Recent Developments/Updates
  - 9.16.6 WAVEPIA Co., Ltd. Competitive Strengths & Weaknesses
- 9.17 Hefei IC Valley Microelectronics Co., Ltd.

- 9.17.1 Hefei IC Valley Microelectronics Co., Ltd. Details
- 9.17.2 Hefei IC Valley Microelectronics Co., Ltd. Major Business
- 9.17.3 Hefei IC Valley Microelectronics Co., Ltd. GaAs MMIC Product and Services
- 9.17.4 Hefei IC Valley Microelectronics Co., Ltd. GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.17.5 Hefei IC Valley Microelectronics Co., Ltd. Recent Developments/Updates
- 9.17.6 Hefei IC Valley Microelectronics Co., Ltd. Competitive Strengths & Weaknesses
- 9.18 Shenzhen SDSX Technology Co., Ltd.
- 9.18.1 Shenzhen SDSX Technology Co., Ltd. Details
- 9.18.2 Shenzhen SDSX Technology Co., Ltd. Major Business
- 9.18.3 Shenzhen SDSX Technology Co., Ltd. GaAs MMIC Product and Services
- 9.18.4 Shenzhen SDSX Technology Co., Ltd. GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.18.5 Shenzhen SDSX Technology Co., Ltd. Recent Developments/Updates
- 9.18.6 Shenzhen SDSX Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.19 Shenzhen Sanland Technology Co., Ltd.
- 9.19.1 Shenzhen Sanland Technology Co., Ltd. Details
- 9.19.2 Shenzhen Sanland Technology Co., Ltd. Major Business
- 9.19.3 Shenzhen Sanland Technology Co., Ltd. GaAs MMIC Product and Services
- 9.19.4 Shenzhen Sanland Technology Co., Ltd. GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.19.5 Shenzhen Sanland Technology Co., Ltd. Recent Developments/Updates
- 9.19.6 Shenzhen Sanland Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.20 Transcom, Inc.
- 9.20.1 Transcom, Inc. Details
- 9.20.2 Transcom, Inc. Major Business
- 9.20.3 Transcom, Inc. GaAs MMIC Product and Services
- 9.20.4 Transcom, Inc. GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.20.5 Transcom, Inc. Recent Developments/Updates
- 9.20.6 Transcom, Inc. Competitive Strengths & Weaknesses
- 9.21 WIN Semiconductors Corp.
- 9.21.1 WIN Semiconductors Corp. Details
- 9.21.2 WIN Semiconductors Corp. Major Business
- 9.21.3 WIN Semiconductors Corp. GaAs MMIC Product and Services
- 9.21.4 WIN Semiconductors Corp. GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.21.5 WIN Semiconductors Corp. Recent Developments/Updates
- 9.21.6 WIN Semiconductors Corp. Competitive Strengths & Weaknesses

## 9.22 E-CMOS Co., Ltd.

### 9.22.1 E-CMOS Co., Ltd. Details

### 9.22.2 E-CMOS Co., Ltd. Major Business

### 9.22.3 E-CMOS Co., Ltd. GaAs MMIC Product and Services

### 9.22.4 E-CMOS Co., Ltd. GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.22.5 E-CMOS Co., Ltd. Recent Developments/Updates

### 9.22.6 E-CMOS Co., Ltd. Competitive Strengths & Weaknesses

## 9.23 Ultraband Technologies

### 9.23.1 Ultraband Technologies Details

### 9.23.2 Ultraband Technologies Major Business

### 9.23.3 Ultraband Technologies GaAs MMIC Product and Services

### 9.23.4 Ultraband Technologies GaAs MMIC Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.23.5 Ultraband Technologies Recent Developments/Updates

### 9.23.6 Ultraband Technologies Competitive Strengths & Weaknesses

## 10 INDUSTRY CHAIN ANALYSIS

### 10.1 GaAs MMIC Industry Chain

### 10.2 GaAs MMIC Upstream Analysis

#### 10.2.1 GaAs MMIC Core Raw Materials

#### 10.2.2 Main Manufacturers of GaAs MMIC Core Raw Materials

### 10.3 Midstream Analysis

### 10.4 Downstream Analysis

### 10.5 GaAs MMIC Production Mode

### 10.6 GaAs MMIC Procurement Model

### 10.7 GaAs MMIC Industry Sales Model and Sales Channels

#### 10.7.1 GaAs MMIC Sales Model

#### 10.7.2 GaAs MMIC Typical Distributors

## 11 RESEARCH FINDINGS AND CONCLUSION

## 12 APPENDIX

### 12.1 Methodology

### 12.2 Research Process and Data Source

### 12.3 Disclaimer



## List Of Tables

### LIST OF TABLES

- Table 1. World GaAs MMIC Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World GaAs MMIC Production Value by Region (2021-2026) & (USD Million)
- Table 3. World GaAs MMIC Production Value by Region (2027-2032) & (USD Million)
- Table 4. World GaAs MMIC Production Value Market Share by Region (2021-2026)
- Table 5. World GaAs MMIC Production Value Market Share by Region (2027-2032)
- Table 6. World GaAs MMIC Production by Region (2021-2026) & (K Pcs)
- Table 7. World GaAs MMIC Production by Region (2027-2032) & (K Pcs)
- Table 8. World GaAs MMIC Production Market Share by Region (2021-2026)
- Table 9. World GaAs MMIC Production Market Share by Region (2027-2032)
- Table 10. World GaAs MMIC Average Price by Region (2021-2026) & (US\$/Pcs)
- Table 11. World GaAs MMIC Average Price by Region (2027-2032) & (US\$/Pcs)
- Table 12. GaAs MMIC Major Market Trends
- Table 13. World GaAs MMIC Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Pcs)
- Table 14. World GaAs MMIC Consumption by Region (2021-2026) & (K Pcs)
- Table 15. World GaAs MMIC Consumption Forecast by Region (2027-2032) & (K Pcs)
- Table 16. World GaAs MMIC Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key GaAs MMIC Producers in 2025
- Table 18. World GaAs MMIC Production by Manufacturer (2021-2026) & (K Pcs)
- Table 19. Production Market Share of Key GaAs MMIC Producers in 2025
- Table 20. World GaAs MMIC Average Price by Manufacturer (2021-2026) & (US\$/Pcs)
- Table 21. Global GaAs MMIC Company Evaluation Quadrant
- Table 22. World GaAs MMIC Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and GaAs MMIC Production Site of Key Manufacturer
- Table 24. GaAs MMIC Market: Company Product Type Footprint
- Table 25. GaAs MMIC Market: Company Product Application Footprint
- Table 26. GaAs MMIC Competitive Factors
- Table 27. GaAs MMIC New Entrant and Capacity Expansion Plans
- Table 28. GaAs MMIC Mergers & Acquisitions Activity
- Table 29. United States VS China GaAs MMIC Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China GaAs MMIC Production Comparison, (2021 & 2025 &

2032) & (K Pcs)

Table 31. United States VS China GaAs MMIC Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based GaAs MMIC Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers GaAs MMIC Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers GaAs MMIC Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers GaAs MMIC Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers GaAs MMIC Production Market Share (2021-2026)

Table 37. China Based GaAs MMIC Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers GaAs MMIC Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers GaAs MMIC Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers GaAs MMIC Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers GaAs MMIC Production Market Share (2021-2026)

Table 42. Rest of World Based GaAs MMIC Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers GaAs MMIC Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers GaAs MMIC Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers GaAs MMIC Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers GaAs MMIC Production Market Share (2021-2026)

Table 47. World GaAs MMIC Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World GaAs MMIC Production by Type (2021-2026) & (K Pcs)

Table 49. World GaAs MMIC Production by Type (2027-2032) & (K Pcs)

Table 50. World GaAs MMIC Production Value by Type (2021-2026) & (USD Million)

Table 51. World GaAs MMIC Production Value by Type (2027-2032) & (USD Million)

Table 52. World GaAs MMIC Average Price by Type (2021-2026) & (US\$/Pcs)

- Table 53. World GaAs MMIC Average Price by Type (2027-2032) & (US\$/Pcs)
- Table 54. World GaAs MMIC Production Value by Company Role, (USD Million), 2021 & 2025 & 2032
- Table 55. World GaAs MMIC Production by Company Role (2021-2026) & (K Pcs)
- Table 56. World GaAs MMIC Production by Company Role (2027-2032) & (K Pcs)
- Table 57. World GaAs MMIC Production Value by Company Role (2021-2026) & (USD Million)
- Table 58. World GaAs MMIC Production Value by Company Role (2027-2032) & (USD Million)
- Table 59. World GaAs MMIC Average Price by Company Role (2021-2026) & (US\$/Pcs)
- Table 60. World GaAs MMIC Average Price by Company Role (2027-2032) & (US\$/Pcs)
- Table 61. World GaAs MMIC Production Value by Function Type, (USD Million), 2021 & 2025 & 2032
- Table 62. World GaAs MMIC Production by Function Type (2021-2026) & (K Pcs)
- Table 63. World GaAs MMIC Production by Function Type (2027-2032) & (K Pcs)
- Table 64. World GaAs MMIC Production Value by Function Type (2021-2026) & (USD Million)
- Table 65. World GaAs MMIC Production Value by Function Type (2027-2032) & (USD Million)
- Table 66. World GaAs MMIC Average Price by Function Type (2021-2026) & (US\$/Pcs)
- Table 67. World GaAs MMIC Average Price by Function Type (2027-2032) & (US\$/Pcs)
- Table 68. World GaAs MMIC Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World GaAs MMIC Production by Application (2021-2026) & (K Pcs)
- Table 70. World GaAs MMIC Production by Application (2027-2032) & (K Pcs)
- Table 71. World GaAs MMIC Production Value by Application (2021-2026) & (USD Million)
- Table 72. World GaAs MMIC Production Value by Application (2027-2032) & (USD Million)
- Table 73. World GaAs MMIC Average Price by Application (2021-2026) & (US\$/Pcs)
- Table 74. World GaAs MMIC Average Price by Application (2027-2032) & (US\$/Pcs)
- Table 75. Mini-Circuits Basic Information, Manufacturing Base and Competitors
- Table 76. Mini-Circuits Major Business
- Table 77. Mini-Circuits GaAs MMIC Product and Services
- Table 78. Mini-Circuits GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. Mini-Circuits Recent Developments/Updates

- Table 80. Mini-Circuits Competitive Strengths & Weaknesses
- Table 81. Qorvo Basic Information, Manufacturing Base and Competitors
- Table 82. Qorvo Major Business
- Table 83. Qorvo GaAs MMIC Product and Services
- Table 84. Qorvo GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Qorvo Recent Developments/Updates
- Table 86. Qorvo Competitive Strengths & Weaknesses
- Table 87. Analog Devices Basic Information, Manufacturing Base and Competitors
- Table 88. Analog Devices Major Business
- Table 89. Analog Devices GaAs MMIC Product and Services
- Table 90. Analog Devices GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Analog Devices Recent Developments/Updates
- Table 92. Analog Devices Competitive Strengths & Weaknesses
- Table 93. Microchip Technology Basic Information, Manufacturing Base and Competitors
- Table 94. Microchip Technology Major Business
- Table 95. Microchip Technology GaAs MMIC Product and Services
- Table 96. Microchip Technology GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Microchip Technology Recent Developments/Updates
- Table 98. Microchip Technology Competitive Strengths & Weaknesses
- Table 99. MACOM Basic Information, Manufacturing Base and Competitors
- Table 100. MACOM Major Business
- Table 101. MACOM GaAs MMIC Product and Services
- Table 102. MACOM GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. MACOM Recent Developments/Updates
- Table 104. MACOM Competitive Strengths & Weaknesses
- Table 105. California Eastern Laboratories Basic Information, Manufacturing Base and Competitors
- Table 106. California Eastern Laboratories Major Business
- Table 107. California Eastern Laboratories GaAs MMIC Product and Services
- Table 108. California Eastern Laboratories GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. California Eastern Laboratories Recent Developments/Updates
- Table 110. California Eastern Laboratories Competitive Strengths & Weaknesses

- Table 111. Skyworks Solutions, Inc. Basic Information, Manufacturing Base and Competitors
- Table 112. Skyworks Solutions, Inc. Major Business
- Table 113. Skyworks Solutions, Inc. GaAs MMIC Product and Services
- Table 114. Skyworks Solutions, Inc. GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Skyworks Solutions, Inc. Recent Developments/Updates
- Table 116. Skyworks Solutions, Inc. Competitive Strengths & Weaknesses
- Table 117. Northrop Grumman Basic Information, Manufacturing Base and Competitors
- Table 118. Northrop Grumman Major Business
- Table 119. Northrop Grumman GaAs MMIC Product and Services
- Table 120. Northrop Grumman GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Northrop Grumman Recent Developments/Updates
- Table 122. Northrop Grumman Competitive Strengths & Weaknesses
- Table 123. United Monolithic Semiconductors SAS Basic Information, Manufacturing Base and Competitors
- Table 124. United Monolithic Semiconductors SAS Major Business
- Table 125. United Monolithic Semiconductors SAS GaAs MMIC Product and Services
- Table 126. United Monolithic Semiconductors SAS GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. United Monolithic Semiconductors SAS Recent Developments/Updates
- Table 128. United Monolithic Semiconductors SAS Competitive Strengths & Weaknesses
- Table 129. Marki Microwave Basic Information, Manufacturing Base and Competitors
- Table 130. Marki Microwave Major Business
- Table 131. Marki Microwave GaAs MMIC Product and Services
- Table 132. Marki Microwave GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Marki Microwave Recent Developments/Updates
- Table 134. Marki Microwave Competitive Strengths & Weaknesses
- Table 135. VIPER RF Basic Information, Manufacturing Base and Competitors
- Table 136. VIPER RF Major Business
- Table 137. VIPER RF GaAs MMIC Product and Services
- Table 138. VIPER RF GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. VIPER RF Recent Developments/Updates
- Table 140. VIPER RF Competitive Strengths & Weaknesses

Table 141. Sumitomo Electric Device Innovations, Inc. Basic Information, Manufacturing Base and Competitors

Table 142. Sumitomo Electric Device Innovations, Inc. Major Business

Table 143. Sumitomo Electric Device Innovations, Inc. GaAs MMIC Product and Services

Table 144. Sumitomo Electric Device Innovations, Inc. GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Sumitomo Electric Device Innovations, Inc. Recent Developments/Updates

Table 146. Sumitomo Electric Device Innovations, Inc. Competitive Strengths & Weaknesses

Table 147. Nisshinbo Micro Devices Inc. Basic Information, Manufacturing Base and Competitors

Table 148. Nisshinbo Micro Devices Inc. Major Business

Table 149. Nisshinbo Micro Devices Inc. GaAs MMIC Product and Services

Table 150. Nisshinbo Micro Devices Inc. GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Nisshinbo Micro Devices Inc. Recent Developments/Updates

Table 152. Nisshinbo Micro Devices Inc. Competitive Strengths & Weaknesses

Table 153. Renesas Electronics Corporation Basic Information, Manufacturing Base and Competitors

Table 154. Renesas Electronics Corporation Major Business

Table 155. Renesas Electronics Corporation GaAs MMIC Product and Services

Table 156. Renesas Electronics Corporation GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Renesas Electronics Corporation Recent Developments/Updates

Table 158. Renesas Electronics Corporation Competitive Strengths & Weaknesses

Table 159. RFHIC Corporation Basic Information, Manufacturing Base and Competitors

Table 160. RFHIC Corporation Major Business

Table 161. RFHIC Corporation GaAs MMIC Product and Services

Table 162. RFHIC Corporation GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. RFHIC Corporation Recent Developments/Updates

Table 164. RFHIC Corporation Competitive Strengths & Weaknesses

Table 165. WAVEPIA Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 166. WAVEPIA Co., Ltd. Major Business

Table 167. WAVEPIA Co., Ltd. GaAs MMIC Product and Services

Table 168. WAVEPIA Co., Ltd. GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. WAVEPIA Co., Ltd. Recent Developments/Updates

Table 170. WAVEPIA Co., Ltd. Competitive Strengths & Weaknesses

Table 171. Hefei IC Valley Microelectronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 172. Hefei IC Valley Microelectronics Co., Ltd. Major Business

Table 173. Hefei IC Valley Microelectronics Co., Ltd. GaAs MMIC Product and Services

Table 174. Hefei IC Valley Microelectronics Co., Ltd. GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Hefei IC Valley Microelectronics Co., Ltd. Recent Developments/Updates

Table 176. Hefei IC Valley Microelectronics Co., Ltd. Competitive Strengths & Weaknesses

Table 177. Shenzhen SDSX Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 178. Shenzhen SDSX Technology Co., Ltd. Major Business

Table 179. Shenzhen SDSX Technology Co., Ltd. GaAs MMIC Product and Services

Table 180. Shenzhen SDSX Technology Co., Ltd. GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Shenzhen SDSX Technology Co., Ltd. Recent Developments/Updates

Table 182. Shenzhen SDSX Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 183. Shenzhen Sanland Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 184. Shenzhen Sanland Technology Co., Ltd. Major Business

Table 185. Shenzhen Sanland Technology Co., Ltd. GaAs MMIC Product and Services

Table 186. Shenzhen Sanland Technology Co., Ltd. GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Shenzhen Sanland Technology Co., Ltd. Recent Developments/Updates

Table 188. Shenzhen Sanland Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 189. Transcom, Inc. Basic Information, Manufacturing Base and Competitors

Table 190. Transcom, Inc. Major Business

Table 191. Transcom, Inc. GaAs MMIC Product and Services

Table 192. Transcom, Inc. GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 193. Transcom, Inc. Recent Developments/Updates
- Table 194. Transcom, Inc. Competitive Strengths & Weaknesses
- Table 195. WIN Semiconductors Corp. Basic Information, Manufacturing Base and Competitors
- Table 196. WIN Semiconductors Corp. Major Business
- Table 197. WIN Semiconductors Corp. GaAs MMIC Product and Services
- Table 198. WIN Semiconductors Corp. GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 199. WIN Semiconductors Corp. Recent Developments/Updates
- Table 200. WIN Semiconductors Corp. Competitive Strengths & Weaknesses
- Table 201. E-CMOS Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 202. E-CMOS Co., Ltd. Major Business
- Table 203. E-CMOS Co., Ltd. GaAs MMIC Product and Services
- Table 204. E-CMOS Co., Ltd. GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 205. E-CMOS Co., Ltd. Recent Developments/Updates
- Table 206. E-CMOS Co., Ltd. Competitive Strengths & Weaknesses
- Table 207. Ultraband Technologies Basic Information, Manufacturing Base and Competitors
- Table 208. Ultraband Technologies Major Business
- Table 209. Ultraband Technologies GaAs MMIC Product and Services
- Table 210. Ultraband Technologies GaAs MMIC Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 211. Ultraband Technologies Recent Developments/Updates
- Table 212. Ultraband Technologies Competitive Strengths & Weaknesses
- Table 213. Global Key Players of GaAs MMIC Upstream (Raw Materials)
- Table 214. Global GaAs MMIC Typical Customers
- Table 215. GaAs MMIC Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. GaAs MMIC Picture

Figure 2. World GaAs MMIC Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World GaAs MMIC Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World GaAs MMIC Production (2021-2032) & (K Pcs)

Figure 5. World GaAs MMIC Average Price (2021-2032) & (US\$/Pcs)

Figure 6. World GaAs MMIC Production Value Market Share by Region (2021-2032)

Figure 7. World GaAs MMIC Production Market Share by Region (2021-2032)

Figure 8. North America GaAs MMIC Production (2021-2032) & (K Pcs)

Figure 9. Europe GaAs MMIC Production (2021-2032) & (K Pcs)

Figure 10. China GaAs MMIC Production (2021-2032) & (K Pcs)

Figure 11. Japan GaAs MMIC Production (2021-2032) & (K Pcs)

Figure 12. GaAs MMIC Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World GaAs MMIC Consumption (2021-2032) & (K Pcs)

Figure 15. World GaAs MMIC Consumption Market Share by Region (2021-2032)

Figure 16. United States GaAs MMIC Consumption (2021-2032) & (K Pcs)

Figure 17. China GaAs MMIC Consumption (2021-2032) & (K Pcs)

Figure 18. Europe GaAs MMIC Consumption (2021-2032) & (K Pcs)

Figure 19. Japan GaAs MMIC Consumption (2021-2032) & (K Pcs)

Figure 20. South Korea GaAs MMIC Consumption (2021-2032) & (K Pcs)

Figure 21. ASEAN GaAs MMIC Consumption (2021-2032) & (K Pcs)

Figure 22. India GaAs MMIC Consumption (2021-2032) & (K Pcs)

Figure 23. Producer Shipments of GaAs MMIC by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for GaAs MMIC Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for GaAs MMIC Markets in 2025

Figure 26. United States VS China: GaAs MMIC Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: GaAs MMIC Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: GaAs MMIC Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers GaAs MMIC Production Market Share 2025

Figure 30. China Based Manufacturers GaAs MMIC Production Market Share 2025

Figure 31. Rest of World Based Manufacturers GaAs MMIC Production Market Share 2025

Figure 32. World GaAs MMIC Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World GaAs MMIC Production Value Market Share by Type in 2025

Figure 34. HEMTs Type

Figure 35. HBT Type

Figure 36. MESFETs Type

Figure 37. World GaAs MMIC Production Market Share by Type (2021-2032)

Figure 38. World GaAs MMIC Production Value Market Share by Type (2021-2032)

Figure 39. World GaAs MMIC Average Price by Type (2021-2032) & (US\$/Pcs)

Figure 40. World GaAs MMIC Production Value by Company Role, (USD Million), 2021 & 2025 & 2032

Figure 41. World GaAs MMIC Production Value Market Share by Company Role in 2025

Figure 42. Integrated Design And Manufacturing

Figure 43. Wafer Foundry

Figure 44. Other

Figure 45. World GaAs MMIC Production Market Share by Company Role (2021-2032)

Figure 46. World GaAs MMIC Production Value Market Share by Company Role (2021-2032)

Figure 47. World GaAs MMIC Average Price by Company Role (2021-2032) & (US\$/Pcs)

Figure 48. World GaAs MMIC Production Value by Function Type, (USD Million), 2021 & 2025 & 2032

Figure 49. World GaAs MMIC Production Value Market Share by Function Type in 2025

Figure 50. Amplifier

Figure 51. Switch

Figure 52. Other Functions

Figure 53. World GaAs MMIC Production Market Share by Function Type (2021-2032)

Figure 54. World GaAs MMIC Production Value Market Share by Function Type (2021-2032)

Figure 55. World GaAs MMIC Average Price by Function Type (2021-2032) & (US\$/Pcs)

Figure 56. World GaAs MMIC Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World GaAs MMIC Production Value Market Share by Application in 2025

Figure 58. Consumer Electronics

Figure 59. Military

Figure 60. Communication

Figure 61. Radar

Figure 62. Others

Figure 63. World GaAs MMIC Production Market Share by Application (2021-2032)

Figure 64. World GaAs MMIC Production Value Market Share by Application  
(2021-2032)

Figure 65. World GaAs MMIC Average Price by Application (2021-2032) & (US\$/Pcs)

Figure 66. GaAs MMIC Industry Chain

Figure 67. GaAs MMIC Procurement Model

Figure 68. GaAs MMIC Sales Model

Figure 69. GaAs MMIC Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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