

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

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## Abstracts

The global GaAs pHEMT market size is expected to reach \$ 30.70 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

In 2025, global GaAs pHEMT wafer production capacity is approximately 9,500,000 units (6-inch wafer equivalents), with actual production reaching around 7,600,000 wafers. The blended average selling price of RF discrete dies is about US\$ 2.5 per unit, and gross margins typically range between 30% and 45%, depending on product specification and application segment. GaAs pHEMT (Gallium Arsenide pseudomorphic High Electron Mobility Transistor) is a high-frequency, high-electron-mobility field-effect transistor fabricated on a gallium arsenide substrate using heterojunction epitaxy. By introducing a pseudomorphic InGaAs channel layer between GaAs and AlGaAs layers, the device forms a two-dimensional electron gas (2DEG) with extremely high carrier mobility and low noise characteristics. Compared with silicon LDMOS and CMOS RF technologies, GaAs pHEMT offers superior performance in high-frequency gain, low noise figure, and linearity, making it widely used in RF front-end modules, low-noise amplifiers (LNAs), power amplifiers (PAs), microwave communication systems, satellite communication, radar, and optical communication drivers.

The upstream of the GaAs pHEMT industry includes high-purity gallium and arsenic raw materials, semi-insulating GaAs substrates, MOCVD/MBE epitaxial growth equipment, specialty gases, and photolithography materials. Epitaxial wafer growth is the most critical technical barrier, directly affecting electron mobility and device yield. The midstream consists of wafer fabrication, device processing, passivation, metallization, testing, and packaging. Advanced processes often adopt 0.15  $\mu$ m or below gate length technologies for enhanced RF performance. The downstream primarily serves 5G infrastructure, smartphones, Wi-Fi 6/7 modules, satellite communications, defense

electronics, and automotive radar systems. Industry characteristics include high technical entry barriers, moderate production scale, and relatively stable profitability compared with silicon-based RF alternatives.

The GaAs pHEMT market benefits from continuous expansion in wireless communication standards and increasing RF complexity in mobile devices. The deployment of 5G and Wi-Fi 7 increases the number of frequency bands and antenna configurations, driving demand for high-linearity LNAs and switch-LNA integrated solutions. In parallel, satellite communication, aerospace, and defense radar systems sustain high-end demand for low-noise, high-frequency devices. However, competitive pressure from RF CMOS and GaN technologies is intensifying. RF CMOS offers cost advantages in highly integrated front-end modules, while GaN provides superior power density for high-power base station applications. Consequently, GaAs pHEMT is gradually positioning itself in medium-power, low-noise, and high-frequency niche segments where performance-to-cost balance remains optimal. Future growth will depend on advanced node scaling, integration capability, and expansion into emerging applications such as LEO satellite communication and automotive advanced driver-assistance radar systems.

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

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

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

Global GaAs pHEMT total production and demand, 2021-2032, (K Units)

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

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

Global GaAs pHEMT consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

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

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

This report profiles key players in the global GaAs pHEMT 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 Broadcom, Qorvo, Skyworks Solutions, WIN Semiconductors, Advanced Wireless Semiconductor Company, San'an Semiconductor, NXP, Microwave Technology (MwT), 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 pHEMT 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 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 pHEMT Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global GaAs pHEMT Market, Segmentation by Type:

0.15  $\mu\text{m}$

0.25  $\mu\text{m}$

#### Global GaAs pHEMT Market, Segmentation by Structure Type:

Enhancement-mode

Depletion-mode

#### Global GaAs pHEMT Market, Segmentation by Frequency Range:

Sub-6 GHz

Microwave (6–30 GHz)

Millimeter Wave (>30 GHz)

#### Global GaAs pHEMT Market, Segmentation by Application:

Amplifier

Oscillator

Chip

Others

#### Companies Profiled:

Broadcom

Qorvo

Skyworks Solutions

WIN Semiconductors

Advanced Wireless Semiconductor Company

San'an Semiconductor

NXP

Microwave Technology (MwT)

#### **Key Questions Answered:**

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

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