

# Global GaN RF Device Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global GaN RF Device market size is expected to reach \$ 2302 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

The global GaN RF device industry generally covers GaN-based high-power / high-frequency semiconductor devices used in RF and microwave signal chains. Commercial product forms typically include RF GaN power transistors (die or packaged), GaN MMICs (monolithic microwave integrated circuits integrating PA/LNA/switch/driver functions), and infrastructure-oriented PA/driver devices and integrated PA modules. The dominant device technology is GaN HEMT, implemented primarily on two epi/substrate platforms: GaN-on-SiC (preferred for high-performance microwave, benefiting from superior thermal handling and power density) and GaN-on-Si (pursuing lower cost and silicon-fab compatibility to scale in telecom infrastructure). Key technical differentiators center on aggressive scaling for higher frequency, high efficiency and power density (including Doherty-friendly behavior for base-station PAs), linearity and wide instantaneous bandwidth, and thermal/reliability engineering at MMIC hotspots and package parasitics/thermal paths.

On applications and market dynamics, demand is driven mainly by (1) wireless infrastructure (5G/5G-Advanced macro and massive-MIMO PA chains with higher frequency and wider bandwidth), (2) aerospace & defense (radar, EW, and satcom requiring broadband high-power RF devices), and (3) selected industrial/specialty microwave systems. Public Yole commentary indicates weak telecom-infrastructure demand in 2024–2025, while defense-related growth supports a constructive multi-year outlook for RF GaN. The supply side is also reshaping through portfolio focus and consolidation—e.g., Wolfspeed's sale of its RF business to MACOM to concentrate resources on SiC materials and power expansion. Longer-term trends include cost-

down and platform scaling (GaN-on-Si leveraging 8-inch silicon manufacturing and advanced packaging to reduce footprint and parasitics in massive-MIMO arrays) alongside SiC substrate scaling that underpins the GaN-on-SiC ecosystem's manufacturability.

This report studies the global GaN RF Device production, demand, key manufacturers, and key regions.

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

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

Global GaN RF Device total production and demand, 2021-2032, (K Units)

Global GaN RF Device total production value, 2021-2032, (USD Million)

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

Global GaN RF Device consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: GaN RF Device domestic production, consumption, key domestic manufacturers and share

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

Global GaN RF Device production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global GaN RF Device production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global GaN RF Device 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 Sumitomo Electric Device Innovations (SEDI), MACOM, Qorvo, NXP, RFHIC Corporation, Raytheon, Dynax Semiconductor, Mitsubishi Electric, CETC 55, Northrop Grumman, 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 GaN RF Device 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 GaN RF Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global GaN RF Device Market, Segmentation by Type:

GaN RF Discrete

GaN MMICs

### Global GaN RF Device Market, Segmentation by Technology:

GaN-on-SiC RF Devices

GaN-on-Si RF Devices

Global GaN RF Device Market, Segmentation by Application:

Telecom Infrastructure

Military & Defense

Satcom

Others

Companies Profiled:

Sumitomo Electric Device Innovations (SEDI)

MACOM

Qorvo

NXP

RFHIC Corporation

Raytheon

Dynax Semiconductor

Mitsubishi Electric

CETC 55

Northrop Grumman

Ampleon

UMS RF

CETC 13

ReliaSat (Arralis)

WAVICE Inc

Microchip Technology

Youjia Technology (Suzhou) Co., Ltd

Shenzhen Taigao Technology

Hebei Sinopack Electronic Technology

**Key Questions Answered:**

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

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