

# Global GaN RF Device Market Growth 2026-2032

<https://marketpublishers.com/r/GDA5B2EBFE0EEN.html>

Date: May 2026

Pages: 134

Price: US\$ 3,660.00 (Single User License)

ID: GDA5B2EBFE0EEN

## Abstracts

The global GaN RF Device market size is predicted to grow from US\$ 1385 million in 2025 to US\$ 2240 million in 2032; it is expected to grow at a CAGR of 7.0% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "GaN RF Device Industry Forecast" looks at past sales and reviews total world GaN RF Device sales in 2025, providing a comprehensive analysis by region and market sector of projected GaN RF Device sales for 2026 through 2032. With GaN RF Device sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GaN RF Device industry.

This Insight Report provides a comprehensive analysis of the global GaN RF Device landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on GaN RF Device portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global GaN RF Device market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaN RF Device and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global GaN RF Device.

This report presents a comprehensive overview, market shares, and growth opportunities of GaN RF Device market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

GaN RF Discrete

GaN MMICs

Segmentation by Technology:

GaN-on-SiC RF Devices

GaN-on-Si RF Devices

Segmentation by Application:

Telecom Infrastructure

Military & Defense

Satcom

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global GaN RF Device market?

What factors are driving GaN RF Device market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do GaN RF Device market opportunities vary by end market size?

How does GaN RF Device break out by Type, by Application?

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