

# Global GaN RF Device Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G40D3E15766CEN.html>

Date: February 2026

Pages: 126

Price: US\$ 3,480.00 (Single User License)

ID: G40D3E15766CEN

## Abstracts

According to our (Global Info Research) latest study, the global GaN RF Device market size was valued at US\$ 1457 million in 2025 and is forecast to a readjusted size of US\$ 2302 million by 2032 with a CAGR of 6.6% during review period.

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 is a detailed and comprehensive analysis for global GaN RF Device market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global GaN RF Device market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global GaN RF Device market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global GaN RF Device market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global GaN RF Device market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for GaN RF Device
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global GaN RF Device market based on the following parameters - company overview, sales quantity, revenue, 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.

## **Market Segmentation**

GaN RF Device market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

GaN RF Discrete

GaN MMICs

### Market segment by Technology

GaN-on-SiC RF Devices

GaN-on-Si RF Devices

### Market segment by Application

Telecom Infrastructure

Military & Defense

Satcom

Others

## Major players covered

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

Market segment by region, regional analysis covers  
North America (United States, Canada, and Mexico)  
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)  
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)  
South America (Brazil, Argentina, Colombia, and Rest of South America)  
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe GaN RF Device product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaN RF Device, with price, sales quantity, revenue, and global market share of GaN RF Device from 2021 to 2026.

Chapter 3, the GaN RF Device competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GaN RF Device breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and GaN RF Device market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of GaN RF Device.

Chapter 14 and 15, to describe GaN RF Device sales channel, distributors, customers,

research findings and conclusion.

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