

Global GaN Radio Frequency Devices Market Growth 2025-2031

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Abstracts

The global GaN Radio Frequency Devices market size is predicted to grow from US\$ million in 2025 to US\$ million in 2031; it is expected to grow at a CAGR of % from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

GaN HEMTs have been offered commercially since 2006, and have found immediate use in various wireless infrastructure applications due to their high efficiency and high voltage operation. Second generation technology with shorter gate lengths will be addressing higher frequency telecom and aerospace applications

United States market for GaN Radio Frequency Devices is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for GaN Radio Frequency Devices is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for GaN Radio Frequency Devices is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key GaN Radio Frequency Devices players cover NXP Semiconductor, Infineon Technologies, Texas Instruments, United Monolithic Semiconductors (UMS), Qorvo, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “GaN Radio Frequency Devices Industry Forecast” looks at past sales and reviews total world GaN Radio Frequency Devices sales in 2024, providing a comprehensive analysis by region and market sector of projected GaN Radio Frequency Devices sales for 2025 through 2031. With GaN Radio Frequency Devices sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GaN Radio Frequency Devices industry.

This Insight Report provides a comprehensive analysis of the global GaN Radio Frequency Devices 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 Radio Frequency Devices portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global GaN Radio Frequency Devices market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaN Radio Frequency Devices 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 Radio Frequency Devices.

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

Segmentation by Type:

RF Front-End Equipment

RF Terminal Equipment

Other

Segmentation by Application:

CATV

Cellular Infrastructure

Defense

Other

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.

NXP Semiconductor

Infineon Technologies

Texas Instruments

United Monolithic Semiconductors (UMS)

Qorvo

Wolfspeed (Cree)

ST-Ericsson

GAN Systems

Fujitsu Semiconductor

Microchip Technology

Toshiba

Sumitomo Electric Device

WIN Semiconductors

RFHIC

NTT Advanced Technology Corporation

Northrop Grumman

Avago Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global GaN Radio Frequency Devices market?

What factors are driving GaN Radio Frequency Devices market growth, globally and by region?

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

How do GaN Radio Frequency Devices market opportunities vary by end market size?

How does GaN Radio Frequency Devices break out by Type, by Application?

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