

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

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Abstracts

The global RF GaN Devices 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 GaN RF device industry generally refers to GaN-based high-power / high-efficiency semiconductor devices used in RF, microwave, and mmWave signal chains, with power amplification (PA) as the primary value driver. The product/device scope typically includes discrete RF GaN power transistors (die or packaged), GaN MMICs (monolithic microwave ICs integrating PA/driver/LNA/switch functions), and system-facing PA/driver devices and selected integrated modules. The dominant process form is GaN HEMT, implemented mainly on two epi/substrate platforms: GaN-on-SiC (favored for high power density and thermal handling, widely used in radar, EW, satcom, and high-performance wireless infrastructure) and GaN-on-Si (pursuing cost and manufacturability scalability on large silicon wafers for infrastructure deployments). The industry structure spans IDMs and specialty RF foundries offering GaN HEMT/MMIC process platforms.

Technically, GaN RF devices leverage wide-bandgap material advantages—high breakdown capability, high charge density/mobility, and temperature robustness—enabling higher operating voltage, higher power density, and superior efficiency for long-range and high-power RF systems. Key R&D and engineering themes include device scaling for higher frequency, linearity and wide instantaneous bandwidth for modern base-station PA architectures (including Doherty-friendly behavior under high PAPR), and thermal/reliability engineering (trap effects, buffer/gate stack design, lifetime under high power density, and package parasitics plus thermal paths). Public technical reviews note that GaN devices are becoming a mainstream technology for sub-6 GHz base-station PAs, with continued progress toward higher-

frequency operation and tighter circuit/modeling/packaging co-optimization.

On applications and value chain, demand is driven by (1) wireless infrastructure (5G/5G-Advanced macro and massive-MIMO PA chains, backhaul, and selected mmWave links), (2) aerospace & defense (AESA radar, EW, satcom), and (3) industrial/specialty microwave systems. The upstream chain typically runs: SiC or Si substrates > epitaxy (e.g., MOCVD) > device fabrication (HEMT/MMIC processes) > packaging & test (high-power RF packaging, module/array integration) > system OEM adoption.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global RF GaN Devices 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 RF GaN Devices 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 Device 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 RF GaN Devices Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global RF GaN Devices Market, Segmentation by Device Type:

GaN RF Discrete/Transistors

GaN MMICs

Global RF GaN Devices Market, Segmentation by Technology:

GaN-on-SiC RF Devices

GaN-on-Si RF Devices

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

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