

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

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Abstracts

The global GaN Semiconductor Device market size is expected to reach \$ 8298 million by 2032, rising at a market growth of 17.0% CAGR during the forecast period (2026-2032).

This report studies the GaN Semiconductor Devices, include GaN RF devices and GaN power devices.

Currently GaN RF devices are currently in a dominant position, accounting for about 85% of the market share, while GaN power devices currently account for the remaining 15%. GaN power devices have grown rapidly in recent years, and a large number of companies have gradually entered the industry. It is expected that GaN power devices market share will further increase in the next few years.

At present, GaN RF devices are mainly dominated by several companies such as Sumitomo Electric Device Innovations (SEDI), Wolfspeed, Qorvo and NXP; while GaN power devices are dominated by Power Integrations, Inc., Navitas Semiconductor, GaN Systems, Efficient Power Conversion Corporation (EPC), Innoscience, Transphorm Inc. and Infineon, among which Innoscience is the world's largest GaN power device manufacturer.

GaN power devices have grown rapidly in recent years, and a large number of companies have gradually entered the industry. In the next few years, the main market demand for gallium nitride will come from the automotive. In the automotive, the entry point of GaN power devices is the on-board charger (OBC).

This report studies the global GaN Semiconductor Device production, demand, key

manufacturers, and key regions.

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

Highlights and key features of the study

Global GaN Semiconductor Device total production and demand, 2021-2032, (Million Units)

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

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

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

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

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

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

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

This report profiles key players in the global GaN Semiconductor 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 Infineon (GaN Systems), STMicroelectronics, Texas Instruments, onsemi, Microchip Technology, Rohm, NXP Semiconductors, Toshiba, Innoscience, Wolfspeed, Inc, 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 Semiconductor Device market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 Semiconductor Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GaN Semiconductor Device Market, Segmentation by Type:

GaN RF Devices

GaN Power Devices

Global GaN Semiconductor Device Market, Segmentation by Application:

Telecom & Datacom

Consumer Electronics

Industrial

Automotive & Mobility

Military, Defense & Aerospace

Energy

Others

Companies Profiled:

Infineon (GaN Systems)

STMicroelectronics

Texas Instruments

onsemi

Microchip Technology

Rohm

NXP Semiconductors

Toshiba

Innoscence

Wolfspeed, Inc

Renesas Electronics (Transphorm)

Sumitomo Electric Device Innovations (SEDI) (SCIOCS)

Alpha and Omega Semiconductor Limited (AOS)

Nexperia

Epistar Corp.

Qorvo

Navitas Semiconductor

Power Integrations, Inc.

Efficient Power Conversion Corporation (EPC)

MACOM

VisIC Technologies

Cambridge GaN Devices (CGD)

Wise Integration

RFHIC Corporation

Ampleon

GaNext

Chengdu DanXi Technology

Southchip Semiconductor Technology

Panasonic

Toyoda Gosei

China Resources Microelectronics Limited

CorEnergy

Dynax Semiconductor

Sanan Optoelectronics

Hangzhou Silan Microelectronics

Guangdong ZIENER Technology

CETC 13

CETC 55

Qingdao Cohenius Microelectronics

Youjia Technology (Suzhou) Co., Ltd

Nanjing Xinkansen Technology

GaNPower

CloudSemi

Shenzhen Taigao Technology

Key Questions Answered:

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

6. What are the growth factors driving the market demand?

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