

Global GaN (Gallium Nitride) Semiconductors Market Growth (Status and Outlook) 2025-2031

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Abstracts

According to this study, the global GaN (Gallium Nitride) Semiconductors market size will reach US\$ 7747 million by 2031.

Gallium nitride (GaN) is used as the wide band gap material for next generation power semiconductors and high frequency devices.

GaN has emerged as a revolutionary semiconductor material with several distinct advantages over incumbent technologies in both power electronics and radio frequency (RF) applications. GaN's versatility, combined with its ability to operate at high frequencies and handle high power densities, positions it as a pivotal technology driving innovation in power electronics, telecommunications, aerospace and defense, and beyond.

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.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaN (Gallium Nitride) Semiconductors 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 (Gallium Nitride) Semiconductors.

This report presents a comprehensive overview, market shares, and growth opportunities of GaN (Gallium Nitride) Semiconductors market by product type, application, key players and key regions and countries.

Segmentation by Type:

Power GaN Devices

RF GaN Devices

Segmentation by Application:

Telecom & Datacom

Consumer Electronics

Industrial

Automotive & Mobility

Military, Defense & Aerospace

Energy

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 analyzing the company's coverage, product portfolio, its market penetration.

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

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