

# Global GaN Power IC Design Market Growth (Status and Outlook) 2024-2030

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## Abstracts

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GaN, a wide bandgap semiconductor material featuring high-frequency and low on-resistance, has become the centerpiece in the ongoing revolution of the power semiconductor industry.

In semiconductor industry, there are two models: IDM model and Fabless model.

IDM model enables in-house control of the entire process from design, manufacturing to testing. With an integrated operational framework, the IDM model offers unmatched coordination and synergy while ensuring the quality of power semiconductor products. It provides stable production capacities, enables swift innovation through synergistic design and process iterations and supports cost-effective scaling.

While advanced process technologies significantly enhance digital chip performance, the functionality of analog chips — especially power semiconductor chips — largely hinges on the intrinsic properties of the semiconductor materials employed. Different materials have distinct bandgap, carrier mobility, electrical and thermal conductivity and other properties, resulting in varied performance and applications. As a result, the IDM model, which enables in-house control of the entire process from design, manufacturing to testing, has been the mainstream operational framework in the broader power semiconductor industry. The global top five power semiconductor companies all adopted the IDM model. In the rapidly evolving GaN power semiconductor industry, this model continues to prove to be the most effective.

This report studies the GaN power IC design, including the including IDM and fabless.

The fabless business model still dominates the power GaN ecosystem in 2023, but some fabless companies are expected to be acquired by IDMs. The typical IDMs include Innoscience, Infineon (GaN Systems), Wolfspeed, STMicroelectronics, Renesas Electronics (Transphorm), Texas Instruments, Epistar Corp., China Resources Microelectronics Limited, CorEnergy, Dynax Semiconductor, Sanan Optoelectronics, Rohm, etc.

The global GaN Power IC Design market size is projected to grow from US\$ 2196 million in 2024 to US\$ 5318 million in 2030; it is expected to grow at a CAGR of 15.9% from 2024 to 2030.

LPI (LP Information)' newest research report, the "GaN Power IC Design Industry Forecast" looks at past sales and reviews total world GaN Power IC Design sales in 2022, providing a comprehensive analysis by region and market sector of projected GaN Power IC Design sales for 2023 through 2029. With GaN Power IC Design sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GaN Power IC Design industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaN Power IC Design and breaks down the forecast by Model, 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 Power IC Design.

United States market for GaN Power IC Design is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for GaN Power IC Design is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for GaN Power IC Design is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key GaN Power IC Design players cover Infineon (GaN Systems), STMicroelectronics, Texas Instruments, onsemi, Microchip Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of GaN Power IC Design market by product type, application, key players and key regions and countries.

Segmentation by Model:

Power GaN IDM

Power GaN Fabless

Segmentation by Application:

GaN Power Devices

GaN RF Devices

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

Segmentation by Model:

Power GaN IDM

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Segmentation by Application:

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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

Nuvoton Technology Corporation

CETC 13

CETC 55

Qingdao Cohenius Microelectronics

Youjia Technology (Suzhou) Co., Ltd

Nanjing Xinkansen Technology

GaNPower

CloudSemi

Shenzhen Taigao Technology





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