

# Global GaN Chips IDM Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/G0029557D8E8EN.html>

Date: February 2026

Pages: 176

Price: US\$ 3,660.00 (Single User License)

ID: G0029557D8E8EN

## Abstracts

The global GaN Chips IDM market size is predicted to grow from US\$ 2093 million in 2025 to US\$ 8943 million in 2032; it is expected to grow at a CAGR of 23.5% from 2026 to 2032.

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 chips design (IDM model), including the GaN discrete chips and GaN ICs design. 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.

United States market for GaN Chips IDM is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for GaN Chips IDM is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for GaN Chips IDM is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key GaN Chips IDM players cover Infineon (GaN Systems), Renesas Electronics (Transphorm), Wolfspeed, Inc, Innoscience, STMicroelectronics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the “GaN Chips IDM Industry Forecast” looks at past sales and reviews total world GaN Chips IDM sales in 2025, providing a comprehensive analysis by region and market sector of projected GaN Chips IDM sales for 2026 through 2032. With GaN Chips IDM sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GaN Chips IDM industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaN Chips IDM and breaks down the forecast by Technology, 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 Chips IDM.

This report presents a comprehensive overview, market shares, and growth

opportunities of GaN Chips IDM market by product type, application, key players and key regions and countries.

Segmentation by Technology:

GaN-on-Si

GaN-on-SiC

**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

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)

Renesas Electronics (Transphorm)

Wolfspeed, Inc

Innoscence

STMicroelectronics

Texas Instruments

onsemi

Microchip Technology

Rohm

NXP Semiconductors

Sumitomo Electric Device Innovations (SEDI) (SCIOCS)

Qorvo

Toshiba

Alpha and Omega Semiconductor Limited (AOS)

Nexperia

Epistar Corp.

CETC 13

CETC 55

China Resources Microelectronics Limited

CorEnergy

Sanan Optoelectronics

Hangzhou Silan Microelectronics

Qingdao Cohenius Microelectronics

Dynax Semiconductor

Guangdong ZIENER Technology

Nuvoton Technology Corporation

Toyoda Gosei

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