

Global GaN-on-Si LED Chips Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global GaN-on-Si LED Chips market size was valued at US\$ 3.1 million in 2024 and is forecast to a readjusted size of USD 5.1 million by 2031 with a CAGR of 6.5% during review period.

GaN-on-Si LED chips are Light Emitting Diodes (LEDs) where the light-emitting layer, Gallium Nitride (GaN), is grown on a silicon (Si) substrate. This contrasts with traditional LEDs grown on sapphire or silicon carbide (SiC) substrates. Using silicon offers advantages like lower cost, larger wafer sizes (leading to higher production yields and lower cost per chip), and compatibility with existing silicon semiconductor manufacturing infrastructure. However, the lattice mismatch and thermal expansion differences between GaN and Si present significant technical challenges.

The industry trend for GaN-on-Si LED chips is one of increasing research, development, and adoption, driven by the potential for significant cost reductions in LED manufacturing. While sapphire-based LEDs remain dominant, GaN-on-Si is gaining momentum, particularly in price-sensitive applications like general lighting. Key trends include:

Cost Reduction Focus: The primary driver for GaN-on-Si is its potential for lower manufacturing costs compared to sapphire and SiC. This is due to the lower cost of silicon substrates, larger wafer sizes (8-inch and even 12-inch are being explored), and the ability to leverage existing silicon fabrication facilities.

Performance Improvement: Ongoing research focuses on mitigating the challenges related to lattice mismatch and thermal expansion differences between GaN and Si.

This includes developing buffer layers and strain management techniques to improve light output, efficiency, and reliability. Micro-LED technology also benefits from GaN-on-Si due to the ease of manufacturing on large wafers.

Targeting General Lighting and Backlighting: GaN-on-Si is primarily targeting general lighting applications, such as bulbs, tubes, and streetlights, where cost is a major consideration. It is also gaining traction in LCD backlighting, especially for larger displays.

Competition and Collaboration: The GaN-on-Si LED market is characterized by competition among LED manufacturers, material suppliers, and research institutions, as well as collaborations to overcome technical challenges and accelerate commercialization.

This report is a detailed and comprehensive analysis for global GaN-on-Si LED Chips market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global GaN-on-Si LED Chips market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global GaN-on-Si LED Chips market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global GaN-on-Si LED Chips market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global GaN-on-Si LED Chips market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2020-2025

The Primary Objectives in This Report Are:

Global GaN-on-Si LED Chips Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for GaN-on-Si LED Chips
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global GaN-on-Si LED Chips market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Samsung, Osram, LatticePower, Bridgelux, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

GaN-on-Si LED Chips market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Size (mil) 32x32

Size (mil) 36x36

Size (mil) 45x45

Others

Market segment by Application

Automotive

Consumer Goods

Consumer Electronics

Others

Major players covered

Samsung

Osram

LatticePower

Bridgelux

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe GaN-on-Si LED Chips product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaN-on-Si LED Chips, with price, sales quantity, revenue, and global market share of GaN-on-Si LED Chips from 2020 to 2025.

Chapter 3, the GaN-on-Si LED Chips competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GaN-on-Si LED Chips breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and GaN-on-Si LED Chips market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of GaN-on-Si LED Chips.

Chapter 14 and 15, to describe GaN-on-Si LED Chips sales channel, distributors, customers, research findings and conclusion.

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