

Global GaN on Si HEMT Epitaxial Wafer Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/G567030B6098EN.html>

Date: July 2023

Pages: 118

Price: US\$ 4,480.00 (Single User License)

ID: G567030B6098EN

Abstracts

The global GaN on Si HEMT Epitaxial Wafer market size is expected to reach \$ 205 million by 2029, rising at a market growth of 21.1% CAGR during the forecast period (2023-2029).

The main feature of GaN on Si is that Si is the substrate and GaN is the epitaxy. Silicon substrates are cheap, low in cost, can be produced on a large scale, have high energy density, and the size of the wafer can be made very large. Currently, the size of the wafer is 8 inches, but it is mainly 6 inches.

Due to the use of Si substrate materials, GaN can be epitaxially grown on large-diameter silicon wafers and has the advantages of being compatible with traditional Si processes, making it an ideal choice for the development of power semiconductor technology. There are two types of GaN on Si HEMT epitaxy: normally-on, depletion-type (D-type) and normally-off, enhancement-type (E-type).

This report studies the global GaN on Si HEMT Epitaxial Wafer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GaN on Si HEMT Epitaxial Wafer, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of GaN on Si HEMT Epitaxial Wafer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global GaN on Si HEMT Epitaxial Wafer total production and demand, 2018-2029, (Pcs)

Global GaN on Si HEMT Epitaxial Wafer total production value, 2018-2029, (USD Million)

Global GaN on Si HEMT Epitaxial Wafer production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Pcs)

Global GaN on Si HEMT Epitaxial Wafer consumption by region & country, CAGR, 2018-2029 & (Pcs)

U.S. VS China: GaN on Si HEMT Epitaxial Wafer domestic production, consumption, key domestic manufacturers and share

Global GaN on Si HEMT Epitaxial Wafer production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Pcs)

Global GaN on Si HEMT Epitaxial Wafer production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Pcs)

Global GaN on Si HEMT Epitaxial Wafer production by Application production, value, CAGR, 2018-2029, (USD Million) & (Pcs).

This reports profiles key players in the global GaN on Si HEMT Epitaxial Wafer 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 IQE, DOWA Electronics, CETC13, CETC55, Soitec (EpiGaN), NTT-AT, BTOZ, Episil-Precision Inc and Epistar Corp, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World GaN on Si HEMT Epitaxial Wafer market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Pcs) and average price (USD/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global GaN on Si HEMT Epitaxial Wafer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GaN on Si HEMT Epitaxial Wafer Market, Segmentation by Type

4 Inch

6 Inch

Others

Global GaN on Si HEMT Epitaxial Wafer Market, Segmentation by Application

GaN RF Devices

GaN Power Devices

Companies Profiled:

IQE

DOWA Electronics

CETC13

CETC55

Soitec (EpiGaN)

NTT-AT

BTOZ

Episil-Precision Inc

Epistar Corp

Enkris Semiconductor Inc

Innoscence

Runxin Microelectronics

CorEnergy

Qingdao Cohenius Microelectronics

Shaanxi Yuteng Electronic Technology

Key Questions Answered

1. How big is the global GaN on Si HEMT Epitaxial Wafer market?
2. What is the demand of the global GaN on Si HEMT Epitaxial Wafer market?

3. What is the year over year growth of the global GaN on Si HEMT Epitaxial Wafer market?
4. What is the production and production value of the global GaN on Si HEMT Epitaxial Wafer market?
5. Who are the key producers in the global GaN on Si HEMT Epitaxial Wafer market?
6. What are the growth factors driving the market demand?

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