

Global WBG Power Devices Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global WBG Power Devices market size will reach 2,640.78 Million USD in 2025 and is projected to reach 17,718.52 Million USD by 2032, with a CAGR of 31.25% (2025-2032). Notably, the China WBG Power Devices market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

WBG power devices refer to Wide Bandgap semiconductor devices used in power electronics applications. Wide Bandgap materials such as silicon carbide (SiC) and gallium nitride (GaN) offer superior electrical properties compared to traditional silicon-based semiconductors, including higher breakdown voltage, faster switching speeds, and lower on-state resistance. WBG power devices leverage these advantages to enable more efficient and compact power conversion systems in various applications such as renewable energy, electric vehicles, industrial motor drives, and grid infrastructure. By utilizing WBG materials, power electronics designers can achieve higher power densities, increased efficiency, reduced losses, and improved performance compared to conventional silicon-based devices, leading to enhanced energy efficiency and reliability in power systems. As a result, WBG power devices are playing an increasingly important role in advancing the transition towards more sustainable and electrified energy systems.

The major global manufacturers of WBG Power Devices include Infineon, Rohm,

Mitsubishi, STMicro, Fuji, Toshiba, Microsemi, United Silicon Carbide Inc., GeneSic, Efficient Power Conversion (EPC), GaN Systems, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of WBG Power Devices. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global WBG Power Devices market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the WBG Power Devices market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of WBG Power Devices industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of WBG Power Devices Include:

Infineon

Rohm

Mitsubishi

STMicro

Fuji

Toshiba

Microsemi

United Silicon Carbide Inc.

GeneSic

Efficient Power Conversion (EPC)

GaN Systems

WBG Power Devices Product Segment Include:

GaN WBG Power Devices

SiC WBG Power Devices

WBG Power Devices Product Application Include:

Consumer Electronics

Automotive & Transportation

Industrial Use

Others

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