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Global Wide Band Gap Devices in 5G & Telecommunications Market Growth 2025-2031

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Abstracts

The global Wide Band Gap Devices in 5G & Telecommunications market size is predicted to grow from US$ 893 million in 2025 to US$ 1564 million in 2031; it is expected to grow at a CAGR of 9.8% from 2025 to 2031.

Wide bandgap (WBG) semiconductors like gallium nitride (GaN) and silicon carbide (SiC) are revolutionizing 5G and telecommunications infrastructure by enabling higher efficiency, power density, and performance in critical applications.

GaN in RF Power Amplifiers for 5G mmWave Application:

mmWave Base Stations: GaN-on-SiC devices are pivotal for 5G mmWave (24–100 GHz) networks, where high-frequency operation and compact designs are essential. These devices support high power density (e.g., 100W output with 50–60% efficiency) and reduce thermal challenges in densely deployed small-cell base stations.

Macro and Small Cells: GaN's superior electron mobility (2,000 cm?/V-sec) and high saturation velocity (25?10? cm/s) make it ideal for high-frequency signal amplification, outperforming traditional silicon-based LDMOS.

SiC in Thermal Management and Power Systems: SiC MOSFETs enhance efficiency in 5G base station power supplies, reducing energy loss by up to 50% compared to silicon-based systems.

United States market for Wide Band Gap Devices in 5G & Telecommunications is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

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China market for Wide Band Gap Devices in 5G & Telecommunications is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Wide Band Gap Devices in 5G & Telecommunications is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Wide Band Gap Devices in 5G & Telecommunications players cover Qorvo, Wolfspeed, Inc, Sumitomo Electric Device Innovations (SEDI) (SCIOCS), NXP, Renesas Electronics (Transphorm), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Wide Band Gap Devices in 5G & Telecommunications Industry Forecast” looks at past sales and reviews total world Wide Band Gap Devices in 5G & Telecommunications sales in 2024, providing a comprehensive analysis by region and market sector of projected Wide Band Gap Devices in 5G & Telecommunications sales for 2025 through 2031. With Wide Band Gap Devices in 5G & Telecommunications sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Wide Band Gap Devices in 5G & Telecommunications industry.

This Insight Report provides a comprehensive analysis of the global Wide Band Gap Devices in 5G & Telecommunications landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Wide Band Gap Devices in 5G & Telecommunications portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Wide Band Gap Devices in 5G & Telecommunications market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Wide Band Gap Devices in 5G & Telecommunications and breaks down the forecast by Type, 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 Wide Band Gap Devices in 5G & Telecommunications.

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This report presents a comprehensive overview, market shares, and growth opportunities of Wide Band Gap Devices in 5G & Telecommunications market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

GaN Devices

SiC Devices

Segmentation by Application:

Remote Radio Head (RRH)

Active Antenna System (AAS)

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

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- 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 analysing the company's coverage, product portfolio, its market penetration.

- Qorvo

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Wolfspeed, Inc

Sumitomo Electric Device Innovations (SEDI) (SCIOCS)

NXP

Renesas Electronics (Transphorm)

Infineon (GaN Systems)

STMicroelectronics

Microchip Technology

Rohm

Toshiba

MACOM

Efficient Power Conversion Corporation (EPC)

RFHIC Corporation

WAVICE Inc

Raytheon

Mitsubishi Electric

Northrop Grumman

Ampleon

UMS RF

Epistar Corp.

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CETC 55

Innoscience

China Resources Microelectronics Limited

CorEnergy

Qingdao Cohenius Microelectronics

Dynax Semiconductor

Sanan Optoelectronics

Shenzhen Taigao Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Wide Band Gap Devices in 5G & Telecommunications market?

What factors are driving Wide Band Gap Devices in 5G & Telecommunications market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Wide Band Gap Devices in 5G & Telecommunications market opportunities vary by end market size?

How does Wide Band Gap Devices in 5G & Telecommunications break out by Type, by Application?

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