

Gallium Nitride Market Overview by Industry Chain Information, Upstream Raw Materials & Downstream Industry

Growing demand for gallium nitride devices in consumer electronics is one of the significant factors influencing the market growth.

VANCOUVER, BC, CANADA, March 21, 2022 /EINPresswire.com/ -- The global [gallium nitride market](#) is projected to be worth USD 320.4 Million by 2027, according to a current analysis by Emergen Research. The



gallium nitride market is observing high demand attributed to the growing demand for gallium nitride devices in consumer electronics. Gallium nitride is garnering significant traction in the market and is replacing silicon for use in fast chargers for laptops and smart devices. In the last couple of years, the screen and battery size of smartphones have witnessed a significant increase, which, in turn, is causative of increased power consumption for smartphones, thereby pushing the market for fast chargers.

This report on the global gallium nitride market gives a thorough study that is primarily focused on top players and their business stratagem, geographical extent, market segments, competitive landscape, manufacturing, and pricing and cost structures. Each section of the research study is explicitly prepared to explore crucial fragments of the global gallium nitride market. For instance, the market dynamics section in the report gives an in-depth analysis of the drivers, restraints, trends, and opportunities in the global gallium nitride market. With both qualitative and quantitative analysis, we provide you with thorough and comprehensive information on the global gallium nitride market.

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The report offers a comprehensive overview of the competitive landscape and covers company profiles, production and manufacturing capacity, product portfolio, expansion strategies, and

business initiatives such as mergers and acquisitions, joint ventures, collaborations, partnerships, and product launches and brand promotions among others. It also offers key insights into financial standing, market reach, global position, gross profit margins, and investment and funding initiatives.

Some Key Highlights from the Report

In September 2019, Mitsubishi Electric Corporation declared the development of GaN-HEMT in a multi-cell structure in partnership with the National Institute of Advanced Industrial Science and Technology (AIST) and Research Center for Ubiquitous MEMS and Micro Engineering. The transistor is attached directly to a high thermal conductivity single-crystal heat-dissipating diamond substrate.

Gallium nitride finds application in smaller electronics, high-performance EVs and is the primary material for modern-day LED lighting solutions.

Gallium nitride is of immense significance in photovoltaic cells by enabling them to realize much higher power density than the silicon-based photovoltaic cell.

North America, led by the US, held a significant market share in 2019 attributed to the swift advancements in the automotive and aerospace sectors and surging demand for semiconductor devices in several applications, including military and medical.

Major Players/Manufacturers profiled in the report are:

DOWA Electronics Materials Co. Ltd., Cree Inc., American Elements, Furukawa Co. Ltd., Mitsubishi Chemical Corporation, Kyma Technologies Inc., Soitec, IQE PLC, Infineon Technologies, and Nitride Semiconductors Co. Ltd., among others.

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Emergen Research has segmented the global gallium nitride market on the basis of substrate type, distribution channel, application, and region:

Substrate Type Outlook (Revenue, USD Billion; 2017-2027)

GaN-on-SiC

GaN-on-Si

GaN-on-Sapphire

Others

Distribution Channel Outlook (Revenue, USD Billion; 2017-2027)

Online

Offline

Application Outlook (Revenue, USD Billion; 2017-2027)

Radio Frequency Devices

Wireless Infrastructure

Satellite Communication

Military & Defense

Others

Power Electronics

Power Supply

Electric Vehicle

LiDAR

Servers & Data Centers

Wireless Power

Solar Photovoltaic Technology

Envelope Tracking

Others

Optoelectronics

LED

LASER

Others

Regional Analysis:

The report sheds light on the region expected to dominate the Gallium Nitride market in the coming years. The report estimates the market size in terms of volume and value and offers an accurate estimate of the market share each region is anticipated to hold during the forecast period. The report analyzes the spread of the Gallium Nitride market in key geographies covering North America, Latin America, Europe, Asia Pacific, and Middle East & Africa. The regional analysis offers an idea about the production and consumption pattern, import/export, supply and demand ratio, revenue contribution, market share and size, and the presence of prominent players in each region.

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The report further sheds light on the strength, weaknesses, opportunities, and threats faced by the companies in the global Gallium Nitride market and additionally measures the feasibility and investment return analysis in the report. Furthermore, the report is furnished with the latest impact of the COVID-19 pandemic on the market and covers the initial and future assessment of the COVID-19 impact on the market. The report is a qualitative and quantitative assessment of the global Gallium Nitride market that has been formulated by extensive primary and secondary research with the data further validated from industry experts and professionals.

Key Benefits of the Report:

Comprehensive analysis of the competitive scenario and its changing dynamics

Analytical data with detailed SWOT analysis and Porter's Five Forces analysis

In-depth 8 year analysis of the Global Gallium Nitride Market

Critical assessment of the key market segments

Comprehensive analysis of the drivers, restraints, trends, and opportunities

Detailed regional analysis and extensive company profiling

Extensive assessment of current and emerging trends of the market

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