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GaN LED Chips Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024–2032

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Abstracts

The Global GaN LED Chips Market reached USD 27.5 billion in 2023 and is expected to grow at 9% CAGR from 2024 to 2032. The increasing adoption of electric vehicles (EVs) and advanced driver-assistance systems (ADAS) is driving the demand for GaN LED chips, enhancing vehicle efficiency and safety. GaN LED chips are crucial in advancing display technologies, particularly in micro-LED displays. The displays offer superior brightness, color accuracy, and longevity compared to traditional LCDs and OLEDs. High-end consumer electronics, such as smartphones, televisions, and wearables, are increasingly adopting these displays.

The trend towards thinner and more power-efficient displays is boosting the use of GaN LED chips. The industry value from consumer electronics segment is projected to grow at a CAGR of over 10% during the forecast period. GaN LED chips are essential in consumer electronics, powering devices that require high-quality display and illumination. Applications include televisions, computer monitors, smartphones, and tablets.

Their high brightness, color accuracy, and energy efficiency make them the preferred choice for backlighting displays and enhancing visual experiences. The market categorizes wafer sizes into 2-inch, 4-inch, 6-inch, and 8-inch. The 2-inch segment is expected to dominate by 2032. The 2-inch segment refers to the size of LED chips used in applications requiring compact and precise lighting solutions. These chips are commonly used in small-scale lighting fixtures, portable devices, and compact electronics where space is limited.

GaN LED chips of this size offer high brightness and efficiency while fitting into smaller form factors. Their reliable performance in a compact size makes them suitable for various specialized applications. North America led the global GaN LED Chips market in 2023, accounting for over 35% of the market share. The United States and Canada are leaders in adopting advanced lighting technologies.

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The region's focus on energy conservation and replacing traditional lighting systems with LED solutions has significantly boosted the demand for GaN LED chips. Major semiconductor companies and research institutions in the U.S. have contributed to the development and commercialization of GaN-based products. The automotive and consumer electronics industries are key sectors driving the market in North America. The region is also seeing growing interest in GaN technology for emerging applications such as Li-Fi, which is expected to further expand the market in the coming years.

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