

# Quad-Flat-No-Lead Packaging Market Trends, Active Key Players, and Growth Projection Up to 2031

*Quad-Flat-No-Lead Packaging Market Expected to Reach \$1.1 Billion by 2031 — Allied Market Research*

WILMINGTON, DELAWARE, UNITED STATES, July 11, 2024 /EINPresswire.com/ -- Usage of quad-flat-no-lead packaging technology is increasing in consumer electronics and semiconductor packaging. The advantages of the QFN packages' cost and performance, as well as their proximity to the boards, make them particularly interesting for radio frequency (RF) applications. Allied Market Research, titled, "[Quad-Flat-No-Lead Packaging Market](#)," The quad-flat-no-lead packaging market size was valued at \$453.10 million in 2021, and is estimated to reach \$1.1 billion by 2031, growing at a CAGR of 8.8% from 2022 to 2031.



Quad-Flat-No-Lead Packaging Market

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Quad-flat-no-lead packaging technology is increasingly used in automotive accessories like steering controls and automatic wipers, driving market growth in the coming years.”

*Allied Market Research*

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The quad flat-no-lead (QFN) is a leadless packaging with exposed die pads for mechanical and thermal integrity. It also has peripheral terminal pads. The container may be either rectangular or square. The QFN package could be utilized in a variety of applications. QFN packaging is appropriate for applications that require low standoff

heights, decreased footprint, increased thermal performance, or reduced weight. This bundle can greatly benefit portable electronic devices, cell phones, and other devices.

The thermal cycle stress that a quad-flat-no-lead component might endure throughout its



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- COVID-19 impacted almost all industries and the electronics and semiconductor manufacturing companies stopped their operations owing to import-export restrictions, lockdown imposed across several countries, and a shortage of labor; the fear of contracting the novel coronavirus led to a decrease in demand in the market.
- Social distancing norms closed borders, and production constraints, due to the pandemic, across various countries such as China, India, and the U.S. have affected the global market.
- The emergence of the COVID-19 pandemic negatively affected the quad-flat-no-lead packaging market. The automotive industry was badly affected during the COVID-19 pandemic due to social distancing norms, import-export restrictions, and availability of raw materials which resulted in a reduction in demand for quad-flat-no-lead packaging as it is widely used in automobile components.
- Due to the COVID-19 pandemic demand for QFN from the semiconductor manufacturing sector decreased, due to various governments throughout the world instituted limitations including lockdowns and social distancing rules, which influenced the semiconductor industry's ability to produce semiconductors. As a result, demand for quad-flat-no-lead technology decreased.

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- Based on type, the air-cavity QFN sub-segment emerged as the global leader in 2021 and the fastest-growing sub-segment during the forecast period
- Based on the molding method, the punched sub-segment emerged as the global leader in 2021, and the sawn sub-segment is predicted to show the fastest growth in the upcoming years
- Based on the terminal pads, the fully exposed terminal ends sub-segment emerged as the global leader and fastest growing sub-segment during the forecast period
- Based on industry vertical, the automotive sub-segment emerged as the global leader and fastest-growing sub-segment during the forecast period
- Based on region, the Asia-Pacific market registered the highest market share in 2021 and is projected to maintain the position during the forecast period.
- The report also provides in-depth Quad-Flat-No-Lead Packaging Market Analysis

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