

Planar Lightwave Circuit Splitter Market Poised for Growth: Key Trends and Innovations to Watch

Planar Lightwave Circuit Splitter Market Expected to reach \$1,352.70 Million by 2023

WILMINGTON, DE, UNITED STATES, November 25, 2024 / EINPresswire.com/ -- Allied Market Research, titled,"Planar lightwave circuit splitter Market by Type and Application: Global Opportunities Analysis and Industry Forecast, 2017 - 2023," the global planar lightwave circuit splitter market was valued at \$778.80 million in 2016, and is projected to reach \$1,352.70 million by

Global Planar Lightwave Circuit Splitter Market is expected to reach \$1,352.70 million by 2023.

Growing at a CAGR of 7.8% (2017-2023)

Planar Lightwave Circuit Splitter Market Growth

2023, growing at a CAGR of 7.80% from 2017 to 2023.

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Rising demand for efficient fiber optic networks and advancements in digital technology are driving the planar lightwave circuit splitter market, which is projected to reach \$1,352.70 million by 2023."

Allied Market Research

A planar lightwave circuit splitter is a type of optical power management device fabricated using silica optical waveguide technology to distribute optical signals. The planar lightwave circuit splitter market provides a comprehensive analysis of the industry trends along with an analysis of the entire ecosystem of planar circuit splitters.

In 2016, the 1N segment dominated the Planar lightwave circuit splitter market, in terms of revenue, due to an increase in investment in the IT and telecommunication

sector. The 1N optical splitters are deployed in star networks, the use of optical splitters in PON

allows the service provider to conserve fibers in the backbone, essentially using one fiber to feed as many as 64 end users. The requirement for a star configuration network across various indoor and outdoor cabling applications drives the growth of the market. The FTTX and telecommunication segments jointly accounted for about 46.8% share in 2016, with the former constituting around 26.5% share.

North America was the highest revenue contributor to the planar lightwave circuit splitter market in 2016, accounting for around 37.41% share, owing to a surge in demand for wide operating wavelength across the network fabrication and installation and the presence of the well-established planar lightwave circuit splitter industry. The planar lightwave circuit splitter is highly used over long-distance transmission and measures such as insertion losses as low as 0.5 dB and disturbance values of 1721 dB to achieve minimum loss. Moreover, owing to their smaller space requirement they can be used in applications where the use of traditional components such as optical fibers, Fused Bi-conical Taper (FBT), self-aligned semiconductors, and optical amplifier gate arrays are not possible. Continuous advancements in 5G technology can provide better opportunities for vendors to tap into the market potential. The planar lightwave circuit splitters are also being adopted for military surveillance purposes. However, the availability of low-cost fiber optic splitters or beam splitters may act as a restraint to the growth of the planar lightwave circuit splitter market.

Recent technological advancements and the need for simple & smaller components drive the demand for planar lightwave circuit splitters in the market. The PLC does not require any external power for operations, and thus, provides reliability in terms of operations.

To drive the power flow over a long distance without any disturbance, cascading technology is used in the splitter. This ensures effective optical power management, which leads to superior functionality and permits equal splitting of a signal.

The components that are required in the manufacturing process are smaller in size and require higher precision to create a product worthy. Such processes increase the complexity of the overall manufacturing process which in turn incurs significant product costs and thereby impedes market growth.

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These players have adopted various competitive strategies such as innovation, new product development, acquisition, and market expansion to boost the growth of the planar lightwave circuit splitter market. For instance, Prysmian acquired General Cable for USD 30.00 per share in cash to enhance its position in the cable industry increasing its presence in North America and expanding its footprint in Europe and South America.

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- The 1N segment accounted for the highest share in the planar lightwave circuit splitter market in 2016, growing at a CAGR of 7.70% from 2017 to 2023.
- The FTTX application generated the highest revenue, accounting for \$206.5 million in 2016.
- The PON application is expected to grow at a CAGR of 8.8% from 2016 to 2023.
- North America is expected to dominate the market, in terms of market share, during the forecast period.
- Asia-Pacific and LAMEA are expected to witness significant growth at a CAGR of 10.0% and 9.4% respectively, during the forecast period.

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