

Avalanche Photodiode Market Projected Growth and Key Trends Through 2027

Avalanche Photodiode Market Expected to Reach \$202.5 Million By 2027

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EINPresswire.com/ -- Allied Market Research, titled, "[Avalanche Photodiode Market](#) By Material and End User: Global Opportunity Analysis and Industry Forecast, 2020-2027", the global avalanche photodiode (APD) market size was valued at \$151.2 million in 2019, and is projected to reach \$202.5 million by 2027, growing at a CAGR of 3.5% from 2020 to 2027.



Avalanche Photodiode (APD) Market

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Global avalanche photodiode market driven by optical tech, healthcare demand, and digitalization. Technical issues hinder adoption but R&D offers growth opportunities.”

Allied Market Research

In 2019, Asia-Pacific dominated the avalanche photodiode market share among all regions analyzed, contributing more than 50% share of the overall revenue. The major industries that support the economy of the countries in the region are mining & extraction, food processing, automobiles, aerospace, naval, electronics & semiconductors, textile, and others. These industries use various laser devices, optical scanners, and other systems for applications such as inspection, scanning, mapping & planning, and others. The optical systems use avalanche

photodiode, which drives the market demand.

The telecommunication industry was the dominant segment in 2019 for the avalanche photodiode market and is also expected to maintain its dominance during the analysis period. The adoption of the latest technology such as 4G, drives market growth due to the use of optical

communication for high-speed data transfer. Optical communication uses avalanche photodiodes, due to their ability to achieve high internal gain at relatively high speeds and low excess noise, thus improving the signal-to-noise ratio of the system. Therefore, avalanche photodiodes are highly adopted in the telecommunication industry.

The use of optical technology industries, the rise in demand for diagnostic devices and systems in healthcare, and digitalization in developing economies drive the [avalanche photodiode market growth](#). However, technical issues with the avalanche photodiode hamper its adoption. This hampers the growth of the market. On the contrary, the adoption of optics in R&D in the field of science provides lucrative opportunities for the growth of the avalanche photodiode market during the forecast period.

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The Avalanche Photodiode industry's key market players adopt various strategies such as product launch, product development, collaboration, partnership, and agreements to influence the market. It includes details about the key players in the market's strengths, product portfolio, market size and share analysis, operational results, and market positioning.

Some of the key players in the market are:

- KYOTO SEMICONDUCTOR Co., Ltd.
- LUMENTUM OPERATIONS LLC
- EXCELITAS TECHNOLOGIES CORP.
- SIFOTONICS TECHNOLOGIES CO., LTD
- LUNA
- FIRST SENSOR AG
- RENESAS ELECTRONICS CORPORATION
- GLOBAL COMMUNICATION SEMICONDUCTORS, LLC
- OSI OPTOELECTRONICS
- HAMAMATSU PHOTONICS K.K.

According to Ruchal Humbare, Lead Analyst, Semiconductor and Electronics at Allied Market Research, "Rise in adoption of InGaAs avalanche photodiode as per the [avalanche photodiode market trend](#) is expected to create lucrative opportunities. The use of avalanche photodiodes in low-energy X-rays drives market growth. In addition, the rise in the adoption of optical technology in the healthcare industry makes way for lucrative growth opportunities in the future."

Region-wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA. Asia-

Pacific was the highest revenue generator in 2019, accounting for \$73.16 million, and is estimated to garner \$106.61 Million by 2027, growing at a CAGR of 4.6%.

The avalanche photodiode market is segmented based on material, end user, and region. Based on material, it is categorized into silicon materials, germanium materials, InGaAs materials, and others. By end user, it is classified as industrial, aerospace & defense, telecommunication, healthcare, commercial, and others. Region-wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

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Key findings from the report:

- By material, the silicon materials segment held the highest revenue of \$71.79 million in 2019 and contributed a major part to the avalanche photodiode market share.
- By end user, the telecommunication segment held the highest revenue share of the market in 2019, generating \$51.39 million as per the avalanche photodiode market analysis.
- By region, Asia-Pacific is expected to dominate the market, garnering a major avalanche photodiode market share during the forecast period.

Key highlights:

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