

Global Avalanche Photo Diode Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Avalanche Photo Diode market size was valued at USD 138.5 million in 2023 and is forecast to a readjusted size of USD 227.8 million by 2030 with a CAGR of 7.4% during review period.

The Avalanche Photo Diode industry can be broken down into several segments, Si-APD, InGaAs-APD, Others, etc.

Across the world, the major players cover First-sensor, Hamamatsu, Kyosemi Corporation, Luna, Excelitas, Osi optoelectronics, Edmund Optics, GCS, Accelink, NORINCO GROUP, etc.

Avalanche Photo Diode (APD) is a highly sensitive semiconductor electronic device that exploits the photoelectric effect to convert light to electricity. APDs can be thought of as photodetectors that provide a built-in first stage of gain through avalanche multiplication. From a functional standpoint, they can be regarded as the semiconductor analog to photomultipliers. By applying a high reverse bias voltage, APDs show an internal current gain effect due to impact ionization. However, some silicon APDs employ alternative doping and beveling techniques compared to traditional APDs that allow greater voltage to be applied before breakdown is reached and hence a greater operating gain. In general, the higher the reverse voltage, the higher the gain.

Avalanche Photo Diode (APD) applicability and usefulness depends on many parameters. Two of the larger factors are: quantum efficiency, which indicates how well incident optical photons are absorbed and then used to generate primary charge carriers; and total leakage current, which is the sum of the dark current and

photocurrent and noise. Electronic dark noise components are series and parallel noise. Series noise, which is the effect of shot noise, is basically proportional to the APD capacitance while the parallel noise is associated with the fluctuations of the APD bulk and surface dark currents. Another noise source is the excess noise factor, ENF. It describes the statistical noise that is inherent with the stochastic APD multiplication process. This is not to be confused with the fano noise (F), which describes the fluctuation of the total electric charge collected in the APD.

First-sensor and Hamamatsu are the biggest two players in Avalanche Photo Diode market. Other enterprises including Kyosemi, Excelitas, Osi optoelectronics, GCS, Accelink, and NORINCO GROUP, etc. First-sensor and Hamamatsu are the biggest two players in Avalanche Photo Diode market, with about 20% and 16% market share (revenue) separately in 2019.

Production Locations of these leading brands mainly distributed in Japan, USA, and European.

There are two types of avalanche photo diode, one is Si-APD, the other is InGaAs-APD.

As for application, avalanche photo diode can be used in industrial, medical and mobility. Industry accounted for about 44% of the market share in 2019.

The Global Info Research report includes an overview of the development of the Avalanche Photo Diode industry chain, the market status of Industrial (Si-APD, InGaAs-APD), Medical (Si-APD, InGaAs-APD), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Avalanche Photo Diode.

Regionally, the report analyzes the Avalanche Photo Diode markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Avalanche Photo Diode market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Avalanche Photo Diode market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends,

challenges, and opportunities within the Avalanche Photo Diode industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Si-APD, InGaAs-APD).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Avalanche Photo Diode market.

Regional Analysis: The report involves examining the Avalanche Photo Diode market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Avalanche Photo Diode market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Avalanche Photo Diode:

Company Analysis: Report covers individual Avalanche Photo Diode manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Avalanche Photo Diode This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial, Medical).

Technology Analysis: Report covers specific technologies relevant to Avalanche Photo Diode. It assesses the current state, advancements, and potential future developments in Avalanche Photo Diode areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Avalanche Photo Diode market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Avalanche Photo Diode market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Si-APD

InGaAs-APD

Others

Market segment by Application

Industrial

Medical

Mobility

Others

Major players covered

First-sensor

Hamamatsu

Kyosemi Corporation

Excelitas

Osi optoelectronics

GCS

Accelink

NORINCO GROUP

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Avalanche Photo Diode product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Avalanche Photo Diode, with price, sales, revenue and global market share of Avalanche Photo Diode from 2019 to 2024.

Chapter 3, the Avalanche Photo Diode competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Avalanche Photo Diode breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Avalanche Photo Diode market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Avalanche Photo Diode.

Chapter 14 and 15, to describe Avalanche Photo Diode sales channel, distributors, customers, research findings and conclusion.

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