

# Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) APD Avalanche Photodiode Market 2018, Forecast to 2023

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## Abstracts

APD Avalanche Photodiode (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.

### SCOPE OF THE REPORT:

This report focuses on the APD Avalanche Photodiode in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. Regionally, Europe is the biggest Consumption area of APD avalanche photodiode in the world and China is the most potential market with the fastest growing rate of 11.68%.

From the view of application market, industrial segment is the most active and potential field because of the widely use with the market share of 48.27%, in terms of revenue. Although there is big difference between big companies such as First-sensor with new companies, especially in the price of products, customers still willing to pay more money to achieve products or service with higher quality. Therefore, it will become harder and harder for a new company which doesn't have its own core technology and R&D team to survive in this technology-intensive battle.

As a new kind of photodiode, the consumption process will become mature gradually with more and more companies enter this field. As two key parameters, wavelength and frequency response play vital role in the quality system of APD avalanche photodiode.

For price trend analysis, a key raw material of APD avalanche photodiode producers is semiconductor materials, specifically the speed at which any increase can be passed through to customers.

The worldwide market for APD Avalanche Photodiode is expected to grow at a CAGR of roughly 2.0% over the next five years, will reach 130 million US\$ in 2023, from 120 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

First-sensor

Hamamatsu

Kyosemi Corporation

Luna

Excelitas

Osi optoelectronics

Edmund Optics

GCS

SiFotonics

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

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

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Si APD

InGaAs APD

Others

Market Segment by Applications, can be divided into

Industrial

Medical

Mobility

Others

There are 15 Chapters to deeply display the global APD Avalanche Photodiode market.

Chapter 1, to describe APD Avalanche Photodiode Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of APD Avalanche Photodiode, with sales, revenue, and price of APD Avalanche Photodiode, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share

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of APD Avalanche Photodiode, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, APD Avalanche Photodiode market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe APD Avalanche Photodiode sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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