

Global APD Avalanche Photodiode Market Research Report 2012-2024

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Abstracts

SUMMARY

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. The global APD Avalanche Photodiode market will reach xxx Million USD in 2019 with CAGR xx% 2019-2024. The objective of report is to define, segment, and project the market on the basis of product type, application, and region, and to describe the content about the factors influencing market dynamics, policy, economic, technology and market entry etc.

Based on products type, the report describes major products type share of regional market. Products mentioned as follows:

Silicon Materials

Germanium Materials

InGaAs Materials

Others

Leading vendors in the market are included based on profile, business performance etc. Vendors mentioned as follows:

First-sensor

Hamamatsu

Kyosemi Corporation

LUNA

Excelitas

Osi optoelectronics

Edmund Optics

GCS

SiFotonics

Based on Application, the report describes major application share of regional market. Application mentioned as follows:

Industrial

Medical

Mobility

Others

Based on region, the report describes major regions market by products and application. Regions mentioned as follows:

Asia-Pacific

North America

Europe

South America

Middle East & Africa

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