

Global Silicon Photomultiplier Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Silicon Photomultiplier market size will reach 176.45 Million USD in 2025 and is projected to reach 269.37 Million USD by 2032, with a CAGR of 6.23% (2025-2032). Notably, the China Silicon Photomultiplier market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A silicon photomultiplier (SiPM) is a highly sensitive semiconductor device used for detecting low levels of light, particularly in photon-counting applications. It consists of an array of avalanche photodiodes (APDs) operated in Geiger mode, each connected to a quenching resistor. When a photon strikes the SiPM, it triggers an avalanche breakdown in one or more of the APDs, generating a measurable electrical signal. SiPMs offer advantages over traditional photomultiplier tubes, such as compact size, low operating voltage, insensitivity to magnetic fields, and high quantum efficiency in the visible to near-infrared spectrum. They find applications in various fields, including medical imaging, particle physics, LiDAR, and astronomy, where their high sensitivity, fast response time, and excellent timing resolution enable precise detection and measurement of low-light signals, contributing to advancements in scientific research and technology.

The major global manufacturers of Silicon Photomultiplier include ON Semiconductor (SensL), Hamamatsu Photonics, Broadcom, TE Connectivity (Fisrt Sensor), etc. The

global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Silicon Photomultiplier. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Silicon Photomultiplier market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Silicon Photomultiplier market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Silicon Photomultiplier industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Silicon Photomultiplier Include:

ON Semiconductor (SensL)

Hamamatsu Photonics

Broadcom

TE Connectivity (Fisrt Sensor)

Silicon Photomultiplier Product Segment Include:

Monocoque Type

Array Type

Silicon Photomultiplier Product Application Include:

Medical Imaging

Bioscience

3D Ranging and Imaging

Others

Chapter Scope

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