

Global SPAD/SiPM Chips Market Growth 2025-2031

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Abstracts

The global SPAD/SiPM Chips market size is predicted to grow from US\$ 2584 million in 2025 to US\$ 9565 million in 2031; it is expected to grow at a CAGR of 24.4% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

SPAD (Single Photon Avalanche Diode) is a photodetector specially designed for detecting single photons. It is based on the working principle of avalanche diode (APD) and works in Geiger mode. In this mode, the bias voltage of the diode is set higher than the avalanche voltage, so that even if only one photon is detected, it will trigger the avalanche effect, thereby generating a large current pulse. SPAD is usually used in scenarios where the signal intensity requirement is extremely low. It can detect very weak light signals (such as single photon signals), so it has extremely high sensitivity.

SiPM (Silicon Photomultiplier) SiPM can be regarded as an array of multiple SPAD units, which is an array derivative of SPAD technology. SiPM contains multiple SPAD units working in Geiger mode, which are connected in parallel to output more complex signals in an analog manner. Because SiPM has multiple SPAD units, it can provide a wider dynamic range and can perform better than a single SPAD unit under the same environmental conditions. SiPM can not only detect photon signals, but also quantify light intensity, so it can provide more signal details than SPAD. By combining analog signal processing, SiPM can provide higher accuracy under different lighting conditions, which makes it unique in applications that need to process complex signals, such as medical imaging, industrial LiDAR and other fields.

Although SPAD and SiPM are based on similar technologies, there are significant

differences in performance. In terms of sensitivity, SPAD has very high sensitivity and can detect the signal of a single photon. This makes SPAD very suitable for detection in low-light intensity environments, such as night imaging or LiDAR ranging in low-light conditions. In this case, SPAD can provide extremely high detection capabilities, especially for applications such as vehicle-mounted LiDAR and quantum communication. SiPM can quantify light intensity through analog signal processing, thereby providing a wider signal response. This makes SiPM suitable for applications that require a higher dynamic range, such as medical imaging, industrial LiDAR, etc. In terms of response speed, SPAD has a very fast response speed, and its 'dead time' is extremely short (usually less than 10 nanoseconds), which means that it can quickly respond to multiple continuous photon signals. In a high-frequency detection environment, SPAD can quickly capture and process signals, which is suitable for applications such as high-speed imaging and real-time detection. In contrast, SiPM has a slower response speed, especially when multiple SPAD units in its array need to process signals simultaneously. However, the advantage of SiPM is that it can provide higher signal details and wider dynamic range, which makes up for the lack of response speed in some applications. In terms of integration and cost, SiPM uses standard CMOS process, which can achieve high integration, so its production cost is relatively low. The high integration and low cost of SiPM have made it widely used in medical imaging and some industrial applications. SPAD is also highly integrated, but its cost is higher than SiPM because it requires complex packaging and 3D stacking process. Despite this, SPAD still dominates in high-performance applications, especially in automotive lidar and quantum communication.

With the continuous advancement of lidar technology, detector technology has gradually developed from traditional APD (Avalanche Photodiode) to SPAD (Single-Photon Avalanche Diode) and SiPM (Silicon Photomultiplier) arrays. Compared with APD, SPAD and SiPM have higher detection efficiency, lower noise and stronger integration, and can achieve accurate detection of single photons at low power consumption. Therefore, APD is gradually being replaced by SPAD and SiPM, especially in application scenarios requiring higher resolution and lower cost.

United States market for SPAD/SiPM Chips is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for SPAD/SiPM Chips is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for SPAD/SiPM Chips is estimated to increase from US\$ million in 2024

to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key SPAD/SiPM Chips players cover Hamamatsu Photonics, STMicroelectronics, Onsemi, Sony Semiconductor Solutions Corporation, Canon Inc., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "SPAD/SiPM Chips Industry Forecast" looks at past sales and reviews total world SPAD/SiPM Chips sales in 2024, providing a comprehensive analysis by region and market sector of projected SPAD/SiPM Chips sales for 2025 through 2031. With SPAD/SiPM Chips sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SPAD/SiPM Chips industry.

This Insight Report provides a comprehensive analysis of the global SPAD/SiPM Chips landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on SPAD/SiPM Chips portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SPAD/SiPM Chips market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SPAD/SiPM Chips and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global SPAD/SiPM Chips.

This report presents a comprehensive overview, market shares, and growth opportunities of SPAD/SiPM Chips market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

SPAD SoC

SiPM

Segmentation by Application:

Consumer Electronics

Automotive LiDAR

Medical Imaging

Industrial LiDAR

Quantum Communications

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Hamamatsu Photonics

STMicroelectronics

Onsemi

Sony Semiconductor Solutions Corporation

Canon Inc.

AMS OSRAM

PolarisIC

Adaps Photonics

Sophoton

Evisionics

Fortsense

Microparity

Shitong (Shenzhen) Microelectronics Technology Co., Ltd.

Xilight

Orbbec

RoboSense

Hesai Technology

Huawei

Key Questions Addressed in this Report

What is the 10-year outlook for the global SPAD/SiPM Chips market?

What factors are driving SPAD/SiPM Chips market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do SPAD/SiPM Chips market opportunities vary by end market size?

How does SPAD/SiPM Chips break out by Type, by Application?

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