

Global SPAD/SiPM Chips Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global SPAD/SiPM Chips market size was valued at US\$ 875 million in 2025 and is forecast to a readjusted size of US\$ 2101 million by 2032 with a CAGR of 11.7% during review period.

A Single-Photon Avalanche Diode chip is a semiconductor optoelectronic device designed for ultra-low-light detection and photon counting. Its core structure typically consists of a Geiger-mode avalanche photodiode element combined with a quenching resistor, enabling the device to generate a detectable avalanche pulse from a single incident photon. This makes SPAD chips suitable for time-of-flight ranging, 3D depth sensing, low-light imaging, quantum detection, biophotonics, and high-timing-resolution measurement. Commercial formats include single-pixel devices, array chips, sensor chips with on-chip readout, and related modules, with major production concentrated in Japan, Europe, North America, and China. Their key performance metrics generally include photon detection efficiency, dark count rate, timing jitter, crosstalk suppression, array integration capability, and system-level compatibility. Hamamatsu explicitly defines a SPAD as a semiconductor device capable of detecting single-photon events and notes that it is also referred to as a Geiger-mode avalanche diode.

A Silicon Photomultiplier chip is a solid-state photodetector built from many Geiger-mode microcells connected in parallel, and can be understood as a high-gain photon-counting chip formed by integrating multiple SPAD-based elements on one device. Each microcell is typically composed of an avalanche photodiode in series with a quenching resistor, while all microcells are connected in parallel to generate a summed output signal. This structure preserves single-photon sensitivity while providing a larger effective detection area and output characteristics better suited to system integration.

SiPM chips are widely used in PET, nuclear medicine, radiation detection, LiDAR reception, biosensing, and high-sensitivity scientific instruments, with major production also concentrated in Japan, Europe, North America, and China. Their competitiveness is mainly defined by photon detection efficiency, dark count rate, microcell density, dynamic range, temperature stability, packaging consistency, and timing performance. Hamamatsu explicitly states that MPPC is also known as SiPM and is a solid-state detector composed of multiple Geiger-mode APD pixels, while Broadcom likewise describes SiPMs as microcell-based array devices for ultra-sensitive precision measurement.

In 2025, global production of SPAD and SiPM chips reached approximately 140 million to 190 million units. Based on the commercial product mix, mainstream FOB prices were generally in the range of USD 4.8 to USD 5.8 per unit, with high-volume consumer and industrial SPAD ToF devices priced materially below high-performance SiPM products, while automotive-grade SPAD depth sensors and premium SiPM devices remained in higher price bands.

SPAD and SiPM chips are evolving from high-end scientific and specialist medical detectors into foundational devices for next-generation intelligent sensing and precision measurement platforms. Their momentum does not come from sensitivity alone. It comes from combining single-photon-level detection, fast timing response, stronger solid-state integration potential, and smaller system footprints, enabling applications that once depended on traditional vacuum devices or more complex optical architectures to move toward scalable, compact, and reusable semiconductor solutions. The strongest demand is currently being driven by three major tracks: SPAD-based ToF ranging, 3D depth sensing, and automotive and industrial LiDAR; SiPM-based PET, nuclear medicine, and radiation detection; and ultra-low-light, high-timing-resolution detection for biophotonics, quantum technologies, and advanced scientific instruments. As automotive sensing, robotics, smart infrastructure, medical imaging, and advanced industrial inspection continue to expand, SPAD and SiPM devices are moving from isolated niche uses toward broader system-level penetration.

That expansion, however, is not linear. The SPAD route still needs to address dark count noise, crosstalk, afterpulsing, readout complexity in larger arrays, and ambient-light interference, while the SiPM route must continue improving the balance among microcell density, dynamic range, temperature drift, packaging yield, and end-system compatibility. At the same time, downstream customers are shifting away from purely parameter-driven purchasing and toward full-system fit, including emitter-receiver coordination, on-chip TDC and algorithm processing, packaging and optics-window

matching, long-term supply assurance, and qualification capability. The decisive factor in future competition will therefore not be limited to who can make the highest-performance chip, but who can convert device performance, manufacturing consistency, and design-in efficiency into scalable commercial value across medical, automotive, industrial, and scientific applications.

This report is a detailed and comprehensive analysis for global SPAD/SiPM Chips market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global SPAD/SiPM Chips market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global SPAD/SiPM Chips market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global SPAD/SiPM Chips market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global SPAD/SiPM Chips market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for SPAD/SiPM Chips

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global SPAD/SiPM Chips market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Shenzhen Adaps Photonics Technology Co., Ltd., Shenzhen Fortsense Technology Co., Ltd., Suzhou Sophoton Technology Co., Ltd., Shenzhen PolarisIC Microelectronics Co., Ltd., Hangzhou Microparity Technology Co., Ltd., Ningbo Xilight Technology Co., Ltd., Hamamatsu Photonics K.K., onsemi, Sony Semiconductor Solutions Corporation, STMicroelectronics N.V., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

SPAD/SiPM Chips market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

SiPM Chips

SPAD Chips

Market segment by Product Form

Packaged Detector Chips

Array and Sensor Chips

Bare Dies

Market segment by Process Node

> 180 Nm

90 Nm - 180 Nm

Market segment by Technology

Silicon Based (Si)

III-V Compound (InGaAs)

Hybrid Integration

Market segment by Application

Automotive and Mobility

Consumer Electronics

Medical and Healthcare

Others

Major players covered

Shenzhen Adaps Photonics Technology Co., Ltd.

Shenzhen Fortsense Technology Co., Ltd.

Suzhou Sophoton Technology Co., Ltd.

Shenzhen PolarisIC Microelectronics Co., Ltd.

Hangzhou Microparity Technology Co., Ltd.

Ningbo Xilight Technology Co., Ltd.

Hamamatsu Photonics K.K.

onsemi

Sony Semiconductor Solutions Corporation

STMicroelectronics N.V.

Canon Inc.

ams OSRAM AG

Micro Photon Devices S.r.l.

Pi Imaging Technology SA

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 SPAD/SiPM Chips product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SPAD/SiPM Chips, with price, sales quantity, revenue, and global market share of SPAD/SiPM Chips from

2021 to 2026.

Chapter 3, the SPAD/SiPM Chips competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SPAD/SiPM Chips breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and SPAD/SiPM Chips market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 SPAD/SiPM Chips.

Chapter 14 and 15, to describe SPAD/SiPM Chips sales channel, distributors, customers, research findings and conclusion.

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