

Global SPAD/SiPM Chips Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global SPAD/SiPM Chips market size is expected to reach \$ 2101 million by 2032, rising at a market growth of 11.7% CAGR during the forecast period (2026-2032).

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 studies the global SPAD/SiPM Chips production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SPAD/SiPM Chips and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of SPAD/SiPM Chips that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SPAD/SiPM Chips total production and demand, 2021-2032, (Million Units)

Global SPAD/SiPM Chips total production value, 2021-2032, (USD Million)

Global SPAD/SiPM Chips production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global SPAD/SiPM Chips consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: SPAD/SiPM Chips domestic production, consumption, key domestic manufacturers and share

Global SPAD/SiPM Chips production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global SPAD/SiPM Chips production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global SPAD/SiPM Chips production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global SPAD/SiPM Chips market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SPAD/SiPM Chips market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global SPAD/SiPM Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SPAD/SiPM Chips Market, Segmentation by Type:

SiPM Chips

SPAD Chips

Global SPAD/SiPM Chips Market, Segmentation by Product Form:

Packaged Detector Chips

Array and Sensor Chips

Bare Dies

Global SPAD/SiPM Chips Market, Segmentation by Process Node:

> 180 Nm

90 Nm - 180 Nm

Global SPAD/SiPM Chips Market, Segmentation by Technology:

Silicon Based (Si)

III-V Compound (InGaAs)

Hybrid Integration

Global SPAD/SiPM Chips Market, Segmentation by Application:

Automotive and Mobility

Consumer Electronics

Medical and Healthcare

Others

Companies Profiled:

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

Key Questions Answered:

1. How big is the global SPAD/SiPM Chips market?
2. What is the demand of the global SPAD/SiPM Chips market?
3. What is the year over year growth of the global SPAD/SiPM Chips market?
4. What is the production and production value of the global SPAD/SiPM Chips market?
5. Who are the key producers in the global SPAD/SiPM Chips market?
6. What are the growth factors driving the market demand?

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