

Global SPAD 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 Chips market size was valued at US\$ 268 million in 2025 and is forecast to a readjusted size of US\$ 701 million by 2032 with a CAGR of 14.6% during review period.

SPAD Chips, or Single-Photon Avalanche Diode Chips, are high-sensitivity photodetector semiconductor chips operated in Geiger mode, capable of triggering avalanche multiplication and generating countable electrical pulses upon the arrival of individual photons. They are typically based on silicon or compound semiconductor platforms such as InGaAs/InP and are supplied as discrete single-pixel chips, linear-array chips, area-array chips, CMOS-integrated SPAD array chips, or time-of-flight sensing chips with integrated quenching circuits, readout circuits, time-to-digital converters, and signal-processing units. SPAD chips are primarily used for photon counting, low-light imaging, time-of-flight ranging, time-correlated single-photon counting, 3D sensing, and near-infrared detection. Typical applications include LiDAR, robotic perception, smartphones and extended-reality devices, industrial ranging, quantum communication, quantum computing, fluorescence lifetime imaging, medical imaging, scientific instruments, astronomy, and low-light security. Major development and supply capabilities are concentrated in Japan, Europe, the United States, China, South Korea, and Taiwan. This scope covers chips and chip-level SPAD sensors only, excluding SPAD detector modules, cameras, LiDAR systems, medical equipment, scientific systems, and SiPM devices.

In 2025, global SPAD Chips production reached approximately 85 million to 105 million pieces, with mainstream chip-level FOB prices at around USD 2.60 to USD 3.10 per piece. This range represents a shipment-weighted ex-factory price for SPAD chips and chip-level SPAD sensors; low-cost time-of-flight ranging and distance-sensing chips

accounted for most unit shipments, while high-pixel-count arrays, scientific-grade devices, near-infrared-enhanced chips, and high-speed timing SPAD chips commanded substantially higher prices but represented a smaller share of total volume.

The global SPAD Chips market is moving from scientific instrumentation and high-end low-light detection toward larger-scale industrial adoption in consumer electronics, automotive sensing, robotics, industrial automation, and quantum information. As CMOS processing, backside illumination, 3D stacking, on-chip time-to-digital conversion, and multi-pixel array readout continue to mature, SPAD chips are evolving from low-volume, high-price, customized devices into scalable core sensing components for photon counting and time-of-flight applications. Downstream evaluation criteria are also becoming more comprehensive: beyond single-photon detection capability, photon detection efficiency, dark count rate, timing jitter, array size, power consumption, package size, temperature stability, and algorithm-level integration are increasingly determining customer adoption and commercial value.

The main market challenges lie in wafer fabrication yield, pixel uniformity, dark-noise control, package calibration, system-level validation, and long customer qualification cycles. Scientific research, quantum communication, and medical imaging applications require high sensitivity, stability, and timing resolution, but unit volumes remain limited; consumer electronics, automotive LiDAR, and robotic perception offer stronger volume potential, but place stricter requirements on cost, power consumption, reliability, and supply-chain maturity. Future demand is expected to expand along two parallel paths: low-cost miniaturized SPAD arrays will penetrate smart devices, industrial sensing, robotic obstacle avoidance, and smart infrastructure, while large-array, high-dynamic-range, near-infrared-enhanced, and high-speed timing SPAD chips will capture higher-value opportunities in automotive LiDAR, low-light machine vision, quantum information, and medical imaging. Overall, SPAD chips remain in a technology penetration phase, with stronger growth elasticity than conventional photodiodes and standard image sensors, although commercialization will remain closely tied to leading customer adoption, wafer-process maturity, and downstream application ramp-up cycles.

This report is a detailed and comprehensive analysis for global SPAD 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 Chips market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global SPAD 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 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 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 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 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., Fortsense Co., Ltd., Suzhou Sophoton Technology Co., Ltd., Shenzhen PolarisIC Microelectronics Co., Ltd., Hangzhou Microparity Technology Co., Ltd., Nanjing Evisionics Microelectronics Technology Co., Ltd., Sony Semiconductor Solutions Corporation, Hamamatsu Photonics K.K., Canon Inc., STMicroelectronics N.V., etc.

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

Market Segmentation

SPAD 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

Array Chips

Integrated Sensor Chips

Discrete and Single Pixel Chips

Others

Market segment by Spectral Response

Visible - NIR

SWIR

Others

Market segment by Integration

Standalone Sensor

Hybrid Integrated

Fully Integrated (SoC)

Market segment by Packaging

Surface Mount

Chip Scale Package

Others

Market segment by Application

Automotive

Consumer

Industrial & Medical

Others

Major players covered

Shenzhen Adaps Photonics Technology Co., Ltd.

Fortsense Co., Ltd.

Suzhou Sophoton Technology Co., Ltd.

Shenzhen PolarisIC Microelectronics Co., Ltd.

Hangzhou Microparity Technology Co., Ltd.

Nanjing Evisionics Microelectronics Technology Co., Ltd.

Sony Semiconductor Solutions Corporation

Hamamatsu Photonics K.K.

Canon Inc.

STMicroelectronics N.V.

ams-OSRAM AG

onsemi

Excelitas Technologies Corp.

SAAZ Micro Inc.

Micro Photon Devices S.r.l.

LASER COMPONENTS GmbH

Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company)

Singular Photonics Ltd.

Photon Force Ltd.

SOLIDVUE Inc.

Artilux, Inc.

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

Chapter 2, to profile the top manufacturers of SPAD Chips, with price, sales quantity, revenue, and global market share of SPAD Chips from 2021 to 2026.

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

Chapter 4, the SPAD 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 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 Chips.

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

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