

Global SPAD Chips Market Growth 2026-2032

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Abstracts

The global SPAD Chips market size is predicted to grow from US\$ 254 million in 2025 to US\$ 699 million in 2032; it is expected to grow at a CAGR of 15.6% from 2026 to 2032.

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.

LP Information, Inc. (LPI) ' newest research report, the "SPAD Chips Industry Forecast" looks at past sales and reviews total world SPAD Chips sales in 2025, providing a comprehensive analysis by region and market sector of projected SPAD Chips sales for 2026 through 2032. With SPAD Chips sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SPAD Chips industry.

This Insight Report provides a comprehensive analysis of the global SPAD 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 Chips portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SPAD Chips market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SPAD 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 Chips.

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

Segmentation by Type:

Array Chips

Integrated Sensor Chips

Discrete and Single Pixel Chips

Others

Segmentation by Spectral Response:

Visible - NIR

SWIR

Others

Segmentation by Integration:

Standalone Sensor

Hybrid Integrated

Fully Integrated (SoC)

Segmentation by Packaging:

Surface Mount

Chip Scale Package

Others

Segmentation by Application:

Automotive

Consumer

Industrial & Medical

Others

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.

Shenzhen Adaps Photonics Technology Co., Ltd.

Fortisense 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.

Artlux, Inc.

Key Questions Addressed in this Report

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

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

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

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

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

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