

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

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Abstracts

The global SPAD Chips market size is expected to reach \$ 701 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

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.

This report studies the global SPAD Chips production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SPAD 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 Chips that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global SPAD 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., 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SPAD 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 Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SPAD Chips Market, Segmentation by Type:

Array Chips

Integrated Sensor Chips

Discrete and Single Pixel Chips

Others

Global SPAD Chips Market, Segmentation by Spectral Response:

Visible - NIR

SWIR

Others

Global SPAD Chips Market, Segmentation by Integration:

Standalone Sensor

Hybrid Integrated

Fully Integrated (SoC)

Global SPAD Chips Market, Segmentation by Packaging:

Surface Mount

Chip Scale Package

Others

Global SPAD Chips Market, Segmentation by Application:

Automotive

Consumer

Industrial & Medical

Others

Companies Profiled:

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

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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 Answered:

1. How big is the global SPAD Chips market?
2. What is the demand of the global SPAD Chips market?
3. What is the year over year growth of the global SPAD Chips market?

4. What is the production and production value of the global SPAD Chips market?
5. Who are the key producers in the global SPAD Chips market?
6. What are the growth factors driving the market demand?

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