

Global Single-Photon Avalanche Diode Chips Market Growth 2026-2032

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Abstracts

The global Single-Photon Avalanche Diode Chips market size is predicted to grow from US\$ 245 million in 2025 to US\$ 676 million in 2032; it is expected to grow at a CAGR of 15.6% from 2026 to 2032.

Single-Photon Avalanche Diode Chips are high-sensitivity photodetector chips operated in Geiger mode, enabling avalanche multiplication triggered by the arrival of a single photon. They are typically manufactured using silicon or compound semiconductor platforms such as InGaAs/InP and are supplied as discrete single-pixel devices, linear arrays, area arrays, or CMOS-integrated SPAD sensor chips with on-chip quenching, readout, timing, counting, or gating circuits. Their core function is photon counting, time-of-flight ranging, time-correlated single-photon counting, and ultra-low-light imaging. Major applications include LiDAR, 3D sensing, industrial ranging, quantum communication, quantum computing, fluorescence lifetime imaging, medical imaging, astronomy, scientific instrumentation, and low-light surveillance. Key development and manufacturing capabilities are concentrated in Japan, Europe, the United States, China, and parts of South Korea and Taiwan. This scope covers SPAD chips and chip-level SPAD sensor ICs only, excluding single-photon detector modules, cameras, LiDAR systems, medical equipment, system integration services, and SiPM devices.

In 2025, global Single-Photon Avalanche Diode Chips production reached approximately 80 million to 105 million pieces, with mainstream chip-level FOB prices at around USD 2.50 to USD 3.10 per piece. This price range represents a shipment-weighted average for chips or chip-level SPAD sensor ICs; low-cost time-of-flight and distance-sensing chips accounted for most unit shipments, while high-pixel-count arrays, scientific-grade devices, and near-infrared-enhanced SPAD chips commanded much higher prices but represented a smaller share of total volume.

The global Single-Photon Avalanche Diode Chips market is moving from research-oriented and high-end instrumentation demand toward broader industrial commercialization. Demand is being driven by low-light imaging, automotive and robotics LiDAR, 3D sensing in smartphones and extended-reality devices, industrial distance measurement, quantum communication, and next-generation medical imaging. As CMOS integration, back-illuminated architectures, 3D stacking, on-chip time-to-digital conversion, and multi-pixel array readout mature, SPAD chips are evolving from low-volume specialty devices into scalable photon-counting and time-of-flight sensing components. For downstream customers, the value proposition is no longer limited to single-photon detection itself, but increasingly depends on photon detection efficiency, dark count rate, timing jitter, array scale, power consumption, package size, and algorithm-level integration.

The main market barriers remain fabrication yield, dark-noise control, pixel uniformity, package calibration, customer qualification cycles, and system-level integration complexity. Scientific, quantum, and medical applications require highly stable performance, while consumer electronics and automotive applications place stronger emphasis on cost, power, temperature stability, and long-term reliability. Future demand is expected to follow two parallel tracks: low-cost miniaturized SPAD arrays will continue to expand in consumer electronics, industrial sensing, and robotics, while high-dynamic-range, large-array, near-infrared-enhanced, and high-speed timing SPAD chips will capture higher value in automotive LiDAR, low-light machine vision, quantum information, and medical imaging. Overall, the market remains in a technology penetration phase, with stronger growth potential than conventional photodiodes and standard image sensors, although commercialization will remain closely tied to leading-customer adoption, wafer-process maturity, and terminal application ramp-up cycles.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Single-Photon Avalanche Diode 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 Single-Photon Avalanche Diode Chips.

This report presents a comprehensive overview, market shares, and growth opportunities of Single-Photon Avalanche Diode 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 Single-Photon Avalanche Diode Chips market?

What factors are driving Single-Photon Avalanche Diode Chips market growth, globally and by region?

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

How do Single-Photon Avalanche Diode Chips market opportunities vary by end market size?

How does Single-Photon Avalanche Diode Chips break out by Type, by Application?

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