

Global Single-Photon Avalanche Diode Array 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 Single-Photon Avalanche Diode Array Chips market size was valued at US\$ 216 million in 2025 and is forecast to a readjusted size of US\$ 584 million by 2032 with a CAGR of 14.6% during review period.

Single-Photon Avalanche Diode Array Chips are semiconductor photodetector chips formed by integrating multiple Geiger-mode single-photon avalanche diode pixels into linear or area-array architectures, enabling photon-arrival detection, spatial information capture, and time-resolved measurement under ultra-low-light conditions. Compared with single-pixel SPAD devices, SPAD array chips are better suited to imaging, depth sensing, and high-throughput photon-counting tasks. Their typical architecture includes a SPAD pixel array, quenching and recharge circuitry, on-chip readout, time-to-digital conversion, and supporting micro-optics and advanced packaging. Current commercialization is concentrated mainly in Japan, Europe, North America, and China, with major applications in automotive and industrial LiDAR, 3D depth sensing, low-light imaging, biophotonics, optical tomography, and quantum measurement.

Competitiveness is primarily defined by photon detection efficiency, dark count rate, timing jitter, crosstalk suppression, array scale, fill factor, and system integration capability.

In 2025, global production of Single-Photon Avalanche Diode Array Chips reached approximately 24 million to 32 million units. Based on the commercial product mix, mainstream FOB prices were generally in the range of USD 5.2 to USD 6.8 per unit, with high-volume industrial and consumer multizone ToF array devices typically priced below high-resolution automotive and premium imaging-oriented SPAD array chips.

Single-Photon Avalanche Diode Array Chips are moving from specialist scientific detectors and niche industrial components toward a foundational chip platform for intelligent sensing systems. Their strongest growth driver is not sensitivity alone, but the integration of single-photon-level detection, time resolution, and array-based spatial information on one chip, allowing end systems to obtain more reliable distance, depth, and low-light data across more challenging illumination conditions and wider operating ranges. The strongest commercial pull is currently coming from automotive and industrial LiDAR, 3D sensing in robotics and smart infrastructure, and emerging low-light monitoring and high-dynamic-range imaging systems. Sony is advancing stacked SPAD depth sensors for automotive use, ST and ams OSRAM continue to expand the application scope of multizone dToF devices, and Canon is accelerating high-pixel SPAD sensor development, indicating that SPAD array chips are moving from narrow specialist components toward broader system-level adoption.

That expansion, however, is not without constraints. As array size and resolution continue to increase, issues such as dark count noise, crosstalk, afterpulsing, readout complexity, thermal management, packaging consistency, and ambient-light interference become more significant. Customers are therefore placing greater emphasis on system-level coordination among the emitter, receiver, on-chip timing, algorithm compensation, and package design. Future competition is unlikely to be decided by chip specifications alone. It will increasingly shift toward platform capability, where success depends on balancing production yield, system performance, customer design-in, and application fit across high-value automotive, industrial, and advanced imaging markets.

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

Global Single-Photon Avalanche Diode Array 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 Single-Photon Avalanche Diode Array 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 Single-Photon Avalanche Diode Array 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 Single-Photon Avalanche Diode Array 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 Single-Photon Avalanche Diode Array 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., Shenzhen Fortsense Technology Co., Ltd., Suzhou Sophoton Technology Co., Ltd., Shenzhen PolarisIC Microelectronics Co., Ltd., Hangzhou Microparity Technology Co., Ltd., Sony Semiconductor Solutions Corporation, STMicroelectronics N.V., Hamamatsu Photonics K.K., Canon Inc., Micro Photon Devices S.r.l., etc.

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

Market Segmentation

Single-Photon Avalanche Diode Array 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

SPAD Sensor Arrays

SPAD Imaging Arrays

SPAD Timing Arrays

Others

Market segment by Spectral Band

Visible Band

Near Infrared Band

Broad Spectrum Band

Market segment by Array Format

Area Arrays

Linear Arrays

Small Format Arrays

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.

Shenzhen Fortsense Technology Co., Ltd.

Suzhou Sophoton Technology Co., Ltd.

Shenzhen PolarisIC Microelectronics Co., Ltd.

Hangzhou Microparity Technology Co., Ltd.

Sony Semiconductor Solutions Corporation

STMicroelectronics N.V.

Hamamatsu Photonics K.K.

Canon Inc.

Micro Photon Devices S.r.l.

Pi Imaging Technology SA

SolidVue

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 Single-Photon Avalanche Diode Array Chips product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single-Photon Avalanche Diode Array Chips, with price, sales quantity, revenue, and global market share of Single-Photon Avalanche Diode Array Chips from 2021 to 2026.

Chapter 3, the Single-Photon Avalanche Diode Array Chips competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single-Photon Avalanche Diode Array 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 Single-Photon Avalanche Diode Array 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 Single-Photon Avalanche Diode Array Chips.

Chapter 14 and 15, to describe Single-Photon Avalanche Diode Array Chips sales channel, distributors, customers, research findings and conclusion.

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