

Global Single-Photon Avalanche Diode Array Chips Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single-Photon Avalanche Diode Array Chips market size is expected to reach \$ 584 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

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 studies the global Single-Photon Avalanche Diode Array Chips production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-Photon Avalanche Diode Array 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 Single-Photon Avalanche Diode Array Chips that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single-Photon Avalanche Diode Array Chips total production and demand, 2021-2032, (Million Units)

Global Single-Photon Avalanche Diode Array Chips total production value, 2021-2032, (USD Million)

Global Single-Photon Avalanche Diode Array Chips production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Single-Photon Avalanche Diode Array Chips consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Single-Photon Avalanche Diode Array Chips domestic production, consumption, key domestic manufacturers and share

Global Single-Photon Avalanche Diode Array Chips production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Single-Photon Avalanche Diode Array Chips production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Single-Photon Avalanche Diode Array Chips production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Single-Photon Avalanche Diode Array 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., 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Single-Photon Avalanche Diode Array 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 Single-Photon Avalanche Diode Array Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-Photon Avalanche Diode Array Chips Market, Segmentation by Type:

SPAD Sensor Arrays

SPAD Imaging Arrays

SPAD Timing Arrays

Others

Global Single-Photon Avalanche Diode Array Chips Market, Segmentation by Spectral Band:

Visible Band

Near Infrared Band

Broad Spectrum Band

Global Single-Photon Avalanche Diode Array Chips Market, Segmentation by Array

Format:

Area Arrays

Linear Arrays

Small Format Arrays

Global Single-Photon Avalanche Diode Array Chips Market, Segmentation by Packaging:

Surface Mount

Chip Scale Package

Others

Global Single-Photon Avalanche Diode Array Chips Market, Segmentation by Application:

Automotive

Consumer

Industrial & Medical

Others

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Single-Photon Avalanche Diode Array Chips market?
2. What is the demand of the global Single-Photon Avalanche Diode Array Chips market?
3. What is the year over year growth of the global Single-Photon Avalanche Diode Array Chips market?
4. What is the production and production value of the global Single-Photon Avalanche Diode Array Chips market?
5. Who are the key producers in the global Single-Photon Avalanche Diode Array Chips market?
6. What are the growth factors driving the market demand?

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