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Global SPAD-SoC Chips Market Growth 2025-2031

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Abstracts

The global SPAD-SoC Chips market size is predicted to grow from US$ 677 million in 2025 to US$ 2480 million in 2031; it is expected to grow at a CAGR of 24.2% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

SPAD-SoC usually adopts 'back-illuminated 3D stacking' technology to realize SPAD detectors and logic circuits on two wafers respectively, so the structure is divided into two layers: the upper layer is the single-photon pixel array (SPAD Pixel); the lower layer is the readout circuit (Readout circuit), which includes key modules such as high-precision digital time sampling module (TDC), single-photon ranging engine (TCSPC), dedicated digital signal processor (DSP), and lidar control center (MCU). The structure of SPAD-SoC is a highly integrated chip design. It integrates multiple functional modules such as SPAD array, signal processing circuit, storage unit and control logic on a single chip, realizing the whole process from photon detection to digital signal output. In the highly integrated SPAD-SoC solution, the whole process is digitalized, from the photon entering the lidar and being converted into an electrical signal, to the subsequent data processing, and then to the presentation of the point cloud. The fully digital architecture is recognized as the next generation lidar architecture. The integrated sensing, computing and storage chip makes the data transmission between modules not limited by the bandwidth and delay between discrete chips, which improves the performance and stability of the system, reduces the cost and power consumption, and can provide more efficient and reliable solutions for applications such as LiDAR. It should be noted that the SPAD-SoC chip mentioned in this study is different from the SiPM chip using CMOS technology.

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United States market for SPAD-SoC Chips is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for SPAD-SoC Chips is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for SPAD-SoC Chips is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key SPAD-SoC Chips players cover Onsemi, Sony Semiconductor Solutions Corporation, Adaps Photonics, Sophoton, Evisionics, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “SPAD-SoC Chips Industry Forecast” looks at past sales and reviews total world SPAD-SoC Chips sales in 2024, providing a comprehensive analysis by region and market sector of projected SPAD-SoC Chips sales for 2025 through 2031. With SPAD-SoC Chips sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world SPAD-SoC Chips industry.

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

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

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

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Segmentation by Type:

Large SPADs

Small SPADs

Segmentation by Application:

LiDAR

Quantum Computing

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

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- 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.

- Onsemi
- Sony Semiconductor Solutions Corporation
- Adaps Photonics
- Sophoton

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Evisionics

Fortsense

Orbbec

RoboSense

Hesai Technology

Microparity

Xilight

PolarisIC

Huawei

Key Questions Addressed in this Report

What is the 10-year outlook for the global SPAD-SoC Chips market?
What factors are driving SPAD-SoC Chips market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do SPAD-SoC Chips market opportunities vary by end market size?
How does SPAD-SoC Chips break out by Type, by Application?

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