

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

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Abstracts

The global Single-Photon Avalanche Diode Chips market size is expected to reach \$ 678 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

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.

This report studies the global Single-Photon Avalanche Diode 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 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 Chips that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single-Photon Avalanche Diode Chips total production and demand, 2021-2032,

(Million Units)

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

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

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

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

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

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

Global Single-Photon Avalanche Diode 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 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 Single-Photon Avalanche Diode 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 Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Array Chips

Integrated Sensor Chips

Discrete and Single Pixel Chips

Others

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

Visible - NIR

SWIR

Others

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

Standalone Sensor

Hybrid Integrated

Fully Integrated (SoC)

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

Surface Mount

Chip Scale Package

Others

Global Single-Photon Avalanche Diode 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

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 Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Single-Photon Avalanche Diode Chips Introduction
- 1.2 World Single-Photon Avalanche Diode Chips Supply & Forecast
 - 1.2.1 World Single-Photon Avalanche Diode Chips Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Single-Photon Avalanche Diode Chips Production (2021-2032)
 - 1.2.3 World Single-Photon Avalanche Diode Chips Pricing Trends (2021-2032)
- 1.3 World Single-Photon Avalanche Diode Chips Production by Region (Based on Production Site)
 - 1.3.1 World Single-Photon Avalanche Diode Chips Production Value by Region (2021-2032)
 - 1.3.2 World Single-Photon Avalanche Diode Chips Production by Region (2021-2032)
 - 1.3.3 World Single-Photon Avalanche Diode Chips Average Price by Region (2021-2032)
 - 1.3.4 North America Single-Photon Avalanche Diode Chips Production (2021-2032)
 - 1.3.5 Europe Single-Photon Avalanche Diode Chips Production (2021-2032)
 - 1.3.6 China Single-Photon Avalanche Diode Chips Production (2021-2032)
 - 1.3.7 Japan Single-Photon Avalanche Diode Chips Production (2021-2032)
 - 1.3.8 South Korea Single-Photon Avalanche Diode Chips Production (2021-2032)
 - 1.3.9 Southeast Asia Single-Photon Avalanche Diode Chips Production (2021-2032)
 - 1.3.10 China Taiwan Single-Photon Avalanche Diode Chips Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Single-Photon Avalanche Diode Chips Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Single-Photon Avalanche Diode Chips Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Single-Photon Avalanche Diode Chips Demand (2021-2032)
- 2.2 World Single-Photon Avalanche Diode Chips Consumption by Region
 - 2.2.1 World Single-Photon Avalanche Diode Chips Consumption by Region (2021-2026)
 - 2.2.2 World Single-Photon Avalanche Diode Chips Consumption Forecast by Region (2027-2032)
- 2.3 United States Single-Photon Avalanche Diode Chips Consumption (2021-2032)
- 2.4 China Single-Photon Avalanche Diode Chips Consumption (2021-2032)

- 2.5 Europe Single-Photon Avalanche Diode Chips Consumption (2021-2032)
- 2.6 Japan Single-Photon Avalanche Diode Chips Consumption (2021-2032)
- 2.7 South Korea Single-Photon Avalanche Diode Chips Consumption (2021-2032)
- 2.8 ASEAN Single-Photon Avalanche Diode Chips Consumption (2021-2032)
- 2.9 India Single-Photon Avalanche Diode Chips Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Single-Photon Avalanche Diode Chips Production Value by Manufacturer (2021-2026)
- 3.2 World Single-Photon Avalanche Diode Chips Production by Manufacturer (2021-2026)
- 3.3 World Single-Photon Avalanche Diode Chips Average Price by Manufacturer (2021-2026)
- 3.4 Single-Photon Avalanche Diode Chips Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Single-Photon Avalanche Diode Chips Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Single-Photon Avalanche Diode Chips in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Single-Photon Avalanche Diode Chips in 2025
- 3.6 Single-Photon Avalanche Diode Chips Market: Overall Company Footprint Analysis
 - 3.6.1 Single-Photon Avalanche Diode Chips Market: Region Footprint
 - 3.6.2 Single-Photon Avalanche Diode Chips Market: Company Product Type Footprint
 - 3.6.3 Single-Photon Avalanche Diode Chips Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Single-Photon Avalanche Diode Chips Production Value Comparison
 - 4.1.1 United States VS China: Single-Photon Avalanche Diode Chips Production Value

Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Single-Photon Avalanche Diode Chips Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Single-Photon Avalanche Diode Chips Production Comparison

4.2.1 United States VS China: Single-Photon Avalanche Diode Chips Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Single-Photon Avalanche Diode Chips Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Single-Photon Avalanche Diode Chips Consumption Comparison

4.3.1 United States VS China: Single-Photon Avalanche Diode Chips Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Single-Photon Avalanche Diode Chips Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Single-Photon Avalanche Diode Chips Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Single-Photon Avalanche Diode Chips Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Single-Photon Avalanche Diode Chips Production Value (2021-2026)

4.4.3 United States Based Manufacturers Single-Photon Avalanche Diode Chips Production (2021-2026)

4.5 China Based Single-Photon Avalanche Diode Chips Manufacturers and Market Share

4.5.1 China Based Single-Photon Avalanche Diode Chips Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Single-Photon Avalanche Diode Chips Production Value (2021-2026)

4.5.3 China Based Manufacturers Single-Photon Avalanche Diode Chips Production (2021-2026)

4.6 Rest of World Based Single-Photon Avalanche Diode Chips Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Single-Photon Avalanche Diode Chips Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Single-Photon Avalanche Diode Chips Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Single-Photon Avalanche Diode Chips Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Single-Photon Avalanche Diode Chips Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Array Chips

5.2.2 Integrated Sensor Chips

5.2.3 Discrete and Single Pixel Chips

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Single-Photon Avalanche Diode Chips Production by Type (2021-2032)

5.3.2 World Single-Photon Avalanche Diode Chips Production Value by Type (2021-2032)

5.3.3 World Single-Photon Avalanche Diode Chips Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SPECTRAL RESPONSE

6.1 World Single-Photon Avalanche Diode Chips Market Size Overview by Spectral Response: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Spectral Response

6.2.1 Visible - NIR

6.2.2 SWIR

6.2.3 Others

6.3 Market Segment by Spectral Response

6.3.1 World Single-Photon Avalanche Diode Chips Production by Spectral Response (2021-2032)

6.3.2 World Single-Photon Avalanche Diode Chips Production Value by Spectral Response (2021-2032)

6.3.3 World Single-Photon Avalanche Diode Chips Average Price by Spectral Response (2021-2032)

7 MARKET ANALYSIS BY INTEGRATION

7.1 World Single-Photon Avalanche Diode Chips Market Size Overview by Integration: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Integration

7.2.1 Standalone Sensor

7.2.2 Hybrid Integrated

7.2.3 Fully Integrated (SoC)

7.3 Market Segment by Integration

7.3.1 World Single-Photon Avalanche Diode Chips Production by Integration
(2021-2032)

7.3.2 World Single-Photon Avalanche Diode Chips Production Value by Integration
(2021-2032)

7.3.3 World Single-Photon Avalanche Diode Chips Average Price by Integration
(2021-2032)

8 MARKET ANALYSIS BY PACKAGING

8.1 World Single-Photon Avalanche Diode Chips Market Size Overview by Packaging:
2021 VS 2025 VS 2032

8.2 Segment Introduction by Packaging

8.2.1 Surface Mount

8.2.2 Chip Scale Package

8.2.3 Others

8.3 Market Segment by Packaging

8.3.1 World Single-Photon Avalanche Diode Chips Production by Packaging
(2021-2032)

8.3.2 World Single-Photon Avalanche Diode Chips Production Value by Packaging
(2021-2032)

8.3.3 World Single-Photon Avalanche Diode Chips Average Price by Packaging
(2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Single-Photon Avalanche Diode Chips Market Size Overview by Application:
2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 Automotive

9.2.2 Consumer

9.2.3 Industrial & Medical

9.2.4 Others

9.3 Market Segment by Application

9.3.1 World Single-Photon Avalanche Diode Chips Production by Application
(2021-2032)

9.3.2 World Single-Photon Avalanche Diode Chips Production Value by Application

(2021-2032)

9.3.3 World Single-Photon Avalanche Diode Chips Average Price by Application

(2021-2032)

10 COMPANY PROFILES

10.1 Shenzhen Adaps Photonics Technology Co., Ltd.

10.1.1 Shenzhen Adaps Photonics Technology Co., Ltd. Details

10.1.2 Shenzhen Adaps Photonics Technology Co., Ltd. Major Business

10.1.3 Shenzhen Adaps Photonics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

10.1.4 Shenzhen Adaps Photonics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 Shenzhen Adaps Photonics Technology Co., Ltd. Recent Developments/Updates

10.1.6 Shenzhen Adaps Photonics Technology Co., Ltd. Competitive Strengths & Weaknesses

10.2 Fortsense Co., Ltd.

10.2.1 Fortsense Co., Ltd. Details

10.2.2 Fortsense Co., Ltd. Major Business

10.2.3 Fortsense Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

10.2.4 Fortsense Co., Ltd. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 Fortsense Co., Ltd. Recent Developments/Updates

10.2.6 Fortsense Co., Ltd. Competitive Strengths & Weaknesses

10.3 Suzhou Sophoton Technology Co., Ltd.

10.3.1 Suzhou Sophoton Technology Co., Ltd. Details

10.3.2 Suzhou Sophoton Technology Co., Ltd. Major Business

10.3.3 Suzhou Sophoton Technology Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

10.3.4 Suzhou Sophoton Technology Co., Ltd. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 Suzhou Sophoton Technology Co., Ltd. Recent Developments/Updates

10.3.6 Suzhou Sophoton Technology Co., Ltd. Competitive Strengths & Weaknesses

10.4 Shenzhen PolarisIC Microelectronics Co., Ltd.

10.4.1 Shenzhen PolarisIC Microelectronics Co., Ltd. Details

10.4.2 Shenzhen PolarisIC Microelectronics Co., Ltd. Major Business

10.4.3 Shenzhen PolarisIC Microelectronics Co., Ltd. Single-Photon Avalanche Diode

Chips Product and Services

10.4.4 Shenzhen PolarisIC Microelectronics Co., Ltd. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.4.5 Shenzhen PolarisIC Microelectronics Co., Ltd. Recent Developments/Updates

10.4.6 Shenzhen PolarisIC Microelectronics Co., Ltd. Competitive Strengths & Weaknesses

10.5 Hangzhou Microparity Technology Co., Ltd.

10.5.1 Hangzhou Microparity Technology Co., Ltd. Details

10.5.2 Hangzhou Microparity Technology Co., Ltd. Major Business

10.5.3 Hangzhou Microparity Technology Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

10.5.4 Hangzhou Microparity Technology Co., Ltd. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.5.5 Hangzhou Microparity Technology Co., Ltd. Recent Developments/Updates

10.5.6 Hangzhou Microparity Technology Co., Ltd. Competitive Strengths & Weaknesses

10.6 Nanjing Evisionics Microelectronics Technology Co., Ltd.

10.6.1 Nanjing Evisionics Microelectronics Technology Co., Ltd. Details

10.6.2 Nanjing Evisionics Microelectronics Technology Co., Ltd. Major Business

10.6.3 Nanjing Evisionics Microelectronics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

10.6.4 Nanjing Evisionics Microelectronics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.6.5 Nanjing Evisionics Microelectronics Technology Co., Ltd. Recent Developments/Updates

10.6.6 Nanjing Evisionics Microelectronics Technology Co., Ltd. Competitive Strengths & Weaknesses

10.7 Sony Semiconductor Solutions Corporation

10.7.1 Sony Semiconductor Solutions Corporation Details

10.7.2 Sony Semiconductor Solutions Corporation Major Business

10.7.3 Sony Semiconductor Solutions Corporation Single-Photon Avalanche Diode Chips Product and Services

10.7.4 Sony Semiconductor Solutions Corporation Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.7.5 Sony Semiconductor Solutions Corporation Recent Developments/Updates

10.7.6 Sony Semiconductor Solutions Corporation Competitive Strengths & Weaknesses

10.8 Hamamatsu Photonics K.K.

- 10.8.1 Hamamatsu Photonics K.K. Details
- 10.8.2 Hamamatsu Photonics K.K. Major Business
- 10.8.3 Hamamatsu Photonics K.K. Single-Photon Avalanche Diode Chips Product and Services
- 10.8.4 Hamamatsu Photonics K.K. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.8.5 Hamamatsu Photonics K.K. Recent Developments/Updates
- 10.8.6 Hamamatsu Photonics K.K. Competitive Strengths & Weaknesses
- 10.9 Canon Inc.
- 10.9.1 Canon Inc. Details
- 10.9.2 Canon Inc. Major Business
- 10.9.3 Canon Inc. Single-Photon Avalanche Diode Chips Product and Services
- 10.9.4 Canon Inc. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.9.5 Canon Inc. Recent Developments/Updates
- 10.9.6 Canon Inc. Competitive Strengths & Weaknesses
- 10.10 STMicroelectronics N.V.
- 10.10.1 STMicroelectronics N.V. Details
- 10.10.2 STMicroelectronics N.V. Major Business
- 10.10.3 STMicroelectronics N.V. Single-Photon Avalanche Diode Chips Product and Services
- 10.10.4 STMicroelectronics N.V. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.10.5 STMicroelectronics N.V. Recent Developments/Updates
- 10.10.6 STMicroelectronics N.V. Competitive Strengths & Weaknesses
- 10.11 ams-OSRAM AG
- 10.11.1 ams-OSRAM AG Details
- 10.11.2 ams-OSRAM AG Major Business
- 10.11.3 ams-OSRAM AG Single-Photon Avalanche Diode Chips Product and Services
- 10.11.4 ams-OSRAM AG Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.11.5 ams-OSRAM AG Recent Developments/Updates
- 10.11.6 ams-OSRAM AG Competitive Strengths & Weaknesses
- 10.12 onsemi
- 10.12.1 onsemi Details
- 10.12.2 onsemi Major Business
- 10.12.3 onsemi Single-Photon Avalanche Diode Chips Product and Services
- 10.12.4 onsemi Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 10.12.5 onsemi Recent Developments/Updates
- 10.12.6 onsemi Competitive Strengths & Weaknesses
- 10.13 Excelitas Technologies Corp.
 - 10.13.1 Excelitas Technologies Corp. Details
 - 10.13.2 Excelitas Technologies Corp. Major Business
 - 10.13.3 Excelitas Technologies Corp. Single-Photon Avalanche Diode Chips Product and Services
 - 10.13.4 Excelitas Technologies Corp. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.13.5 Excelitas Technologies Corp. Recent Developments/Updates
 - 10.13.6 Excelitas Technologies Corp. Competitive Strengths & Weaknesses
- 10.14 SAAZ Micro Inc.
 - 10.14.1 SAAZ Micro Inc. Details
 - 10.14.2 SAAZ Micro Inc. Major Business
 - 10.14.3 SAAZ Micro Inc. Single-Photon Avalanche Diode Chips Product and Services
 - 10.14.4 SAAZ Micro Inc. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.14.5 SAAZ Micro Inc. Recent Developments/Updates
 - 10.14.6 SAAZ Micro Inc. Competitive Strengths & Weaknesses
- 10.15 Micro Photon Devices S.r.l.
 - 10.15.1 Micro Photon Devices S.r.l. Details
 - 10.15.2 Micro Photon Devices S.r.l. Major Business
 - 10.15.3 Micro Photon Devices S.r.l. Single-Photon Avalanche Diode Chips Product and Services
 - 10.15.4 Micro Photon Devices S.r.l. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.15.5 Micro Photon Devices S.r.l. Recent Developments/Updates
 - 10.15.6 Micro Photon Devices S.r.l. Competitive Strengths & Weaknesses
- 10.16 LASER COMPONENTS GmbH
 - 10.16.1 LASER COMPONENTS GmbH Details
 - 10.16.2 LASER COMPONENTS GmbH Major Business
 - 10.16.3 LASER COMPONENTS GmbH Single-Photon Avalanche Diode Chips Product and Services
 - 10.16.4 LASER COMPONENTS GmbH Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 10.16.5 LASER COMPONENTS GmbH Recent Developments/Updates
 - 10.16.6 LASER COMPONENTS GmbH Competitive Strengths & Weaknesses
- 10.17 Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company)
 - 10.17.1 Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS

Company) Details

10.17.2 Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS

Company) Major Business

10.17.3 Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS

Company) Single-Photon Avalanche Diode Chips Product and Services

10.17.4 Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS

Company) Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.17.5 Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS

Company) Recent Developments/Updates

10.17.6 Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS

Company) Competitive Strengths & Weaknesses

10.18 Singular Photonics Ltd.

10.18.1 Singular Photonics Ltd. Details

10.18.2 Singular Photonics Ltd. Major Business

10.18.3 Singular Photonics Ltd. Single-Photon Avalanche Diode Chips Product and Services

10.18.4 Singular Photonics Ltd. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.18.5 Singular Photonics Ltd. Recent Developments/Updates

10.18.6 Singular Photonics Ltd. Competitive Strengths & Weaknesses

10.19 Photon Force Ltd.

10.19.1 Photon Force Ltd. Details

10.19.2 Photon Force Ltd. Major Business

10.19.3 Photon Force Ltd. Single-Photon Avalanche Diode Chips Product and Services

10.19.4 Photon Force Ltd. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.19.5 Photon Force Ltd. Recent Developments/Updates

10.19.6 Photon Force Ltd. Competitive Strengths & Weaknesses

10.20 SOLiDVUE Inc.

10.20.1 SOLiDVUE Inc. Details

10.20.2 SOLiDVUE Inc. Major Business

10.20.3 SOLiDVUE Inc. Single-Photon Avalanche Diode Chips Product and Services

10.20.4 SOLiDVUE Inc. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.20.5 SOLiDVUE Inc. Recent Developments/Updates

10.20.6 SOLiDVUE Inc. Competitive Strengths & Weaknesses

10.21 Artilux, Inc.

- 10.21.1 Artilux, Inc. Details
- 10.21.2 Artilux, Inc. Major Business
- 10.21.3 Artilux, Inc. Single-Photon Avalanche Diode Chips Product and Services
- 10.21.4 Artilux, Inc. Single-Photon Avalanche Diode Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 10.21.5 Artilux, Inc. Recent Developments/Updates
- 10.21.6 Artilux, Inc. Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 Single-Photon Avalanche Diode Chips Industry Chain
- 11.2 Single-Photon Avalanche Diode Chips Upstream Analysis
 - 11.2.1 Single-Photon Avalanche Diode Chips Core Raw Materials
 - 11.2.2 Main Manufacturers of Single-Photon Avalanche Diode Chips Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Single-Photon Avalanche Diode Chips Production Mode
- 11.6 Single-Photon Avalanche Diode Chips Procurement Model
- 11.7 Single-Photon Avalanche Diode Chips Industry Sales Model and Sales Channels
 - 11.7.1 Single-Photon Avalanche Diode Chips Sales Model
 - 11.7.2 Single-Photon Avalanche Diode Chips Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

- 13.1 Methodology
- 13.2 Research Process and Data Source
- 13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Single-Photon Avalanche Diode Chips Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Single-Photon Avalanche Diode Chips Production Value by Region (2021-2026) & (USD Million)

Table 3. World Single-Photon Avalanche Diode Chips Production Value by Region (2027-2032) & (USD Million)

Table 4. World Single-Photon Avalanche Diode Chips Production Value Market Share by Region (2021-2026)

Table 5. World Single-Photon Avalanche Diode Chips Production Value Market Share by Region (2027-2032)

Table 6. World Single-Photon Avalanche Diode Chips Production by Region (2021-2026) & (Million Units)

Table 7. World Single-Photon Avalanche Diode Chips Production by Region (2027-2032) & (Million Units)

Table 8. World Single-Photon Avalanche Diode Chips Production Market Share by Region (2021-2026)

Table 9. World Single-Photon Avalanche Diode Chips Production Market Share by Region (2027-2032)

Table 10. World Single-Photon Avalanche Diode Chips Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Single-Photon Avalanche Diode Chips Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Single-Photon Avalanche Diode Chips Major Market Trends

Table 13. World Single-Photon Avalanche Diode Chips Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World Single-Photon Avalanche Diode Chips Consumption by Region (2021-2026) & (Million Units)

Table 15. World Single-Photon Avalanche Diode Chips Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World Single-Photon Avalanche Diode Chips Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Single-Photon Avalanche Diode Chips Producers in 2025

Table 18. World Single-Photon Avalanche Diode Chips Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key Single-Photon Avalanche Diode Chips Producers in 2025

Table 20. World Single-Photon Avalanche Diode Chips Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Single-Photon Avalanche Diode Chips Company Evaluation Quadrant

Table 22. World Single-Photon Avalanche Diode Chips Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Single-Photon Avalanche Diode Chips Production Site of Key Manufacturer

Table 24. Single-Photon Avalanche Diode Chips Market: Company Product Type Footprint

Table 25. Single-Photon Avalanche Diode Chips Market: Company Product Application Footprint

Table 26. Single-Photon Avalanche Diode Chips Competitive Factors

Table 27. Single-Photon Avalanche Diode Chips New Entrant and Capacity Expansion Plans

Table 28. Single-Photon Avalanche Diode Chips Mergers & Acquisitions Activity

Table 29. United States VS China Single-Photon Avalanche Diode Chips Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Single-Photon Avalanche Diode Chips Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China Single-Photon Avalanche Diode Chips Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based Single-Photon Avalanche Diode Chips Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Single-Photon Avalanche Diode Chips Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Single-Photon Avalanche Diode Chips Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Single-Photon Avalanche Diode Chips Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers Single-Photon Avalanche Diode Chips Production Market Share (2021-2026)

Table 37. China Based Single-Photon Avalanche Diode Chips Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Single-Photon Avalanche Diode Chips Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Single-Photon Avalanche Diode Chips Production Value Market Share (2021-2026)

- Table 40. China Based Manufacturers Single-Photon Avalanche Diode Chips Production, (2021-2026) & (Million Units)
- Table 41. China Based Manufacturers Single-Photon Avalanche Diode Chips Production Market Share (2021-2026)
- Table 42. Rest of World Based Single-Photon Avalanche Diode Chips Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Single-Photon Avalanche Diode Chips Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Single-Photon Avalanche Diode Chips Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Single-Photon Avalanche Diode Chips Production, (2021-2026) & (Million Units)
- Table 46. Rest of World Based Manufacturers Single-Photon Avalanche Diode Chips Production Market Share (2021-2026)
- Table 47. World Single-Photon Avalanche Diode Chips Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 48. World Single-Photon Avalanche Diode Chips Production by Type (2021-2026) & (Million Units)
- Table 49. World Single-Photon Avalanche Diode Chips Production by Type (2027-2032) & (Million Units)
- Table 50. World Single-Photon Avalanche Diode Chips Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Single-Photon Avalanche Diode Chips Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Single-Photon Avalanche Diode Chips Average Price by Type (2021-2026) & (US\$/Unit)
- Table 53. World Single-Photon Avalanche Diode Chips Average Price by Type (2027-2032) & (US\$/Unit)
- Table 54. World Single-Photon Avalanche Diode Chips Production Value by Spectral Response, (USD Million), 2021 & 2025 & 2032
- Table 55. World Single-Photon Avalanche Diode Chips Production by Spectral Response (2021-2026) & (Million Units)
- Table 56. World Single-Photon Avalanche Diode Chips Production by Spectral Response (2027-2032) & (Million Units)
- Table 57. World Single-Photon Avalanche Diode Chips Production Value by Spectral Response (2021-2026) & (USD Million)
- Table 58. World Single-Photon Avalanche Diode Chips Production Value by Spectral Response (2027-2032) & (USD Million)
- Table 59. World Single-Photon Avalanche Diode Chips Average Price by Spectral

Response (2021-2026) & (US\$/Unit)

Table 60. World Single-Photon Avalanche Diode Chips Average Price by Spectral Response (2027-2032) & (US\$/Unit)

Table 61. World Single-Photon Avalanche Diode Chips Production Value by Integration, (USD Million), 2021 & 2025 & 2032

Table 62. World Single-Photon Avalanche Diode Chips Production by Integration (2021-2026) & (Million Units)

Table 63. World Single-Photon Avalanche Diode Chips Production by Integration (2027-2032) & (Million Units)

Table 64. World Single-Photon Avalanche Diode Chips Production Value by Integration (2021-2026) & (USD Million)

Table 65. World Single-Photon Avalanche Diode Chips Production Value by Integration (2027-2032) & (USD Million)

Table 66. World Single-Photon Avalanche Diode Chips Average Price by Integration (2021-2026) & (US\$/Unit)

Table 67. World Single-Photon Avalanche Diode Chips Average Price by Integration (2027-2032) & (US\$/Unit)

Table 68. World Single-Photon Avalanche Diode Chips Production Value by Packaging, (USD Million), 2021 & 2025 & 2032

Table 69. World Single-Photon Avalanche Diode Chips Production by Packaging (2021-2026) & (Million Units)

Table 70. World Single-Photon Avalanche Diode Chips Production by Packaging (2027-2032) & (Million Units)

Table 71. World Single-Photon Avalanche Diode Chips Production Value by Packaging (2021-2026) & (USD Million)

Table 72. World Single-Photon Avalanche Diode Chips Production Value by Packaging (2027-2032) & (USD Million)

Table 73. World Single-Photon Avalanche Diode Chips Average Price by Packaging (2021-2026) & (US\$/Unit)

Table 74. World Single-Photon Avalanche Diode Chips Average Price by Packaging (2027-2032) & (US\$/Unit)

Table 75. World Single-Photon Avalanche Diode Chips Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Single-Photon Avalanche Diode Chips Production by Application (2021-2026) & (Million Units)

Table 77. World Single-Photon Avalanche Diode Chips Production by Application (2027-2032) & (Million Units)

Table 78. World Single-Photon Avalanche Diode Chips Production Value by Application (2021-2026) & (USD Million)

Table 79. World Single-Photon Avalanche Diode Chips Production Value by Application (2027-2032) & (USD Million)

Table 80. World Single-Photon Avalanche Diode Chips Average Price by Application (2021-2026) & (US\$/Unit)

Table 81. World Single-Photon Avalanche Diode Chips Average Price by Application (2027-2032) & (US\$/Unit)

Table 82. Shenzhen Adaps Photonics Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 83. Shenzhen Adaps Photonics Technology Co., Ltd. Major Business

Table 84. Shenzhen Adaps Photonics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

Table 85. Shenzhen Adaps Photonics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. Shenzhen Adaps Photonics Technology Co., Ltd. Recent Developments/Updates

Table 87. Shenzhen Adaps Photonics Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 88. Fortsense Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 89. Fortsense Co., Ltd. Major Business

Table 90. Fortsense Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

Table 91. Fortsense Co., Ltd. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Fortsense Co., Ltd. Recent Developments/Updates

Table 93. Fortsense Co., Ltd. Competitive Strengths & Weaknesses

Table 94. Suzhou Sophoton Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 95. Suzhou Sophoton Technology Co., Ltd. Major Business

Table 96. Suzhou Sophoton Technology Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

Table 97. Suzhou Sophoton Technology Co., Ltd. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Suzhou Sophoton Technology Co., Ltd. Recent Developments/Updates

Table 99. Suzhou Sophoton Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 100. Shenzhen PolarisIC Microelectronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 101. Shenzhen PolarisIC Microelectronics Co., Ltd. Major Business

Table 102. Shenzhen PolarisIC Microelectronics Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

Table 103. Shenzhen PolarisIC Microelectronics Co., Ltd. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Shenzhen PolarisIC Microelectronics Co., Ltd. Recent Developments/Updates

Table 105. Shenzhen PolarisIC Microelectronics Co., Ltd. Competitive Strengths & Weaknesses

Table 106. Hangzhou Microparity Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 107. Hangzhou Microparity Technology Co., Ltd. Major Business

Table 108. Hangzhou Microparity Technology Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

Table 109. Hangzhou Microparity Technology Co., Ltd. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 110. Hangzhou Microparity Technology Co., Ltd. Recent Developments/Updates

Table 111. Hangzhou Microparity Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 112. Nanjing Evisionics Microelectronics Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 113. Nanjing Evisionics Microelectronics Technology Co., Ltd. Major Business

Table 114. Nanjing Evisionics Microelectronics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

Table 115. Nanjing Evisionics Microelectronics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 116. Nanjing Evisionics Microelectronics Technology Co., Ltd. Recent Developments/Updates

Table 117. Nanjing Evisionics Microelectronics Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 118. Sony Semiconductor Solutions Corporation Basic Information, Manufacturing Base and Competitors

Table 119. Sony Semiconductor Solutions Corporation Major Business

Table 120. Sony Semiconductor Solutions Corporation Single-Photon Avalanche Diode Chips Product and Services

Table 121. Sony Semiconductor Solutions Corporation Single-Photon Avalanche Diode

Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 122. Sony Semiconductor Solutions Corporation Recent Developments/Updates

Table 123. Sony Semiconductor Solutions Corporation Competitive Strengths & Weaknesses

Table 124. Hamamatsu Photonics K.K. Basic Information, Manufacturing Base and Competitors

Table 125. Hamamatsu Photonics K.K. Major Business

Table 126. Hamamatsu Photonics K.K. Single-Photon Avalanche Diode Chips Product and Services

Table 127. Hamamatsu Photonics K.K. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. Hamamatsu Photonics K.K. Recent Developments/Updates

Table 129. Hamamatsu Photonics K.K. Competitive Strengths & Weaknesses

Table 130. Canon Inc. Basic Information, Manufacturing Base and Competitors

Table 131. Canon Inc. Major Business

Table 132. Canon Inc. Single-Photon Avalanche Diode Chips Product and Services

Table 133. Canon Inc. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 134. Canon Inc. Recent Developments/Updates

Table 135. Canon Inc. Competitive Strengths & Weaknesses

Table 136. STMicroelectronics N.V. Basic Information, Manufacturing Base and Competitors

Table 137. STMicroelectronics N.V. Major Business

Table 138. STMicroelectronics N.V. Single-Photon Avalanche Diode Chips Product and Services

Table 139. STMicroelectronics N.V. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 140. STMicroelectronics N.V. Recent Developments/Updates

Table 141. STMicroelectronics N.V. Competitive Strengths & Weaknesses

Table 142. ams-OSRAM AG Basic Information, Manufacturing Base and Competitors

Table 143. ams-OSRAM AG Major Business

Table 144. ams-OSRAM AG Single-Photon Avalanche Diode Chips Product and Services

Table 145. ams-OSRAM AG Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 146. ams-OSRAM AG Recent Developments/Updates

Table 147. ams-OSRAM AG Competitive Strengths & Weaknesses

Table 148. onsemi Basic Information, Manufacturing Base and Competitors

Table 149. onsemi Major Business

Table 150. onsemi Single-Photon Avalanche Diode Chips Product and Services

Table 151. onsemi Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 152. onsemi Recent Developments/Updates

Table 153. onsemi Competitive Strengths & Weaknesses

Table 154. Excelitas Technologies Corp. Basic Information, Manufacturing Base and Competitors

Table 155. Excelitas Technologies Corp. Major Business

Table 156. Excelitas Technologies Corp. Single-Photon Avalanche Diode Chips Product and Services

Table 157. Excelitas Technologies Corp. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 158. Excelitas Technologies Corp. Recent Developments/Updates

Table 159. Excelitas Technologies Corp. Competitive Strengths & Weaknesses

Table 160. SAAZ Micro Inc. Basic Information, Manufacturing Base and Competitors

Table 161. SAAZ Micro Inc. Major Business

Table 162. SAAZ Micro Inc. Single-Photon Avalanche Diode Chips Product and Services

Table 163. SAAZ Micro Inc. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 164. SAAZ Micro Inc. Recent Developments/Updates

Table 165. SAAZ Micro Inc. Competitive Strengths & Weaknesses

Table 166. Micro Photon Devices S.r.l. Basic Information, Manufacturing Base and Competitors

Table 167. Micro Photon Devices S.r.l. Major Business

Table 168. Micro Photon Devices S.r.l. Single-Photon Avalanche Diode Chips Product and Services

Table 169. Micro Photon Devices S.r.l. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 170. Micro Photon Devices S.r.l. Recent Developments/Updates

- Table 171. Micro Photon Devices S.r.l. Competitive Strengths & Weaknesses
- Table 172. LASER COMPONENTS GmbH Basic Information, Manufacturing Base and Competitors
- Table 173. LASER COMPONENTS GmbH Major Business
- Table 174. LASER COMPONENTS GmbH Single-Photon Avalanche Diode Chips Product and Services
- Table 175. LASER COMPONENTS GmbH Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 176. LASER COMPONENTS GmbH Recent Developments/Updates
- Table 177. LASER COMPONENTS GmbH Competitive Strengths & Weaknesses
- Table 178. Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Basic Information, Manufacturing Base and Competitors
- Table 179. Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Major Business
- Table 180. Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Single-Photon Avalanche Diode Chips Product and Services
- Table 181. Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 182. Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Recent Developments/Updates
- Table 183. Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Competitive Strengths & Weaknesses
- Table 184. Singular Photonics Ltd. Basic Information, Manufacturing Base and Competitors
- Table 185. Singular Photonics Ltd. Major Business
- Table 186. Singular Photonics Ltd. Single-Photon Avalanche Diode Chips Product and Services
- Table 187. Singular Photonics Ltd. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 188. Singular Photonics Ltd. Recent Developments/Updates
- Table 189. Singular Photonics Ltd. Competitive Strengths & Weaknesses
- Table 190. Photon Force Ltd. Basic Information, Manufacturing Base and Competitors
- Table 191. Photon Force Ltd. Major Business
- Table 192. Photon Force Ltd. Single-Photon Avalanche Diode Chips Product and Services

Table 193. Photon Force Ltd. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 194. Photon Force Ltd. Recent Developments/Updates

Table 195. Photon Force Ltd. Competitive Strengths & Weaknesses

Table 196. SOLiDVUE Inc. Basic Information, Manufacturing Base and Competitors

Table 197. SOLiDVUE Inc. Major Business

Table 198. SOLiDVUE Inc. Single-Photon Avalanche Diode Chips Product and Services

Table 199. SOLiDVUE Inc. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 200. SOLiDVUE Inc. Recent Developments/Updates

Table 201. SOLiDVUE Inc. Competitive Strengths & Weaknesses

Table 202. Artilux, Inc. Basic Information, Manufacturing Base and Competitors

Table 203. Artilux, Inc. Major Business

Table 204. Artilux, Inc. Single-Photon Avalanche Diode Chips Product and Services

Table 205. Artilux, Inc. Single-Photon Avalanche Diode Chips Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 206. Artilux, Inc. Recent Developments/Updates

Table 207. Artilux, Inc. Competitive Strengths & Weaknesses

Table 208. Global Key Players of Single-Photon Avalanche Diode Chips Upstream (Raw Materials)

Table 209. Global Single-Photon Avalanche Diode Chips Typical Customers

Table 210. Single-Photon Avalanche Diode Chips Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Single-Photon Avalanche Diode Chips Picture
- Figure 2. World Single-Photon Avalanche Diode Chips Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Single-Photon Avalanche Diode Chips Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Single-Photon Avalanche Diode Chips Production (2021-2032) & (Million Units)
- Figure 5. World Single-Photon Avalanche Diode Chips Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Single-Photon Avalanche Diode Chips Production Value Market Share by Region (2021-2032)
- Figure 7. World Single-Photon Avalanche Diode Chips Production Market Share by Region (2021-2032)
- Figure 8. North America Single-Photon Avalanche Diode Chips Production (2021-2032) & (Million Units)
- Figure 9. Europe Single-Photon Avalanche Diode Chips Production (2021-2032) & (Million Units)
- Figure 10. China Single-Photon Avalanche Diode Chips Production (2021-2032) & (Million Units)
- Figure 11. Japan Single-Photon Avalanche Diode Chips Production (2021-2032) & (Million Units)
- Figure 12. South Korea Single-Photon Avalanche Diode Chips Production (2021-2032) & (Million Units)
- Figure 13. Southeast Asia Single-Photon Avalanche Diode Chips Production (2021-2032) & (Million Units)
- Figure 14. China Taiwan Single-Photon Avalanche Diode Chips Production (2021-2032) & (Million Units)
- Figure 15. Single-Photon Avalanche Diode Chips Market Drivers
- Figure 16. Factors Affecting Demand
- Figure 17. World Single-Photon Avalanche Diode Chips Consumption (2021-2032) & (Million Units)
- Figure 18. World Single-Photon Avalanche Diode Chips Consumption Market Share by Region (2021-2032)
- Figure 19. United States Single-Photon Avalanche Diode Chips Consumption (2021-2032) & (Million Units)

Figure 20. China Single-Photon Avalanche Diode Chips Consumption (2021-2032) & (Million Units)

Figure 21. Europe Single-Photon Avalanche Diode Chips Consumption (2021-2032) & (Million Units)

Figure 22. Japan Single-Photon Avalanche Diode Chips Consumption (2021-2032) & (Million Units)

Figure 23. South Korea Single-Photon Avalanche Diode Chips Consumption (2021-2032) & (Million Units)

Figure 24. ASEAN Single-Photon Avalanche Diode Chips Consumption (2021-2032) & (Million Units)

Figure 25. India Single-Photon Avalanche Diode Chips Consumption (2021-2032) & (Million Units)

Figure 26. Producer Shipments of Single-Photon Avalanche Diode Chips by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Single-Photon Avalanche Diode Chips Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Single-Photon Avalanche Diode Chips Markets in 2025

Figure 29. United States VS China: Single-Photon Avalanche Diode Chips Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Single-Photon Avalanche Diode Chips Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Single-Photon Avalanche Diode Chips Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Single-Photon Avalanche Diode Chips Production Market Share 2025

Figure 33. China Based Manufacturers Single-Photon Avalanche Diode Chips Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Single-Photon Avalanche Diode Chips Production Market Share 2025

Figure 35. World Single-Photon Avalanche Diode Chips Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Single-Photon Avalanche Diode Chips Production Value Market Share by Type in 2025

Figure 37. Array Chips

Figure 38. Integrated Sensor Chips

Figure 39. Discrete and Single Pixel Chips

Figure 40. Others

Figure 41. World Single-Photon Avalanche Diode Chips Production Market Share by

Type (2021-2032)

Figure 42. World Single-Photon Avalanche Diode Chips Production Value Market Share by Type (2021-2032)

Figure 43. World Single-Photon Avalanche Diode Chips Average Price by Type (2021-2032) & (US\$/Unit)

Figure 44. World Single-Photon Avalanche Diode Chips Production Value by Spectral Response, (USD Million), 2021 & 2025 & 2032

Figure 45. World Single-Photon Avalanche Diode Chips Production Value Market Share by Spectral Response in 2025

Figure 46. Visible - NIR

Figure 47. SWIR

Figure 48. Others

Figure 49. World Single-Photon Avalanche Diode Chips Production Market Share by Spectral Response (2021-2032)

Figure 50. World Single-Photon Avalanche Diode Chips Production Value Market Share by Spectral Response (2021-2032)

Figure 51. World Single-Photon Avalanche Diode Chips Average Price by Spectral Response (2021-2032) & (US\$/Unit)

Figure 52. World Single-Photon Avalanche Diode Chips Production Value by Integration, (USD Million), 2021 & 2025 & 2032

Figure 53. World Single-Photon Avalanche Diode Chips Production Value Market Share by Integration in 2025

Figure 54. Standalone Sensor

Figure 55. Hybrid Integrated

Figure 56. Fully Integrated (SoC)

Figure 57. World Single-Photon Avalanche Diode Chips Production Market Share by Integration (2021-2032)

Figure 58. World Single-Photon Avalanche Diode Chips Production Value Market Share by Integration (2021-2032)

Figure 59. World Single-Photon Avalanche Diode Chips Average Price by Integration (2021-2032) & (US\$/Unit)

Figure 60. World Single-Photon Avalanche Diode Chips Production Value by Packaging, (USD Million), 2021 & 2025 & 2032

Figure 61. World Single-Photon Avalanche Diode Chips Production Value Market Share by Packaging in 2025

Figure 62. Surface Mount

Figure 63. Chip Scale Package

Figure 64. Others

Figure 65. World Single-Photon Avalanche Diode Chips Production Market Share by

Packaging (2021-2032)

Figure 66. World Single-Photon Avalanche Diode Chips Production Value Market Share by Packaging (2021-2032)

Figure 67. World Single-Photon Avalanche Diode Chips Average Price by Packaging (2021-2032) & (US\$/Unit)

Figure 68. World Single-Photon Avalanche Diode Chips Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 69. World Single-Photon Avalanche Diode Chips Production Value Market Share by Application in 2025

Figure 70. Automotive

Figure 71. Consumer

Figure 72. Industrial & Medical

Figure 73. Others

Figure 74. World Single-Photon Avalanche Diode Chips Production Market Share by Application (2021-2032)

Figure 75. World Single-Photon Avalanche Diode Chips Production Value Market Share by Application (2021-2032)

Figure 76. World Single-Photon Avalanche Diode Chips Average Price by Application (2021-2032) & (US\$/Unit)

Figure 77. Single-Photon Avalanche Diode Chips Industry Chain

Figure 78. Single-Photon Avalanche Diode Chips Procurement Model

Figure 79. Single-Photon Avalanche Diode Chips Sales Model

Figure 80. Single-Photon Avalanche Diode Chips Sales Channels, Direct Sales, and Distribution

Figure 81. Methodology

Figure 82. Research Process and Data Source

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