

# Global Single-Photon Avalanche Diode Chips Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G9805A19F401EN.html>

Date: June 2026

Pages: 164

Price: US\$ 3,480.00 (Single User License)

ID: G9805A19F401EN

## Abstracts

According to our (Global Info Research) latest study, the global Single-Photon Avalanche Diode Chips market size was valued at US\$ 257 million in 2025 and is forecast to a readjusted size of US\$ 678 million by 2032 with a CAGR of 14.6% during review period.

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 is a detailed and comprehensive analysis for global Single-Photon Avalanche Diode 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 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 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 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 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 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 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., 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.

## Market Segmentation

Single-Photon Avalanche Diode 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

Array Chips

Integrated Sensor Chips

Discrete and Single Pixel Chips

Others

### Market segment by Spectral Response

Visible - NIR

SWIR

Others

### Market segment by Integration

Standalone Sensor

Hybrid Integrated

Fully Integrated (SoC)

### 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.

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.

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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.

Artilux, Inc.

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 Chips product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Single-Photon Avalanche Diode 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 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 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 Chips.

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

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Single-Photon Avalanche Diode Chips Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Array Chips

1.3.3 Integrated Sensor Chips

1.3.4 Discrete and Single Pixel Chips

1.3.5 Others

1.4 Market Analysis by Spectral Response

1.4.1 Overview: Global Single-Photon Avalanche Diode Chips Consumption Value by Spectral Response: 2021 Versus 2025 Versus 2032

1.4.2 Visible - NIR

1.4.3 SWIR

1.4.4 Others

1.5 Market Analysis by Integration

1.5.1 Overview: Global Single-Photon Avalanche Diode Chips Consumption Value by Integration: 2021 Versus 2025 Versus 2032

1.5.2 Standalone Sensor

1.5.3 Hybrid Integrated

1.5.4 Fully Integrated (SoC)

1.6 Market Analysis by Packaging

1.6.1 Overview: Global Single-Photon Avalanche Diode Chips Consumption Value by Packaging: 2021 Versus 2025 Versus 2032

1.6.2 Surface Mount

1.6.3 Chip Scale Package

1.6.4 Others

1.7 Market Analysis by Application

1.7.1 Overview: Global Single-Photon Avalanche Diode Chips Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 Automotive

1.7.3 Consumer

1.7.4 Industrial & Medical

1.7.5 Others

1.8 Global Single-Photon Avalanche Diode Chips Market Size & Forecast

- 1.8.1 Global Single-Photon Avalanche Diode Chips Consumption Value (2021 & 2025 & 2032)
- 1.8.2 Global Single-Photon Avalanche Diode Chips Sales Quantity (2021-2032)
- 1.8.3 Global Single-Photon Avalanche Diode Chips Average Price (2021-2032)

## **2 MANUFACTURERS PROFILES**

### 2.1 Shenzhen Adaps Photonics Technology Co., Ltd.

- 2.1.1 Shenzhen Adaps Photonics Technology Co., Ltd. Details
- 2.1.2 Shenzhen Adaps Photonics Technology Co., Ltd. Major Business
- 2.1.3 Shenzhen Adaps Photonics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services
- 2.1.4 Shenzhen Adaps Photonics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Shenzhen Adaps Photonics Technology Co., Ltd. Recent Developments/Updates

### 2.2 Fortsense Co., Ltd.

- 2.2.1 Fortsense Co., Ltd. Details
- 2.2.2 Fortsense Co., Ltd. Major Business
- 2.2.3 Fortsense Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services
- 2.2.4 Fortsense Co., Ltd. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 Fortsense Co., Ltd. Recent Developments/Updates

### 2.3 Suzhou Sophoton Technology Co., Ltd.

- 2.3.1 Suzhou Sophoton Technology Co., Ltd. Details
- 2.3.2 Suzhou Sophoton Technology Co., Ltd. Major Business
- 2.3.3 Suzhou Sophoton Technology Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services
- 2.3.4 Suzhou Sophoton Technology Co., Ltd. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.3.5 Suzhou Sophoton Technology Co., Ltd. Recent Developments/Updates

### 2.4 Shenzhen PolarisIC Microelectronics Co., Ltd.

- 2.4.1 Shenzhen PolarisIC Microelectronics Co., Ltd. Details
- 2.4.2 Shenzhen PolarisIC Microelectronics Co., Ltd. Major Business
- 2.4.3 Shenzhen PolarisIC Microelectronics Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services
- 2.4.4 Shenzhen PolarisIC Microelectronics Co., Ltd. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Shenzhen PolarisIC Microelectronics Co., Ltd. Recent Developments/Updates  
2.5 Hangzhou Microparity Technology Co., Ltd.

2.5.1 Hangzhou Microparity Technology Co., Ltd. Details

2.5.2 Hangzhou Microparity Technology Co., Ltd. Major Business

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

2.5.4 Hangzhou Microparity Technology Co., Ltd. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Hangzhou Microparity Technology Co., Ltd. Recent Developments/Updates  
2.6 Nanjing Evisionics Microelectronics Technology Co., Ltd.

2.6.1 Nanjing Evisionics Microelectronics Technology Co., Ltd. Details

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

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

2.6.4 Nanjing Evisionics Microelectronics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

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

2.7 Sony Semiconductor Solutions Corporation

2.7.1 Sony Semiconductor Solutions Corporation Details

2.7.2 Sony Semiconductor Solutions Corporation Major Business

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

2.7.4 Sony Semiconductor Solutions Corporation Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Sony Semiconductor Solutions Corporation Recent Developments/Updates  
2.8 Hamamatsu Photonics K.K.

2.8.1 Hamamatsu Photonics K.K. Details

2.8.2 Hamamatsu Photonics K.K. Major Business

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

2.8.4 Hamamatsu Photonics K.K. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Hamamatsu Photonics K.K. Recent Developments/Updates

2.9 Canon Inc.

2.9.1 Canon Inc. Details

- 2.9.2 Canon Inc. Major Business
- 2.9.3 Canon Inc. Single-Photon Avalanche Diode Chips Product and Services
- 2.9.4 Canon Inc. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.9.5 Canon Inc. Recent Developments/Updates
- 2.10 STMicroelectronics N.V.
  - 2.10.1 STMicroelectronics N.V. Details
  - 2.10.2 STMicroelectronics N.V. Major Business
  - 2.10.3 STMicroelectronics N.V. Single-Photon Avalanche Diode Chips Product and Services
  - 2.10.4 STMicroelectronics N.V. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.10.5 STMicroelectronics N.V. Recent Developments/Updates
- 2.11 ams-OSRAM AG
  - 2.11.1 ams-OSRAM AG Details
  - 2.11.2 ams-OSRAM AG Major Business
  - 2.11.3 ams-OSRAM AG Single-Photon Avalanche Diode Chips Product and Services
  - 2.11.4 ams-OSRAM AG Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.11.5 ams-OSRAM AG Recent Developments/Updates
- 2.12 onsemi
  - 2.12.1 onsemi Details
  - 2.12.2 onsemi Major Business
  - 2.12.3 onsemi Single-Photon Avalanche Diode Chips Product and Services
  - 2.12.4 onsemi Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.12.5 onsemi Recent Developments/Updates
- 2.13 Excelitas Technologies Corp.
  - 2.13.1 Excelitas Technologies Corp. Details
  - 2.13.2 Excelitas Technologies Corp. Major Business
  - 2.13.3 Excelitas Technologies Corp. Single-Photon Avalanche Diode Chips Product and Services
  - 2.13.4 Excelitas Technologies Corp. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.13.5 Excelitas Technologies Corp. Recent Developments/Updates
- 2.14 SAAZ Micro Inc.
  - 2.14.1 SAAZ Micro Inc. Details
  - 2.14.2 SAAZ Micro Inc. Major Business
  - 2.14.3 SAAZ Micro Inc. Single-Photon Avalanche Diode Chips Product and Services

2.14.4 SAAZ Micro Inc. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 SAAZ Micro Inc. Recent Developments/Updates

2.15 Micro Photon Devices S.r.l.

2.15.1 Micro Photon Devices S.r.l. Details

2.15.2 Micro Photon Devices S.r.l. Major Business

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

2.15.4 Micro Photon Devices S.r.l. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 Micro Photon Devices S.r.l. Recent Developments/Updates

2.16 LASER COMPONENTS GmbH

2.16.1 LASER COMPONENTS GmbH Details

2.16.2 LASER COMPONENTS GmbH Major Business

2.16.3 LASER COMPONENTS GmbH Single-Photon Avalanche Diode Chips Product and Services

2.16.4 LASER COMPONENTS GmbH Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 LASER COMPONENTS GmbH Recent Developments/Updates

2.17 Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company)

2.17.1 Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Details

2.17.2 Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Major Business

2.17.3 Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Single-Photon Avalanche Diode Chips Product and Services

2.17.4 Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.17.5 Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Recent Developments/Updates

2.18 Singular Photonics Ltd.

2.18.1 Singular Photonics Ltd. Details

2.18.2 Singular Photonics Ltd. Major Business

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

2.18.4 Singular Photonics Ltd. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.18.5 Singular Photonics Ltd. Recent Developments/Updates

## 2.19 Photon Force Ltd.

2.19.1 Photon Force Ltd. Details

2.19.2 Photon Force Ltd. Major Business

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

2.19.4 Photon Force Ltd. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.19.5 Photon Force Ltd. Recent Developments/Updates

## 2.20 SOLiDVUE Inc.

2.20.1 SOLiDVUE Inc. Details

2.20.2 SOLiDVUE Inc. Major Business

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

2.20.4 SOLiDVUE Inc. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.20.5 SOLiDVUE Inc. Recent Developments/Updates

## 2.21 Artilux, Inc.

2.21.1 Artilux, Inc. Details

2.21.2 Artilux, Inc. Major Business

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

2.21.4 Artilux, Inc. Single-Photon Avalanche Diode Chips Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.21.5 Artilux, Inc. Recent Developments/Updates

## **3 COMPETITIVE ENVIRONMENT: SINGLE-PHOTON AVALANCHE DIODE CHIPS BY MANUFACTURER**

3.1 Global Single-Photon Avalanche Diode Chips Sales Quantity by Manufacturer (2021-2026)

3.2 Global Single-Photon Avalanche Diode Chips Revenue by Manufacturer (2021-2026)

3.3 Global Single-Photon Avalanche Diode Chips Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

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

3.4.2 Top 3 Single-Photon Avalanche Diode Chips Manufacturer Market Share in 2025

3.4.3 Top 6 Single-Photon Avalanche Diode Chips Manufacturer Market Share in 2025

3.5 Single-Photon Avalanche Diode Chips Market: Overall Company Footprint Analysis

3.5.1 Single-Photon Avalanche Diode Chips Market: Region Footprint

3.5.2 Single-Photon Avalanche Diode Chips Market: Company Product Type Footprint

- 3.5.3 Single-Photon Avalanche Diode Chips Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Single-Photon Avalanche Diode Chips Market Size by Region
  - 4.1.1 Global Single-Photon Avalanche Diode Chips Sales Quantity by Region (2021-2032)
  - 4.1.2 Global Single-Photon Avalanche Diode Chips Consumption Value by Region (2021-2032)
  - 4.1.3 Global Single-Photon Avalanche Diode Chips Average Price by Region (2021-2032)
- 4.2 North America Single-Photon Avalanche Diode Chips Consumption Value (2021-2032)
- 4.3 Europe Single-Photon Avalanche Diode Chips Consumption Value (2021-2032)
- 4.4 Asia-Pacific Single-Photon Avalanche Diode Chips Consumption Value (2021-2032)
- 4.5 South America Single-Photon Avalanche Diode Chips Consumption Value (2021-2032)
- 4.6 Middle East & Africa Single-Photon Avalanche Diode Chips Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Single-Photon Avalanche Diode Chips Sales Quantity by Type (2021-2032)
- 5.2 Global Single-Photon Avalanche Diode Chips Consumption Value by Type (2021-2032)
- 5.3 Global Single-Photon Avalanche Diode Chips Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Single-Photon Avalanche Diode Chips Sales Quantity by Application (2021-2032)
- 6.2 Global Single-Photon Avalanche Diode Chips Consumption Value by Application (2021-2032)
- 6.3 Global Single-Photon Avalanche Diode Chips Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

7.1 North America Single-Photon Avalanche Diode Chips Sales Quantity by Type (2021-2032)

7.2 North America Single-Photon Avalanche Diode Chips Sales Quantity by Application (2021-2032)

7.3 North America Single-Photon Avalanche Diode Chips Market Size by Country

7.3.1 North America Single-Photon Avalanche Diode Chips Sales Quantity by Country (2021-2032)

7.3.2 North America Single-Photon Avalanche Diode Chips Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

8.1 Europe Single-Photon Avalanche Diode Chips Sales Quantity by Type (2021-2032)

8.2 Europe Single-Photon Avalanche Diode Chips Sales Quantity by Application (2021-2032)

8.3 Europe Single-Photon Avalanche Diode Chips Market Size by Country

8.3.1 Europe Single-Photon Avalanche Diode Chips Sales Quantity by Country (2021-2032)

8.3.2 Europe Single-Photon Avalanche Diode Chips Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Single-Photon Avalanche Diode Chips Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Single-Photon Avalanche Diode Chips Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Single-Photon Avalanche Diode Chips Market Size by Region

9.3.1 Asia-Pacific Single-Photon Avalanche Diode Chips Sales Quantity by Region

(2021-2032)

9.3.2 Asia-Pacific Single-Photon Avalanche Diode Chips Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

10.1 South America Single-Photon Avalanche Diode Chips Sales Quantity by Type (2021-2032)

10.2 South America Single-Photon Avalanche Diode Chips Sales Quantity by Application (2021-2032)

10.3 South America Single-Photon Avalanche Diode Chips Market Size by Country

10.3.1 South America Single-Photon Avalanche Diode Chips Sales Quantity by Country (2021-2032)

10.3.2 South America Single-Photon Avalanche Diode Chips Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Single-Photon Avalanche Diode Chips Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Single-Photon Avalanche Diode Chips Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Single-Photon Avalanche Diode Chips Market Size by Country

11.3.1 Middle East & Africa Single-Photon Avalanche Diode Chips Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Single-Photon Avalanche Diode Chips Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

### 11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

- 12.1 Single-Photon Avalanche Diode Chips Market Drivers
- 12.2 Single-Photon Avalanche Diode Chips Market Restraints
- 12.3 Single-Photon Avalanche Diode Chips Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Single-Photon Avalanche Diode Chips and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Single-Photon Avalanche Diode Chips
- 13.3 Single-Photon Avalanche Diode Chips Production Process
- 13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Single-Photon Avalanche Diode Chips Typical Distributors
- 14.3 Single-Photon Avalanche Diode Chips Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Single-Photon Avalanche Diode Chips Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Single-Photon Avalanche Diode Chips Consumption Value by Spectral Response, (USD Million), 2021 & 2025 & 2032

Table 3. Global Single-Photon Avalanche Diode Chips Consumption Value by Integration, (USD Million), 2021 & 2025 & 2032

Table 4. Global Single-Photon Avalanche Diode Chips Consumption Value by Packaging, (USD Million), 2021 & 2025 & 2032

Table 5. Global Single-Photon Avalanche Diode Chips Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. Shenzhen Adaps Photonics Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 7. Shenzhen Adaps Photonics Technology Co., Ltd. Major Business

Table 8. Shenzhen Adaps Photonics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

Table 9. Shenzhen Adaps Photonics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. Shenzhen Adaps Photonics Technology Co., Ltd. Recent Developments/Updates

Table 11. Fortsense Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 12. Fortsense Co., Ltd. Major Business

Table 13. Fortsense Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

Table 14. Fortsense Co., Ltd. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. Fortsense Co., Ltd. Recent Developments/Updates

Table 16. Suzhou Sophoton Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 17. Suzhou Sophoton Technology Co., Ltd. Major Business

Table 18. Suzhou Sophoton Technology Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

Table 19. Suzhou Sophoton Technology Co., Ltd. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million),

## Gross Margin and Market Share (2021-2026)

Table 20. Suzhou Sophoton Technology Co., Ltd. Recent Developments/Updates

Table 21. Shenzhen PolarisIC Microelectronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 22. Shenzhen PolarisIC Microelectronics Co., Ltd. Major Business

Table 23. Shenzhen PolarisIC Microelectronics Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

Table 24. Shenzhen PolarisIC Microelectronics Co., Ltd. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. Shenzhen PolarisIC Microelectronics Co., Ltd. Recent Developments/Updates

Table 26. Hangzhou Microparity Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 27. Hangzhou Microparity Technology Co., Ltd. Major Business

Table 28. Hangzhou Microparity Technology Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

Table 29. Hangzhou Microparity Technology Co., Ltd. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. Hangzhou Microparity Technology Co., Ltd. Recent Developments/Updates

Table 31. Nanjing Evisionics Microelectronics Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 32. Nanjing Evisionics Microelectronics Technology Co., Ltd. Major Business

Table 33. Nanjing Evisionics Microelectronics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Product and Services

Table 34. Nanjing Evisionics Microelectronics Technology Co., Ltd. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. Nanjing Evisionics Microelectronics Technology Co., Ltd. Recent Developments/Updates

Table 36. Sony Semiconductor Solutions Corporation Basic Information, Manufacturing Base and Competitors

Table 37. Sony Semiconductor Solutions Corporation Major Business

Table 38. Sony Semiconductor Solutions Corporation Single-Photon Avalanche Diode Chips Product and Services

Table 39. Sony Semiconductor Solutions Corporation Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. Sony Semiconductor Solutions Corporation Recent Developments/Updates

Table 41. Hamamatsu Photonics K.K. Basic Information, Manufacturing Base and Competitors

Table 42. Hamamatsu Photonics K.K. Major Business

Table 43. Hamamatsu Photonics K.K. Single-Photon Avalanche Diode Chips Product and Services

Table 44. Hamamatsu Photonics K.K. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. Hamamatsu Photonics K.K. Recent Developments/Updates

Table 46. Canon Inc. Basic Information, Manufacturing Base and Competitors

Table 47. Canon Inc. Major Business

Table 48. Canon Inc. Single-Photon Avalanche Diode Chips Product and Services

Table 49. Canon Inc. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 50. Canon Inc. Recent Developments/Updates

Table 51. STMicroelectronics N.V. Basic Information, Manufacturing Base and Competitors

Table 52. STMicroelectronics N.V. Major Business

Table 53. STMicroelectronics N.V. Single-Photon Avalanche Diode Chips Product and Services

Table 54. STMicroelectronics N.V. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 55. STMicroelectronics N.V. Recent Developments/Updates

Table 56. ams-OSRAM AG Basic Information, Manufacturing Base and Competitors

Table 57. ams-OSRAM AG Major Business

Table 58. ams-OSRAM AG Single-Photon Avalanche Diode Chips Product and Services

Table 59. ams-OSRAM AG Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. ams-OSRAM AG Recent Developments/Updates

Table 61. onsemi Basic Information, Manufacturing Base and Competitors

Table 62. onsemi Major Business

Table 63. onsemi Single-Photon Avalanche Diode Chips Product and Services

Table 64. onsemi Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. onsemi Recent Developments/Updates

Table 66. Excelitas Technologies Corp. Basic Information, Manufacturing Base and Competitors

Table 67. Excelitas Technologies Corp. Major Business

Table 68. Excelitas Technologies Corp. Single-Photon Avalanche Diode Chips Product and Services

Table 69. Excelitas Technologies Corp. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 70. Excelitas Technologies Corp. Recent Developments/Updates

Table 71. SAAZ Micro Inc. Basic Information, Manufacturing Base and Competitors

Table 72. SAAZ Micro Inc. Major Business

Table 73. SAAZ Micro Inc. Single-Photon Avalanche Diode Chips Product and Services

Table 74. SAAZ Micro Inc. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 75. SAAZ Micro Inc. Recent Developments/Updates

Table 76. Micro Photon Devices S.r.l. Basic Information, Manufacturing Base and Competitors

Table 77. Micro Photon Devices S.r.l. Major Business

Table 78. Micro Photon Devices S.r.l. Single-Photon Avalanche Diode Chips Product and Services

Table 79. Micro Photon Devices S.r.l. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 80. Micro Photon Devices S.r.l. Recent Developments/Updates

Table 81. LASER COMPONENTS GmbH Basic Information, Manufacturing Base and Competitors

Table 82. LASER COMPONENTS GmbH Major Business

Table 83. LASER COMPONENTS GmbH Single-Photon Avalanche Diode Chips Product and Services

Table 84. LASER COMPONENTS GmbH Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. LASER COMPONENTS GmbH Recent Developments/Updates

Table 86. Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Basic Information, Manufacturing Base and Competitors

Table 87. Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Major Business

- Table 88. Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Single-Photon Avalanche Diode Chips Product and Services
- Table 89. Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 90. Carl Zeiss Microscopy GmbH (Pi Imaging Technology SA – a ZEISS Company) Recent Developments/Updates
- Table 91. Singular Photonics Ltd. Basic Information, Manufacturing Base and Competitors
- Table 92. Singular Photonics Ltd. Major Business
- Table 93. Singular Photonics Ltd. Single-Photon Avalanche Diode Chips Product and Services
- Table 94. Singular Photonics Ltd. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 95. Singular Photonics Ltd. Recent Developments/Updates
- Table 96. Photon Force Ltd. Basic Information, Manufacturing Base and Competitors
- Table 97. Photon Force Ltd. Major Business
- Table 98. Photon Force Ltd. Single-Photon Avalanche Diode Chips Product and Services
- Table 99. Photon Force Ltd. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 100. Photon Force Ltd. Recent Developments/Updates
- Table 101. SOLiDVUE Inc. Basic Information, Manufacturing Base and Competitors
- Table 102. SOLiDVUE Inc. Major Business
- Table 103. SOLiDVUE Inc. Single-Photon Avalanche Diode Chips Product and Services
- Table 104. SOLiDVUE Inc. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 105. SOLiDVUE Inc. Recent Developments/Updates
- Table 106. Artilux, Inc. Basic Information, Manufacturing Base and Competitors
- Table 107. Artilux, Inc. Major Business
- Table 108. Artilux, Inc. Single-Photon Avalanche Diode Chips Product and Services
- Table 109. Artilux, Inc. Single-Photon Avalanche Diode Chips Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 110. Artilux, Inc. Recent Developments/Updates

- Table 111. Global Single-Photon Avalanche Diode Chips Sales Quantity by Manufacturer (2021-2026) & (Million Units)
- Table 112. Global Single-Photon Avalanche Diode Chips Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 113. Global Single-Photon Avalanche Diode Chips Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 114. Market Position of Manufacturers in Single-Photon Avalanche Diode Chips, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 115. Head Office and Single-Photon Avalanche Diode Chips Production Site of Key Manufacturer
- Table 116. Single-Photon Avalanche Diode Chips Market: Company Product Type Footprint
- Table 117. Single-Photon Avalanche Diode Chips Market: Company Product Application Footprint
- Table 118. Single-Photon Avalanche Diode Chips New Market Entrants and Barriers to Market Entry
- Table 119. Single-Photon Avalanche Diode Chips Mergers, Acquisition, Agreements, and Collaborations
- Table 120. Global Single-Photon Avalanche Diode Chips Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 121. Global Single-Photon Avalanche Diode Chips Sales Quantity by Region (2021-2026) & (Million Units)
- Table 122. Global Single-Photon Avalanche Diode Chips Sales Quantity by Region (2027-2032) & (Million Units)
- Table 123. Global Single-Photon Avalanche Diode Chips Consumption Value by Region (2021-2026) & (USD Million)
- Table 124. Global Single-Photon Avalanche Diode Chips Consumption Value by Region (2027-2032) & (USD Million)
- Table 125. Global Single-Photon Avalanche Diode Chips Average Price by Region (2021-2026) & (US\$/Unit)
- Table 126. Global Single-Photon Avalanche Diode Chips Average Price by Region (2027-2032) & (US\$/Unit)
- Table 127. Global Single-Photon Avalanche Diode Chips Sales Quantity by Type (2021-2026) & (Million Units)
- Table 128. Global Single-Photon Avalanche Diode Chips Sales Quantity by Type (2027-2032) & (Million Units)
- Table 129. Global Single-Photon Avalanche Diode Chips Consumption Value by Type (2021-2026) & (USD Million)
- Table 130. Global Single-Photon Avalanche Diode Chips Consumption Value by Type

(2027-2032) & (USD Million)

Table 131. Global Single-Photon Avalanche Diode Chips Average Price by Type (2021-2026) & (US\$/Unit)

Table 132. Global Single-Photon Avalanche Diode Chips Average Price by Type (2027-2032) & (US\$/Unit)

Table 133. Global Single-Photon Avalanche Diode Chips Sales Quantity by Application (2021-2026) & (Million Units)

Table 134. Global Single-Photon Avalanche Diode Chips Sales Quantity by Application (2027-2032) & (Million Units)

Table 135. Global Single-Photon Avalanche Diode Chips Consumption Value by Application (2021-2026) & (USD Million)

Table 136. Global Single-Photon Avalanche Diode Chips Consumption Value by Application (2027-2032) & (USD Million)

Table 137. Global Single-Photon Avalanche Diode Chips Average Price by Application (2021-2026) & (US\$/Unit)

Table 138. Global Single-Photon Avalanche Diode Chips Average Price by Application (2027-2032) & (US\$/Unit)

Table 139. North America Single-Photon Avalanche Diode Chips Sales Quantity by Type (2021-2026) & (Million Units)

Table 140. North America Single-Photon Avalanche Diode Chips Sales Quantity by Type (2027-2032) & (Million Units)

Table 141. North America Single-Photon Avalanche Diode Chips Sales Quantity by Application (2021-2026) & (Million Units)

Table 142. North America Single-Photon Avalanche Diode Chips Sales Quantity by Application (2027-2032) & (Million Units)

Table 143. North America Single-Photon Avalanche Diode Chips Sales Quantity by Country (2021-2026) & (Million Units)

Table 144. North America Single-Photon Avalanche Diode Chips Sales Quantity by Country (2027-2032) & (Million Units)

Table 145. North America Single-Photon Avalanche Diode Chips Consumption Value by Country (2021-2026) & (USD Million)

Table 146. North America Single-Photon Avalanche Diode Chips Consumption Value by Country (2027-2032) & (USD Million)

Table 147. Europe Single-Photon Avalanche Diode Chips Sales Quantity by Type (2021-2026) & (Million Units)

Table 148. Europe Single-Photon Avalanche Diode Chips Sales Quantity by Type (2027-2032) & (Million Units)

Table 149. Europe Single-Photon Avalanche Diode Chips Sales Quantity by Application (2021-2026) & (Million Units)

Table 150. Europe Single-Photon Avalanche Diode Chips Sales Quantity by Application (2027-2032) & (Million Units)

Table 151. Europe Single-Photon Avalanche Diode Chips Sales Quantity by Country (2021-2026) & (Million Units)

Table 152. Europe Single-Photon Avalanche Diode Chips Sales Quantity by Country (2027-2032) & (Million Units)

Table 153. Europe Single-Photon Avalanche Diode Chips Consumption Value by Country (2021-2026) & (USD Million)

Table 154. Europe Single-Photon Avalanche Diode Chips Consumption Value by Country (2027-2032) & (USD Million)

Table 155. Asia-Pacific Single-Photon Avalanche Diode Chips Sales Quantity by Type (2021-2026) & (Million Units)

Table 156. Asia-Pacific Single-Photon Avalanche Diode Chips Sales Quantity by Type (2027-2032) & (Million Units)

Table 157. Asia-Pacific Single-Photon Avalanche Diode Chips Sales Quantity by Application (2021-2026) & (Million Units)

Table 158. Asia-Pacific Single-Photon Avalanche Diode Chips Sales Quantity by Application (2027-2032) & (Million Units)

Table 159. Asia-Pacific Single-Photon Avalanche Diode Chips Sales Quantity by Region (2021-2026) & (Million Units)

Table 160. Asia-Pacific Single-Photon Avalanche Diode Chips Sales Quantity by Region (2027-2032) & (Million Units)

Table 161. Asia-Pacific Single-Photon Avalanche Diode Chips Consumption Value by Region (2021-2026) & (USD Million)

Table 162. Asia-Pacific Single-Photon Avalanche Diode Chips Consumption Value by Region (2027-2032) & (USD Million)

Table 163. South America Single-Photon Avalanche Diode Chips Sales Quantity by Type (2021-2026) & (Million Units)

Table 164. South America Single-Photon Avalanche Diode Chips Sales Quantity by Type (2027-2032) & (Million Units)

Table 165. South America Single-Photon Avalanche Diode Chips Sales Quantity by Application (2021-2026) & (Million Units)

Table 166. South America Single-Photon Avalanche Diode Chips Sales Quantity by Application (2027-2032) & (Million Units)

Table 167. South America Single-Photon Avalanche Diode Chips Sales Quantity by Country (2021-2026) & (Million Units)

Table 168. South America Single-Photon Avalanche Diode Chips Sales Quantity by Country (2027-2032) & (Million Units)

Table 169. South America Single-Photon Avalanche Diode Chips Consumption Value

by Country (2021-2026) & (USD Million)

Table 170. South America Single-Photon Avalanche Diode Chips Consumption Value by Country (2027-2032) & (USD Million)

Table 171. Middle East & Africa Single-Photon Avalanche Diode Chips Sales Quantity by Type (2021-2026) & (Million Units)

Table 172. Middle East & Africa Single-Photon Avalanche Diode Chips Sales Quantity by Type (2027-2032) & (Million Units)

Table 173. Middle East & Africa Single-Photon Avalanche Diode Chips Sales Quantity by Application (2021-2026) & (Million Units)

Table 174. Middle East & Africa Single-Photon Avalanche Diode Chips Sales Quantity by Application (2027-2032) & (Million Units)

Table 175. Middle East & Africa Single-Photon Avalanche Diode Chips Sales Quantity by Country (2021-2026) & (Million Units)

Table 176. Middle East & Africa Single-Photon Avalanche Diode Chips Sales Quantity by Country (2027-2032) & (Million Units)

Table 177. Middle East & Africa Single-Photon Avalanche Diode Chips Consumption Value by Country (2021-2026) & (USD Million)

Table 178. Middle East & Africa Single-Photon Avalanche Diode Chips Consumption Value by Country (2027-2032) & (USD Million)

Table 179. Single-Photon Avalanche Diode Chips Raw Material

Table 180. Key Manufacturers of Single-Photon Avalanche Diode Chips Raw Materials

Table 181. Single-Photon Avalanche Diode Chips Typical Distributors

Table 182. Single-Photon Avalanche Diode Chips Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Single-Photon Avalanche Diode Chips Picture
- Figure 2. Global Single-Photon Avalanche Diode Chips Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Single-Photon Avalanche Diode Chips Revenue Market Share by Type in 2025
- Figure 4. Array Chips Examples
- Figure 5. Integrated Sensor Chips Examples
- Figure 6. Discrete and Single Pixel Chips Examples
- Figure 7. Others Examples
- Figure 8. Global Single-Photon Avalanche Diode Chips Revenue by Spectral Response, (USD Million), 2021 & 2025 & 2032
- Figure 9. Global Single-Photon Avalanche Diode Chips Revenue Market Share by Spectral Response in 2025
- Figure 10. Visible - NIR Examples
- Figure 11. SWIR Examples
- Figure 12. Others Examples
- Figure 13. Global Single-Photon Avalanche Diode Chips Revenue by Integration, (USD Million), 2021 & 2025 & 2032
- Figure 14. Global Single-Photon Avalanche Diode Chips Revenue Market Share by Integration in 2025
- Figure 15. Standalone Sensor Examples
- Figure 16. Hybrid Integrated Examples
- Figure 17. Fully Integrated (SoC) Examples
- Figure 18. Global Single-Photon Avalanche Diode Chips Revenue by Packaging, (USD Million), 2021 & 2025 & 2032
- Figure 19. Global Single-Photon Avalanche Diode Chips Revenue Market Share by Packaging in 2025
- Figure 20. Surface Mount Examples
- Figure 21. Chip Scale Package Examples
- Figure 22. Others Examples
- Figure 23. Global Single-Photon Avalanche Diode Chips Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 24. Global Single-Photon Avalanche Diode Chips Revenue Market Share by Application in 2025
- Figure 25. Automotive Examples

Figure 26. Consumer Examples

Figure 27. Industrial & Medical Examples

Figure 28. Others Examples

Figure 29. Global Single-Photon Avalanche Diode Chips Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 30. Global Single-Photon Avalanche Diode Chips Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 31. Global Single-Photon Avalanche Diode Chips Sales Quantity (2021-2032) & (Million Units)

Figure 32. Global Single-Photon Avalanche Diode Chips Price (2021-2032) & (US\$/Unit)

Figure 33. Global Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Manufacturer in 2025

Figure 34. Global Single-Photon Avalanche Diode Chips Revenue Market Share by Manufacturer in 2025

Figure 35. Producer Shipments of Single-Photon Avalanche Diode Chips by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 36. Top 3 Single-Photon Avalanche Diode Chips Manufacturer (Revenue) Market Share in 2025

Figure 37. Top 6 Single-Photon Avalanche Diode Chips Manufacturer (Revenue) Market Share in 2025

Figure 38. Global Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Region (2021-2032)

Figure 39. Global Single-Photon Avalanche Diode Chips Consumption Value Market Share by Region (2021-2032)

Figure 40. North America Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 41. Europe Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 42. Asia-Pacific Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 43. South America Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 44. Middle East & Africa Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 45. Global Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Type (2021-2032)

Figure 46. Global Single-Photon Avalanche Diode Chips Consumption Value Market Share by Type (2021-2032)

Figure 47. Global Single-Photon Avalanche Diode Chips Average Price by Type (2021-2032) & (US\$/Unit)

Figure 48. Global Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Application (2021-2032)

Figure 49. Global Single-Photon Avalanche Diode Chips Revenue Market Share by Application (2021-2032)

Figure 50. Global Single-Photon Avalanche Diode Chips Average Price by Application (2021-2032) & (US\$/Unit)

Figure 51. North America Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Type (2021-2032)

Figure 52. North America Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Application (2021-2032)

Figure 53. North America Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Country (2021-2032)

Figure 54. North America Single-Photon Avalanche Diode Chips Consumption Value Market Share by Country (2021-2032)

Figure 55. United States Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 56. Canada Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 57. Mexico Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 58. Europe Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Type (2021-2032)

Figure 59. Europe Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Application (2021-2032)

Figure 60. Europe Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Country (2021-2032)

Figure 61. Europe Single-Photon Avalanche Diode Chips Consumption Value Market Share by Country (2021-2032)

Figure 62. Germany Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 63. France Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 64. United Kingdom Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 65. Russia Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 66. Italy Single-Photon Avalanche Diode Chips Consumption Value (2021-2032)

& (USD Million)

Figure 67. Asia-Pacific Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Type (2021-2032)

Figure 68. Asia-Pacific Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Application (2021-2032)

Figure 69. Asia-Pacific Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Region (2021-2032)

Figure 70. Asia-Pacific Single-Photon Avalanche Diode Chips Consumption Value Market Share by Region (2021-2032)

Figure 71. China Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 72. Japan Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 73. South Korea Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 74. India Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 75. Southeast Asia Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 76. Australia Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 77. South America Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Type (2021-2032)

Figure 78. South America Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Application (2021-2032)

Figure 79. South America Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Country (2021-2032)

Figure 80. South America Single-Photon Avalanche Diode Chips Consumption Value Market Share by Country (2021-2032)

Figure 81. Brazil Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 82. Argentina Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 83. Middle East & Africa Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Type (2021-2032)

Figure 84. Middle East & Africa Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Application (2021-2032)

Figure 85. Middle East & Africa Single-Photon Avalanche Diode Chips Sales Quantity Market Share by Country (2021-2032)

Figure 86. Middle East & Africa Single-Photon Avalanche Diode Chips Consumption Value Market Share by Country (2021-2032)

Figure 87. Turkey Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 88. Egypt Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 89. Saudi Arabia Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 90. South Africa Single-Photon Avalanche Diode Chips Consumption Value (2021-2032) & (USD Million)

Figure 91. Single-Photon Avalanche Diode Chips Market Drivers

Figure 92. Single-Photon Avalanche Diode Chips Market Restraints

Figure 93. Single-Photon Avalanche Diode Chips Market Trends

Figure 94. Porters Five Forces Analysis

Figure 95. Manufacturing Cost Structure Analysis of Single-Photon Avalanche Diode Chips in 2025

Figure 96. Manufacturing Process Analysis of Single-Photon Avalanche Diode Chips

Figure 97. Single-Photon Avalanche Diode Chips Industrial Chain

Figure 98. Sales Channel: Direct to End-User vs Distributors

Figure 99. Direct Channel Pros & Cons

Figure 100. Indirect Channel Pros & Cons

Figure 101. Methodology

Figure 102. Research Process and Data Source

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