

# Global PIN Photo Diode Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global PIN Photo Diode market size is expected to reach \$ 1519 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

In 2025, global PIN photodiode production reached 1.004 billion units, with an average selling price of \$625 per thousand units. Global annual production capacity for PIN photodiodes is approximately 2 billion units, with a gross margin of approximately 22.8%. A PIN photodiode is a semiconductor optical sensor characterized by its three-layer structure, consisting of a positively doped (P) layer, an intrinsic (I) layer, and a negatively doped (N) layer. Its key feature lies in the wide undoped intrinsic region between the P and N layers. When reverse-biased, this intrinsic layer forms a large depletion region with a strong electric field. When light enters this region, electron-hole pairs are generated, which are rapidly separated by the electric field, thus generating a current. This design minimizes capacitance and transit time, achieving fast response and linear light-to-electricity conversion. The upstream of the PIN photodiode industry chain includes raw materials and epitaxial/wafer substrates for PIN, high-purity gases, etching solutions, etc.; the midstream consists of PIN photodiode manufacturers; and the downstream mainly comprises industries such as aerospace, consumer electronics, and automotive.

PIN photodiodes are high-performance semiconductor photodetectors that utilize a P-I-N structure to form a wide built-in depletion region under reverse bias. They absorb photons to generate electron-hole pairs, which are then rapidly separated and collected by an electric field, achieving a linear response between light intensity and current. Currently, the market demand for PIN photodiodes in optical communication, sensing, and laser ranging is steadily growing. The mainstream materials are silicon PIN and InGaAs PIN, covering the visible to near-infrared bands. Competition among suppliers

and manufacturers is fierce, with performance-cost trade-offs and packaging and integration capabilities becoming key competitive factors. Future market expansion will be driven by customized demands for high-bandwidth, low-noise, narrowband, or specific wavelength applications.

This report studies the global PIN Photo Diode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PIN Photo Diode 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 PIN Photo Diode that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global PIN Photo Diode total production and demand, 2021-2032, (M Pcs)

Global PIN Photo Diode total production value, 2021-2032, (USD Million)

Global PIN Photo Diode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M Pcs), (based on production site)

Global PIN Photo Diode consumption by region & country, CAGR, 2021-2032 & (M Pcs)

U.S. VS China: PIN Photo Diode domestic production, consumption, key domestic manufacturers and share

Global PIN Photo Diode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Pcs)

Global PIN Photo Diode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Pcs)

Global PIN Photo Diode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Pcs)

This report profiles key players in the global PIN Photo Diode 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 Hamamatsu Photonics K.K., MACOM Technology Solutions Holdings, Broadcom, Lumentum Holdings, ams-OSRAM, OSI Optoelectronics, Excelitas Technologies Corp., TE Connectivity plc, Dexerials Corporation, Vishay Intertechnology, 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 PIN Photo Diode market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Pcs) and average price (USD/K Pcs) 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 PIN Photo Diode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global PIN Photo Diode Market, Segmentation by Type:

Silicon PIN Photodiodes

InGaAs PIN Photodiodes

Others

## Global PIN Photo Diode Market, Segmentation by Structure:

Flat Panel Type

Tabletop Type

## Global PIN Photo Diode Market, Segmentation by Packaging Type:

Surface Mount Type

Pin Type

Others

## Global PIN Photo Diode Market, Segmentation by Application:

Industrial and Instrumentation

Communications and Datacom

Consumer Electronics

Others

## Companies Profiled:

Hamamatsu Photonics K.K.

MACOM Technology Solutions Holdings

Broadcom

Lumentum Holdings

ams-OSRAM

OSI Optoelectronics

Excelitas Technologies Corp.

TE Connectivity plc

Dexerials Corporation

Vishay Intertechnology

Ushio

DOWA Electronics Materials

onsemi

Albis Optoelectronics

EVERLIGHT Electronics

CLPT

LASER COMPONENTS Detector Group

SiFotonics Technologies

Marktech Optoelectronics

KODENSHI CORP.

## Optoway Technology

### **Key Questions Answered:**

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

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