

Global Photodetector Chip Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G7267DF86686EN.html>

Date: June 2026

Pages: 170

Price: US\$ 4,480.00 (Single User License)

ID: G7267DF86686EN

Abstracts

The global Photodetector Chip market size is expected to reach \$ 2940 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

In 2025, global Photodetector Chip production reached approximately 1,060 million units, with an average global market price of around US\$ 1.77 per unit. Gross margin is about 18.1%. The cost is US\$ 1.45 per unit. The production capacity is about 1,180 million units. A photodetector chip is a semiconductor device that converts optical signals into electrical signals, mainly used to detect, receive, and measure light intensity, optical pulses, or optical communication signals across different wavelength ranges. It is widely used in optical communication, LiDAR, consumer electronics, security monitoring, industrial inspection, medical devices, automotive electronics, and scientific instruments. With the development of high-speed communication, intelligent sensing, autonomous driving, and machine vision, photodetector chips are evolving toward higher sensitivity, faster response speed, lower noise, miniaturization, and multi-wavelength integration.

Photodetector chips are expected to evolve toward higher speed, higher sensitivity, lower noise, and multi-wavelength integration. Driven by optical communication, high-speed data center interconnects, LiDAR, 3D sensing, machine vision, and medical detection applications, demand will continue to increase for faster response, lower dark current, higher quantum efficiency, and stronger low-light detection capability. In terms of material platforms, silicon-based, InGaAs, Ge-on-Si, SPAD, and APD technologies will continue to be optimized for different wavelength ranges and application scenarios, while silicon photonics integration and CMOS-compatible processes are expected to support miniaturization, cost reduction, and large-scale production. Future competition will focus not only on single-chip performance, but also on the integration capability of

photodetector chips with readout circuits, optical packaging, signal processing algorithms, and system-level modules.

This report studies the global Photodetector Chip production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Photodetector Chip total production and demand, 2021-2032, (Million Units)

Global Photodetector Chip total production value, 2021-2032, (USD Million)

Global Photodetector Chip production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Photodetector Chip consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Photodetector Chip domestic production, consumption, key domestic manufacturers and share

Global Photodetector Chip production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Photodetector Chip production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Photodetector Chip production Packaging Method, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Photodetector Chip 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 Hebei Opto-Sensor Electronic Technology, PHOGRAIN Technology, Hamamatsu, Xiamen Sanan Integrated Circuit, ams-OSRAM, Broadcom, Wuhan Mindsemi Company, Coherent, Vishay, Wuhan Elite Optronics, 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 Photodetector Chip 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 Packaging Method. 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 Photodetector Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photodetector Chip Market, Segmentation by Type:

Avalanche Photodiode (APD) chips

PIN Photodiode (PIN) chips

Silicon Photomultiplier (SiPM) chips

Single-Photon Avalanche Diode (SPAD) chips

Global Photodetector Chip Market, Segmentation Packaging Method:

Optical Communication and Networking

LiDAR (Laser Radar)

Medical Imaging and Bioscience

Others

Companies Profiled:

Hebei Opto-Sensor Electronic Technology

PHOGRAIN Technology

Hamamatsu

Xiamen Sanan Integrated Circuit

ams-OSRAM

Broadcom

Wuhan Mindsemi Company

Coherent

Vishay

Wuhan Elite Optronics

SiFotonics

Excelitas Technologies

OSI Optoelectronics

ON Semiconductor

First Sensor (TE Connectivity)

Lumentum Operations

Dexerials

GCS

OptoGration (Luminar)

MACOM

Laser Components

Albis Optoelectronics

WOORIRO

Key Questions Answered:

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

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