

Global OPA Silicon Photonics Chip Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global OPA Silicon Photonics Chip market size is expected to reach \$ 142 million by 2032, rising at a market growth of 21.5% CAGR during the forecast period (2026-2032).

OPA (Optical Phased Aspect) silicon photonics chips are optoelectronic devices that integrate optical phased array technology onto single or multiple CMOS-compatible silicon-based chips using silicon photonics processes. Their core principle is to achieve mechanical-free beam scanning in space by precisely controlling the phase of each emitting unit in the arrayed waveguide, thus replacing traditional rotating mirrors or MEMS structures for high-speed, programmable beam pointing control. OPA silicon photonics chips are widely used in automotive LiDAR, autonomous driving perception, 3D imaging, free-space optical communication (FSO), AR/VR spatial perception, and defense detection systems. Their core advantages lie in high integration, miniaturization, low power consumption, absence of mechanical structures, high reliability, and the ability to mass-produce CMOS chips.

The OPA silicon photonics chip industry chain can be divided into three major segments: upstream materials and equipment, midstream chip design and manufacturing, and downstream system integration and applications. The upstream mainly includes silicon wafers (SOI wafers), III-V group materials, lithography and etching equipment (EUV/DUV), PECVD/ALD thin film processes, and packaging and testing equipment. The core midstream segment is silicon photonics chip design and manufacturing, including optical waveguide design, phase modulators, beam splitters, array antenna design, and heterogeneous integration with CMOS processes. The downstream segment is OPA system module integration, such as automotive LiDAR systems, AR/VR optical engines, drone obstacle avoidance systems, robot vision

modules, and space optical communication terminals, thus forming a complete optoelectronic industry chain from 'materials ? chips ? modules ? complete system applications.'

The long-term prospects for OPA silicon photonics chips are very strong, with core drivers coming from the expansion of AI computing networks, the penetration of L3/L4 autonomous driving, the upgrading of robot perception, and the explosive growth in demand for AR/VR spatial computing. In the data center sector, silicon photonics OPAs are upgrading from traditional 'pluggable optical modules' to 'co-packaged optics (CPO) + on-chip optical interconnects' to address the power consumption and bandwidth bottlenecks of GPU clusters. In the automotive sector, OPA LiDARs are gradually replacing mechanically rotating radars, achieving smaller size, lower cost, and higher reliability. In consumer electronics and defense, OPAs are used in ultra-thin AR optomechanical systems and high-precision long-range detection. With the maturation of silicon photonics processes and breakthroughs in III-V laser heterogeneous integration, OPA chips are expected to enter a stage of large-scale cost reduction. The industry is transitioning from laboratory and small-batch applications to shipments of millions of units, and will remain in the early stages of rapid growth for the next decade.

This report studies the global OPA Silicon Photonics Chip demand, key companies, and key regions.

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

Highlights and key features of the study

Global OPA Silicon Photonics Chip total market, 2021-2032, (USD Million)

Global OPA Silicon Photonics Chip total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: OPA Silicon Photonics Chip total market, key domestic companies, and share, (USD Million)

Global OPA Silicon Photonics Chip revenue by player, revenue and market share 2021-2026, (USD Million)

Global OPA Silicon Photonics Chip total market by Type, CAGR, 2021-2032, (USD Million)

Global OPA Silicon Photonics Chip total market by Application, CAGR, 2021-2032,

(USD Million)

This report profiles major players in the global OPA Silicon Photonics Chip market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Qunfa Photonics, Wuhan Tianmou Optoelectronics Co., Ltd., 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 OPA Silicon Photonics Chip market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 OPA Silicon Photonics Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global OPA Silicon Photonics Chip Market, Segmentation by Type:

One-Dimensional OPA

Two-Dimensional OPA

Hybrid OPA

Global OPA Silicon Photonics Chip Market, Segmentation by Light Source Integration Methods:

External Laser OPA

Silicon Photonics Integrated Laser OPA

Monolithically Integrated OPA

Global OPA Silicon Photonics Chip Market, Segmentation by Application:

Automotive LiDAR OPA

Data Center Optical Interconnect OPA

AR/VR Display and Sensing OPA

Free Space Optical Communication OPA (FSO)

Military/Aerospace Exploration OPA

Companies Profiled:

Qunfa Photonics

Wuhan Tianmou Optoelectronics Co., Ltd.

Key Questions Answered

1. How big is the global OPA Silicon Photonics Chip market?
2. What is the demand of the global OPA Silicon Photonics Chip market?
3. What is the year over year growth of the global OPA Silicon Photonics Chip market?
4. What is the total value of the global OPA Silicon Photonics Chip market?
5. Who are the Major Players in the global OPA Silicon Photonics Chip market?
6. What are the growth factors driving the market demand?

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