

Global OPA Silicon Photonics Chip Market 2026 by Company, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G60CB34EBA03EN.html>

Date: July 2026

Pages: 75

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

ID: G60CB34EBA03EN

Abstracts

According to our (Global Info Research) latest study, the global OPA Silicon Photonics Chip market size was valued at US\$ 37.04 million in 2025 and is forecast to a readjusted size of US\$ 142 million by 2032 with a CAGR of 21.5% during review period.

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.

The OPA Silicon Photonics Chip market report provides a detailed analysis of global market size, regional and country-level market size, segmentation market growth, market share, competitive Landscape, sales analysis, impact of domestic and global market players, value chain optimization, trade regulations, recent developments, opportunities analysis, strategic market growth analysis, product launches, area marketplace expanding, and technological innovations.

Market segmentation

OPA Silicon Photonics Chip market is split by Type and by Application. For the period 2026-2032, the growth among segments provide accurate calculations and forecasts for revenue by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type,

One-Dimensional OPA

Two-Dimensional OPA

Hybrid OPA

Market segment by Light Source Integration Methods

External Laser OPA

Silicon Photonics Integrated Laser OPA

Monolithically Integrated OPA

Market segment 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

Market segment by players, this report covers

Qunfa Photonics

Wuhan Tianmou Optoelectronics Co., Ltd.

Market segment by regions, regional analysis covers

North America

Europe

Asia-Pacific (China, Japan, South Korea, Rest of Asia)

South America

Middle East & Africa

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