

# **Photonic Integrated Computing Market Forecasts to 2034 – Global Analysis By Integration Type (Monolithic Integration, Hybrid Integration, and Module-Level Integration), Component (Lasers, Modulators, Photodetectors, Optical Amplifiers, Multiplexers / Demultiplexers, Waveguides, Attenuators, and Optical Interconnects), Material Platform, Computing Architecture, Fabrication Technology, Packaging Technology, Wavelength Range, Application, End User, and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Photonic Integrated Computing Market is accounted for \$1.3 billion in 2026 and is expected to reach \$6.3 billion by 2034 growing at a CAGR of 21.5% during the forecast period. Photonic integrated computing leverages light rather than electrons to process and transmit data, delivering ultra-high bandwidth, low latency, and dramatically reduced energy consumption compared to conventional electronics. These systems integrate optical components such as lasers, modulators, and detectors onto a single chip, enabling high-speed data communication, advanced sensing, and AI accelerator applications. The market is poised for rapid expansion as data-center demands, autonomous systems, and next-generation computing architectures increasingly rely on photonic solutions.

### **Market Dynamics:**

#### **Driver:**

## Soaring bandwidth demands from AI and data centers

The explosive growth of artificial intelligence workloads and hyperscale data centers is creating an urgent need for faster, more energy-efficient interconnects that traditional copper-based solutions cannot satisfy. Photonic integrated circuits enable terabit-scale data movement with a fraction of the power, directly addressing the bottleneck in compute-intensive environments. As AI model sizes double every few months, the economic and technical advantages of optical I/O become impossible to ignore, driving widespread adoption across cloud providers, semiconductor manufacturers, and high-performance computing facilities globally.

### **Restraint:**

#### High manufacturing complexity and cost

Fabricating photonic integrated circuits requires specialized foundries, compound semiconductor materials, and precision packaging techniques that remain significantly more expensive than standard CMOS electronics. The lack of standardized design tools and process design kits (PDKs) further raises development costs and extends time-to-market for new products. Yield challenges associated with hybrid integration of lasers with silicon photonics add another layer of expense, limiting accessibility to well-funded incumbents and slowing the entry of smaller innovators who could otherwise accelerate market diversification.

### **Opportunity:**

#### Integration with CMOS electronics for co-packaged optics

The convergence of photonics with traditional CMOS electronics in co-packaged optics presents a transformative opportunity to overcome cost and complexity barriers. By combining optical engines directly with switching silicon on the same substrate, manufacturers can simplify packaging, improve power efficiency, and achieve economies of scale using established semiconductor infrastructure. Major chipmakers are investing heavily in this approach, creating a clear pathway toward cost-competitive photonic computing solutions that can be deployed across mainstream server architectures, telecommunications equipment, and edge computing nodes.

### **Threat:**

## Competition from advanced electronic interconnects

Continuous innovation in electrical signaling, including low-voltage differential signaling and copper-based active cables, threatens to narrow the performance gap that currently favors photonic solutions. Emerging technologies such as near-package optics and advanced equalization techniques allow electrical links to reach distances and data rates previously thought impossible without optics. If these electronic alternatives deliver sufficient performance improvements while maintaining cost and integration advantages, they could delay the widespread adoption of photonic integrated computing, particularly in cost-sensitive market segments.

## **Covid-19 Impact:**

The pandemic accelerated digital transformation, intensifying demand for cloud services, streaming, and remote collaboration, which in turn increased pressure on data-center bandwidth and power budgets. Supply chain disruptions temporarily hampered photonic component availability, but the overall effect was a net positive: enterprises and hyperscalers fast-tracked infrastructure upgrades that favor optical interconnects. The crisis also underscored the importance of resilient, low-latency networks, prompting long-term investment commitments that continue to support photonic integrated computing market momentum.

The Hybrid Integration segment is expected to be the largest during the forecast period

The hybrid integration segment is anticipated to be the largest during the forecast period. Hybrid integration combines the best attributes of different material platforms such as III-V semiconductors for light generation and silicon for passive circuitry enabling high performance while leveraging established manufacturing processes. This approach allows lasers, modulators, and detectors to be optimized independently before assembly, yielding superior optical efficiency and reliability compared to monolithic alternatives. Its flexibility supports rapid prototyping and heterogeneous system design, making hybrid integration the preferred choice for complex photonic integrated circuits across telecommunications, data centers, and emerging computing applications.

The Optical Interconnects segment is expected to have the highest CAGR during the forecast period

The optical interconnects segment is estimated to have the highest growth rate during

the forecast period. Optical interconnects replace traditional electrical links with high-speed photonic connections between chips, boards, and systems, delivering dramatic improvements in bandwidth density and energy efficiency. As compute nodes become more disaggregated and memory pools expand, the need for ultra-low-latency, scalable interconnect solutions grows exponentially. Photonic interconnects enable architectures such as chiplet-based processors and rack-scale computing, which are critical for AI clusters and high-performance computing. This foundational role in next-generation system design underpins its exceptional growth trajectory.

### **Region with largest share:**

During the forecast period, the North America region is expected to hold the largest market share, driven by the presence of major technology companies, leading semiconductor foundries, and robust government research funding. The United States hosts a dense ecosystem of photonic integrated circuit startups, established fabless design houses, and hyperscale data-center operators who are early adopters of optical interconnect solutions. Collaborative initiatives between industry and academia, supported by programs like the National Photonics Initiative, accelerate commercialization and maintain the region's technological lead throughout the forecast period.

### **Region with highest CAGR:**

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, fueled by massive investments in semiconductor manufacturing infrastructure and the rapid expansion of data centers across China, Japan, and South Korea. Government-backed initiatives to achieve self-sufficiency in advanced packaging and photonics, combined with the region's dominance in consumer electronics and telecommunications equipment, create a fertile environment for adoption. As domestic cloud service providers scale their AI capabilities, demand for photonic integrated computing solutions will grow at an accelerated pace, outpacing other regions.

### **Key players in the market**

Some of the key players in Photonic Integrated Computing Market include Intel Corporation, IBM Corporation, Cisco Systems, Broadcom Inc., NVIDIA Corporation, GlobalFoundries, STMicroelectronics, Infinera Corporation, Lumentum Holdings, Coherent Corporation, Ayar Labs, Lightmatter, Lightelligence, Rockley Photonics, and Marvell Technology.

## Key Developments:

In March 2026, IBM unveiled a new blueprint for quantum-centric supercomputing, highlighting a reference architecture that integrates quantum processors (QPUs) with traditional GPUs and CPUs. This architecture relies on advanced interconnects and photonic-ready logic scaling to tackle complex scientific simulations.

In March 2026, Cisco expanded its Secure AI Factory collaboration with NVIDIA, focusing on integrated packages that simplify the deployment of photonic-based networking for large-scale enterprise AI infrastructure.

In November 2025, Intel announced a massive expansion of its patent portfolio focused on co-packaged optics (CPO) and glass substrates. The company revealed prototypes of its Optical Compute Interconnect (OCI), which utilizes a Photonic Integrated Circuit (PIC) hybrid-bonded to a glass substrate to achieve higher bandwidth and lower power consumption for future AI CPUs and GPUs.

## Integration Types Covered:

Monolithic Integration

Hybrid Integration

Module-Level Integration

## Components Covered:

Lasers

Modulators

Photodetectors

Optical Amplifiers

Multiplexers / Demultiplexers

Waveguides

Attenuators

Optical Interconnects

#### Material Platforms Covered:

Silicon Photonics

Indium Phosphide (InP)

Gallium Arsenide (GaAs)

Lithium Niobate

Silicon Nitride

Silica-on-Insulator

Other Emerging Materials

#### Computing Architectures Covered:

Optical Neural Networks (ONNs)

Photonic AI Accelerators

Analog Photonic Computing

Digital Photonic Computing

Hybrid Electronic-Photonic Computing

Quantum Photonic Computing

#### Fabrication Technologies Covered:

CMOS-Compatible Fabrication

III-V Semiconductor Fabrication

Wafer Bonding Techniques

Flip-Chip Integration

3D Photonic Integration

#### Packaging Technologies Covered:

Co-Packaged Optics

Chiplet-Based Photonic Packaging

Fiber-to-Chip Coupling

Advanced Thermal Management Solutions

#### Wavelength Ranges Covered:

Near-Infrared (NIR)

Visible Spectrum

Mid-Infrared (MIR)

#### Applications Covered:

Artificial Intelligence & Machine Learning

High-Performance Computing (HPC)

Data Centers & Cloud Computing

Telecommunications & Optical Networks

Quantum Computing Systems

Sensing & Imaging

Defense & Aerospace

Edge Computing & IoT

#### End Users Covered:

IT & Telecom Companies

Cloud Service Providers

Semiconductor & Chip Manufacturers

Research Institutes & Academia

Defense Organizations

Healthcare & Biomedical Sector

Automotive & Industrial

#### Regions Covered:

North America

United States

Canada

Mexico

## Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

## Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

### **Free Customization Offerings:**

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

#### Competitive Benchmarking

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Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

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