

Global Photonic Design Automation Software Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Photonic Design Automation Software market size was valued at US\$ 400 million in 2025 and is forecast to a readjusted size of US\$ 865 million by 2032 with a CAGR of 11.8% during review period.

Photonic Design Automation Software refers to specialized engineering software used to model, simulate, optimize, lay out, verify, and prepare photonic devices and photonic integrated circuits for fabrication. The market primarily covers electromagnetic and multiphysics solvers based on methods such as FDTD, FEM, BPM, EME, FDFD, and RCWA; photonic circuit and optical-link simulation platforms; parameterized component, compact-model, and process design kit development tools; physical-layout and automated waveguide-routing software; and photonic DRC, LVS, connectivity, and tape-out verification solutions. Advanced platforms may further support electronic-photonic co-design, thermal and packaging analysis, process-variation modeling, cloud-based computing, adjoint optimization, and inverse design. These tools evaluate optical modes, polarization, transmission, insertion loss, coupling efficiency, S-parameters, crosstalk, thermal drift, process tolerance, and system-level link behavior. Photonic Design Automation Software is mainly applied in silicon photonics, optical communications, datacenter interconnects, co-packaged optics, optical I/O, quantum photonics, photonic computing, LiDAR, integrated sensing, and active photonic-device development.

Key Findings

Device and component simulation represented approximately 34% of market revenue in 2025

Optical communications datacenter interconnect and co-packaged optics contributed roughly 39% of demand

North America remained the largest regional market while Asia Pacific accelerated local platform development

Commercial supply remained concentrated among integrated EDA groups and specialist photonics software vendors

Market Trends

Photonic Design Automation Software is shifting from fragmented, single-purpose simulation tools toward connected platforms linking device physics, circuit design, physical layout, foundry PDKs, verification, packaging, and complete optical-system behavior. Device-level accuracy remains essential, but customer purchasing decisions increasingly depend on workflow continuity, model reuse, process compatibility, and the ability to identify performance or manufacturability issues before tape-out. Cloud-native computing and GPU-accelerated solvers are shortening large three-dimensional simulation and optimization cycles, while Python-based workflows are enabling reusable components, automated regression testing, and closer integration with internal engineering systems. Inverse design, adjoint optimization, surrogate modeling, and AI-assisted design are moving from research environments into commercial products. PDK management is also becoming a strategic software layer, as foundries and designers require controlled model distribution, version management, multi-tool compatibility, fabrication-aware S-parameters, and tighter links between design, testing, and packaging. Recent product integration by major EDA groups and the emergence of end-to-end cloud platforms confirm that the long-term direction is a unified, manufacturing-aware photonic engineering environment rather than a collection of disconnected solvers.

Market Dynamics

Drivers

The principal market driver is the increasing design complexity of silicon photonics, high-speed optical transceivers, optical I/O, and co-packaged optics for AI and datacenter infrastructure. Higher bandwidth density and tighter power budgets require simultaneous analysis of electronic drivers, modulators, waveguides, photodetectors, thermal behavior, packaging, and complete optical links. Expanding foundry PDK availability is lowering the barrier to PIC development while creating demand for qualified models, layout automation, design-rule checking, and pre-tape-out verification. Growth in quantum photonics, photonic computing, integrated sensing, and heterogeneous material platforms is further broadening the required range of solvers and design methodologies. The cost of repeated fabrication cycles also supports software investment because accurate simulation and manufacturing-aware verification can reduce prototype iterations and shorten development schedules.

Restraints

Market expansion is constrained by the limited number of experienced photonic designers, the lack of complete standardization across foundry PDKs, and the difficulty of maintaining consistent models between device, circuit, layout, package, and system domains. Enterprise software licenses and large-scale electromagnetic computing can represent a substantial cost for start-ups, universities, and smaller design teams. Broader engineering platforms may also require customers to purchase multiple modules or integrate third-party tools to complete the full workflow. In addition, photonic processes, material systems, and design rules vary significantly among foundries, limiting model portability and increasing validation requirements. Open-source layout and simulation tools, internally developed software, and bundled EDA products create pricing pressure for independent point-solution vendors.

Opportunities

The most attractive opportunities are emerging in manufacturing-aware PDK automation, cloud-based photonic simulation, electronic-photonic-package co-design, and automated physical verification. Wider adoption of silicon nitride, indium phosphide, thin-film lithium niobate, heterogeneous integration, and quantum-photonic processes creates demand for new component libraries and material-specific compact models. Foundries can use digital PDK management platforms to distribute validated models across multiple design environments, control intellectual-property access, generate simulation parameters, and reduce customer support workloads. Cloud-native vendors can expand adoption through usage-based pricing and scalable computing, while

specialized suppliers can differentiate through quantum photonics, active-device TCAD, inverse design, metaoptics, or high-accuracy numerical methods. Integration of design data with automated testing and characterization also creates opportunities to establish closed-loop design, fabrication, and model-calibration workflows.

Challenges

A major industry challenge is converting rapidly evolving academic algorithms into reliable software suitable for commercial tape-out decisions. AI-assisted and inverse-design tools must produce structures that remain manufacturable, explainable, and robust against process variation rather than merely delivering optimized simulated performance. Software vendors must continuously qualify foundry PDKs, maintain compatibility with changing process rules, and support multiple EDA environments without creating inconsistent model versions. Consolidation among large EDA and engineering-software groups may improve workflow integration but could reduce interoperability or place smaller suppliers under greater commercial pressure. Long development cycles in quantum photonics, optical computing, and emerging materials also create uncertainty regarding the timing of license expansion and customer conversion.

Value Chain Analysis

The upstream portion of the Photonic Design Automation Software value chain consists of numerical algorithms, electromagnetic and multiphysics simulation technologies, high-performance computing infrastructure, GPU and cloud resources, semiconductor process data, material libraries, compact models, and foundry design rules. Universities, research institutes, foundries, packaging providers, and measurement laboratories contribute device models, validated process parameters, test data, and design methodologies. These inputs are converted into commercial software through solver development, user-interface engineering, workflow integration, PDK qualification, model calibration, verification-rule development, documentation, cybersecurity, and ongoing technical support.

The midstream market includes integrated EDA groups, multiphysics and TCAD vendors, specialist photonics software companies, cloud-native platforms, and code-driven design ecosystems. Value creation is highest where a provider can combine accurate solvers with qualified PDKs, scalable computing, layout automation, physical verification, and stable interoperability. Software development and specialist

engineering personnel account for a substantial share of operating costs, while the marginal cost of distributing an additional software license is relatively low. Downstream customers include fabless photonic-chip companies, foundries, IDMs, optical-component suppliers, hyperscalers, systems companies, design-service providers, universities, and research laboratories. Revenue is generated through perpetual licenses, annual subscriptions, enterprise floating licenses, cloud-computing consumption, maintenance, PDK services, and commercial support for open-source platforms.

Segment Insights

By product function, device and component simulation remained the largest segment, accounting for approximately 34% of 2025 market revenue. This category benefits from the need to model waveguides, couplers, modulators, photodetectors, lasers, gratings, and material interactions before circuit integration. Photonic circuit and link simulation represented approximately 21%, supported by the transition from isolated device development toward complete transceiver, optical-link, and electronic-photonic analysis. Physical layout and routing accounted for approximately 17%, while PDK and compact-model tools, verification and signoff, and multidomain co-design formed smaller but strategically important categories.

The faster-developing segments are expected to be PDK management, physical verification, cloud-native computing, inverse design, and electronic-photonic-package co-design. Device solvers remain the technical foundation, but circuit models, layout connectivity, design-rule checking, process-variation analysis, and automated tape-out preparation are gaining purchasing priority as PIC complexity and foundry participation increase. Integrated platforms are consequently capturing a greater proportion of enterprise budgets, while specialist tools remain competitive in high-accuracy simulation, active devices, emerging materials, quantum photonics, and other technically differentiated applications.

Downstream Market Opportunities

Optical communications, datacenter interconnects, and co-packaged optics represented the largest downstream demand group, contributing approximately 39% of market demand in 2025. The strongest near-term opportunity arises from the need to design higher-bandwidth and lower-power optical links for AI accelerators, switches, and computing infrastructure. Photonic-chip developers and IDMs form the second major

customer group, requiring reusable component libraries, foundry-qualified PDKs, circuit simulation, and physical verification. Quantum photonics, photonic computing, LiDAR, biosensing, microwave photonics, and integrated laser technologies provide additional opportunities, although their purchasing cycles remain more dependent on funding conditions, fabrication access, and application commercialization. Software suppliers that support multiple material platforms and connect design with testing, packaging, and manufacturing data are positioned to capture a larger share of these emerging applications.

Regional Insights

North America remained the largest regional market, supported by the concentration of leading EDA and engineering-software companies, hyperscale datacenter investment, silicon-photonics developers, optical-component suppliers, quantum-technology companies, and advanced research institutions. The region has particularly strong demand for complete electronic-photonic workflows, cloud simulation, co-packaged optics, optical I/O, and photonic computing. Europe maintains a strong position in specialist numerical solvers, multiphysics simulation, photonic PDK development, integrated-photonics research, and silicon nitride and indium phosphide ecosystems. Its supplier base contains a relatively high proportion of technically focused small and medium-sized software companies.

Asia Pacific is developing faster from a smaller commercial software base, supported by semiconductor manufacturing, optical-module production, foundry investment, and policies promoting domestic EDA capabilities. China is beginning to establish local Photonic Design Automation Software supply through domestic solver development and the acquisition of established international PDA capabilities. Japan, South Korea, and Taiwan remain important user markets because of their semiconductor, communications, display, sensing, and foundry industries, although their independent commercial PDA supplier bases remain limited. Regional opportunities will increasingly depend on local technical support, foundry PDK coverage, data-security requirements, language localization, and compatibility with domestic semiconductor-design workflows.

Competitive Landscape Analysis

The Photonic Design Automation Software market has a layered competitive structure rather than a single uniform supplier group. Large EDA and engineering-software

companies compete through broad electronic-photonics workflows, enterprise procurement relationships, physical verification, system analysis, and integration with semiconductor-design infrastructure. Specialist vendors compete through numerical accuracy, active-device modeling, photonic-circuit simulation, PDK development, code-driven layout, or support for particular material platforms. Cloud-native entrants are differentiating through scalable simulation, usage-based access, rapid optimization, and integrated foundry workflows. Strategic consolidation has accelerated: Synopsys has connected OptoCompiler with Lumerical technologies following its acquisition of Ansys; Keysight has assembled device-, circuit-, and system-level capabilities through RSoft, Photonic Designer, and VPIphotonics; and Semitronix has expanded into silicon-photonics design automation through its acquisition of Luceda. These developments are increasing competition for end-to-end platform control, while preserving opportunities for smaller suppliers in PDK automation, quantum photonics, emerging materials, inverse design, and high-accuracy specialist simulation. Future competitive advantage will depend on qualified foundry coverage, workflow interoperability, model traceability, cloud performance, and the ability to connect simulation results with fabrication and test data.

Report Scope

This report is a detailed and comprehensive analysis for global Photonic Design Automation Software market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Photonic Design Automation Software market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Photonic Design Automation Software market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Photonic Design Automation Software market size and forecasts, by Type and

by Application, in consumption value (\$ Million), 2021-2032

Global Photonic Design Automation Software market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Photonic Design Automation Software

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Photonic Design Automation Software 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 Synopsys, Inc., Keysight Technologies, Inc., Cadence Design Systems, Inc., Siemens AG, COMSOL AB, Flexcompute Inc., Semitronix Corporation, Dassault Systèmes SE, Optiwave Systems Inc., Photon Design Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Photonic Design Automation Software market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segmentation

Market segment by Type

Device and Component Modeling

Circuit and Link Simulation

Physical Layout and Routing

Others

Market segment by Product Function

Electromagnetic Solvers

Photonic Circuit Simulators

Layout Automation Tools

Others

Market segment by Deployment and Commercial Model

Desktop or Node-Locked License

Floating Enterprise License

Subscription Software

Others

Market segment by Application

Optical Communications and Datacenter Interconnect

Co-packaged Optics and Optical I/O

Quantum Photonics

Others

Market segment by players, this report covers

Synopsys, Inc.

Keysight Technologies, Inc.

Cadence Design Systems, Inc.

Siemens AG

COMSOL AB

Flexcompute Inc.

Semitronix Corporation

Dassault Systèmes SE

Optiwave Systems Inc.

Photon Design Ltd.

Silvaco Group, Inc.

JCMwave GmbH

Latitude Design Systems Pte. Ltd.

LightTrans International GmbH

Crosslight Software Inc.

PlanOpSim NV

Shanghai Xinhua Quantum Technology Co., Ltd.

BRIGHT Photonics B.V.

Wave Photonics Ltd.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

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

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Photonic Design Automation Software product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Photonic Design Automation Software, with revenue, gross margin, and global market share of Photonic Design Automation Software from 2021 to 2026.

Chapter 3, the Photonic Design Automation Software competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and

Photonic Design Automation Software market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Photonic Design Automation Software.

Chapter 13, to describe Photonic Design Automation Software research findings and conclusion.

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