

Global Photonic Quantum Integrated Circuit Chip 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 Quantum Integrated Circuit Chip market size was valued at US\$ 746 million in 2025 and is forecast to a readjusted size of US\$ 2593 million by 2032 with a CAGR of 19.5% during review period.

Photonic quantum integrated circuit chips are integrated devices that utilize photons as information carriers to realize the generation, manipulation, and measurement of quantum states within chip-level optical waveguides and micro/nano structures, enabling the execution of quantum computing and quantum information processing tasks. These chips typically integrate components such as light sources, beam splitters, phase modulators, interference structures, and single-photon detectors to achieve precise manipulation of single or entangled photons, thereby constructing quantum logic gates and quantum algorithm execution platforms. Compared to discrete optical systems, photonic quantum integrated circuits offer advantages such as small size, high stability, and strong scalability, making them one of the important technological pathways for realizing large-scale optical quantum computing.

This report is a detailed and comprehensive analysis for global Photonic Quantum Integrated Circuit Chip 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 Quantum Integrated Circuit Chip market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Photonic Quantum Integrated Circuit Chip market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Photonic Quantum Integrated Circuit Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Photonic Quantum Integrated Circuit Chip 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 Quantum Integrated Circuit Chip

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 Quantum Integrated Circuit 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 Xanadu, PsiQuantum, TuringQ Co.,Ltd., Hefei Guizhen Chip Technology Co., Ltd., Beijing QBoson Quantum Technology Co.,Ltd., QuiX Quantum, Quandela, Photonic, CHIPX, etc.

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

Market segmentation

Photonic Quantum Integrated Circuit Chip 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 segment by Type

Continuous-Variable Photonic Quantum Computing

Discrete-Variable / Single-Photon Quantum Computing

Market segment by Position In the Value Chain

Photonic Quantum Computer System Providers

Photonic Quantum Chip / Processor Developers

Market segment by Application Focus

Universal Quantum Computing

Quantum Communication & Security

Research & Industrial Prototyping

Market segment by Application

Photonic Quantum Computing

Photonic Quantum Simulation

Quantum Cloud Platform

Market segment by players, this report covers

Xanadu

PsiQuantum

TuringQ Co.,Ltd.

Hefei Guizhen Chip Technology Co., Ltd.

Beijing QBoson Quantum Technology Co.,Ltd.

QuiX Quantum

Quandela

Photonic

CHIPX

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)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Photonic Quantum Integrated Circuit Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Photonic Quantum Integrated Circuit Chip, with revenue, gross margin, and global market share of Photonic Quantum Integrated Circuit Chip from 2021 to 2026.

Chapter 3, the Photonic Quantum Integrated Circuit Chip 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 Quantum Integrated Circuit Chip 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 Quantum Integrated Circuit Chip.

Chapter 13, to describe Photonic Quantum Integrated Circuit Chip research findings and conclusion.

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