

# Global Photonic Quantum Integrated Circuit Chip Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Photonic Quantum Integrated Circuit Chip market size is expected to reach \$ 2593 million by 2032, rising at a market growth of 19.5% CAGR during the forecast period (2026-2032).

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 studies the global Photonic Quantum Integrated Circuit Chip demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photonic Quantum Integrated Circuit 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 Photonic Quantum Integrated Circuit Chip that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Photonic Quantum Integrated Circuit Chip total market, 2021-2032, (USD Million)

Global Photonic Quantum Integrated Circuit Chip total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Photonic Quantum Integrated Circuit Chip total market, key domestic companies, and share, (USD Million)

Global Photonic Quantum Integrated Circuit Chip revenue by player, revenue and market share 2021-2026, (USD Million)

Global Photonic Quantum Integrated Circuit Chip total market by Type, CAGR, 2021-2032, (USD Million)

Global Photonic Quantum Integrated Circuit Chip total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Photonic Quantum Integrated Circuit 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 Photonic Quantum Integrated Circuit Chip Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photonic Quantum Integrated Circuit Chip Market, Segmentation by Type:

Continuous-Variable Photonic Quantum Computing

Discrete-Variable / Single-Photon Quantum Computing

Global Photonic Quantum Integrated Circuit Chip Market, Segmentation by Position In the Value Chain:

Photonic Quantum Computer System Providers

Photonic Quantum Chip / Processor Developers

Global Photonic Quantum Integrated Circuit Chip Market, Segmentation by Application Focus:

Universal Quantum Computing

Quantum Communication & Security

Research & Industrial Prototyping

Global Photonic Quantum Integrated Circuit Chip Market, Segmentation by Application:

Photonic Quantum Computing

Photonic Quantum Simulation

Quantum Cloud Platform

#### Companies Profiled:

Xanadu

PsiQuantum

TuringQ Co.,Ltd.

Hefei Guizhen Chip Technology Co., Ltd.

Beijing QBoson Quantum Technology Co.,Ltd.

QuiX Quantum

Quandela

Photonic

CHIPX

#### Key Questions Answered

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

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