

Global Photonic Quantum Integrated Circuit Chip Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Photonic Quantum Integrated Circuit Chip market size is predicted to grow from US\$ 709 million in 2025 to US\$ 2620 million in 2032; it is expected to grow at a CAGR of 20.7% from 2026 to 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.

United States market for Photonic Quantum Integrated Circuit Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Photonic Quantum Integrated Circuit Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Photonic Quantum Integrated Circuit Chip is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through

2032.

Global key Photonic Quantum Integrated Circuit Chip players cover Xanadu, PsiQuantum, TuringQ Co.,Ltd., Hefei Guizhen Chip Technology Co., Ltd., Beijing QBoson Quantum Technology Co.,Ltd., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the 'Photonic Quantum Integrated Circuit Chip Industry Forecast' looks at past sales and reviews total world Photonic Quantum Integrated Circuit Chip sales in 2025, providing a comprehensive analysis by region and market sector of projected Photonic Quantum Integrated Circuit Chip sales for 2026 through 2032. With Photonic Quantum Integrated Circuit Chip sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Photonic Quantum Integrated Circuit Chip industry.

This Insight Report provides a comprehensive analysis of the global Photonic Quantum Integrated Circuit Chip landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Photonic Quantum Integrated Circuit Chip portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Photonic Quantum Integrated Circuit Chip market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Photonic Quantum Integrated Circuit Chip and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Photonic Quantum Integrated Circuit Chip.

This report presents a comprehensive overview, market shares, and growth opportunities of Photonic Quantum Integrated Circuit Chip market by product type, application, key players and key regions and countries.

Segmentation by Type:

Continuous-Variable Photonic Quantum Computing

Discrete-Variable / Single-Photon Quantum Computing

Segmentation by Position In the Value Chain:

Photonic Quantum Computer System Providers

Photonic Quantum Chip / Processor Developers

Segmentation by Application Focus:

Universal Quantum Computing

Quantum Communication & Security

Research & Industrial Prototyping

Segmentation by Application:

Photonic Quantum Computing

Photonic Quantum Simulation

Quantum Cloud Platform

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Xanadu

PsiQuantum

TuringQ Co.,Ltd.

Hefei Guizhen Chip Technology Co., Ltd.

Beijing QBoson Quantum Technology Co.,Ltd.

QuiX Quantum

Quandela

Photonic

CHIPX

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