

Global Photonic IC Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Photonic IC market size will reach 2,335.01 Million USD in 2025 and is projected to reach 8,250.33 Million USD by 2032, with a CAGR of 19.76% (2025-2032). Notably, the China Photonic IC market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A photonic integrated circuit (PIC) is a compact and integrated device that combines multiple photonic components on a single chip, similar to how electronic integrated circuits combine various electronic components. These photonic components can include lasers, modulators, detectors, waveguides, and other optical elements. Photonic integrated circuits are designed to manipulate and control light for various applications in telecommunications, data communications, sensing, and signal processing. The integration of multiple functions on a single chip enables enhanced performance, reduced power consumption, and improved scalability in comparison to traditional discrete optical components. PICs play a crucial role in advancing optical communication systems, enabling higher bandwidths, faster data transfer rates, and more efficient signal processing in optical networks.

The major global manufacturers of Photonic IC include Infinera, Alcatel-Lucent, Avago, NeoPhotonics, ??, Cisco, Ciena, Intel, Oclaro, JDS Uniphase, Finisar, Luxtera, Mellanox, OneChip, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command

a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Photonic IC. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Photonic IC market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Photonic IC market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Photonic IC industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Photonic IC Include:

Infinera

Alcatel-Lucent

Avago

NeoPhotonics

??

Cisco

Ciena

Intel

Oclaro

JDS Uniphase

Finisar

Luxtera

Mellanox

OneChip

Photonic IC Product Segment Include:

Monolithic Integration

Hybrid Integration

Module Integration

Photonic IC Product Application Include:

Optical Communication

Sensing

Biophotonics

Others

Chapter Scope

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