

Global Silicon Photonics IC Testing Machine Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Photonics IC Testing Machine market size was valued at US\$ 159 million in 2025 and is forecast to a readjusted size of US\$ 858 million by 2032 with a CAGR of 27.5% during review period.

Silicon photonic IC is a technology that uses silicon-based materials to manufacture optical components. These chips process optical signals on tiny silicon wafers, making data transmission faster, more efficient and using less energy. In the field of optical communications, silicon photonic IC can achieve higher bandwidth and longer transmission distances while reducing costs and energy consumption, greatly promoting the development of data centers and communication networks.

In the silicon photonic IC, the main components include light generation, routing, modulation, processing and detection. Its core components mainly include: lasers, optical modulators, optical detectors, multiplexing devices, optical waveguides, grating couplers, etc.

The testing of silicon photonics mainly includes the testing of its optical and electrical performance. The testing is mainly divided into two stages: wafer-level testing and module-level performance testing after packaging. Wafer-level testing refers to the testing and screening of each unit or sub-unit on the wafer with the help of a probe station after the wafer production is completed; module-level performance testing after packaging, when the device is packaged into a module, it is necessary to verify the performance of the module's transmitter and receiver at different ambient temperatures and compliance with relevant specifications. These tests are performed when sending or receiving optical/electrical signals at normal rates, and must strictly refer to relevant

specifications. This article only counts the equipment for wafer-level testing.

The silicon photonics IC testing machine is a kind of optoelectronic testing equipment specially used to test the performance and function of silicon photonic ICs. It uses high-precision photoelectric probe stations, error code testers and other components to test the electro-optical conversion efficiency and signal of silicon photonic ICs. Key parameters such as modulation quality and receiving sensitivity are accurately measured to ensure that the chip meets the performance requirements in the field of high-speed optical communications. The machine is characterized by its high integration, high-precision alignment technology and automated testing capabilities, which can significantly improve testing efficiency and accuracy. Its benefits are that it can reduce production costs and shorten the research and development cycle, and its superiority is reflected in the comprehensive detection and rapid diagnosis of chip performance provide strong technical support for the industrialization process of world's silicon photonic chips and the independent innovation of the optoelectronics industry.

Silicon photonic ICs include manual and automatic test equipment. At present, most end customers use automatic test equipment. In 2023, automatic test equipment accounted for 85% of the market share. It is expected that as silicon photonic wafers develop towards 12 inches in the future, silicon photonic IC automated test equipment will still occupy a major position, and by 2030, the share will reach 93%.

Silicon photonic IC test equipment mainly works on silicon photonic wafers. The current mainstream silicon photonic wafers are 8 inches, and there are relatively few companies involved in 12 inches. The terminal applications are in the data communication and telecommunications markets. In 2023, data communication is the largest silicon photonic chip market, accounting for 88.17% of the market share. It is expected to continue to occupy a major position in the future. The main factor driving this growth is the 800G pluggable optical module used for high-speed data center interconnection and machine learning that requires higher throughput and lower latency.

This report is a detailed and comprehensive analysis for global Silicon Photonics IC Testing Machine market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Silicon Photonics IC Testing Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Silicon Photonics IC Testing Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Silicon Photonics IC Testing Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Silicon Photonics IC Testing Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 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 Silicon Photonics IC Testing Machine

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 Silicon Photonics IC Testing Machine market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include FormFactor, Aehr Test System, Suzhou Eoulu, MPI Corporation, Suzhou Semight Instruments, Keysight, STAr Technologies, FIBERPRO, Wuhan Eternal Technologies, Shenzhen Brightas Communication Equipment, etc.

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

Market Segmentation

Silicon Photonics IC Testing Machine 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 in terms of volume and

value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Manual

Automated

Market segment by Application

Datacom

Telecom

Others

Major players covered

FormFactor

Aehr Test System

Suzhou Eoulu

MPI Corporation

Suzhou Semight Instruments

Keysight

STAr Technologies

FIBERPRO

Wuhan Eternal Technologies

Shenzhen Brightas Communication Equipment

Suzhou Chengrui Technology

Shanghai Everise Electronic Technology

Axis Technologies

Micromanipulator

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Silicon Photonics IC Testing Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Photonics IC Testing Machine, with price, sales quantity, revenue, and global market share of Silicon Photonics IC Testing Machine from 2021 to 2026.

Chapter 3, the Silicon Photonics IC Testing Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Photonics IC Testing Machine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Silicon Photonics IC Testing Machine market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Silicon Photonics IC Testing Machine.

Chapter 14 and 15, to describe Silicon Photonics IC Testing Machine sales channel, distributors, customers, research findings and conclusion.

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