

Global Silicon Photonics Test System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon Photonics Test System market size is expected to reach \$ 982 million by 2032, rising at a market growth of 28.9% CAGR during the forecast period (2026-2032).

Silicon Photonics Test System refers to an integrated optoelectronic test platform used to characterize, screen and validate silicon photonics integrated circuits, devices or assemblies across different process stages, including wafer-level, die-level and package-level testing. The system typically integrates a high-precision probe station or positioning platform, optical fiber or fiber-array alignment modules, electrical and RF probing units, tunable lasers, optical power meters, polarization control, source-measure units, vector network analyzers, bit-error-rate testers, machine vision, test automation software and data acquisition systems.

It is used to couple optical signals into and out of silicon photonics devices through grating couplers, edge couplers or other optical interfaces, while simultaneously applying electrical or RF signals to modulators, photodetectors, heaters, drivers or related test structures. Typical test parameters include insertion loss, return loss, polarization-dependent loss, wavelength response, responsivity, dark current, modulation bandwidth, S-parameters, eye diagrams, bit-error rate, optical power stability and device-level yield. In commercial equipment market sizing, however, most system-level offerings are centered on wafer-level or on-wafer testing before dicing and packaging.

The silicon photonics test system market is moving from a research- and engineering-validation-oriented equipment segment toward a wafer-level production screening market. Its core growth driver is no longer limited to conventional optical communication

testing, but increasingly comes from AI data centers, CPO/Optical I/O, high-speed optical interconnects and silicon photonics foundry platforms, all of which require wafer-level yield control, known-good-die pre-screening and high-throughput electro-optical test capability. Unlike traditional optical module testing, silicon photonics testing is moving upstream to the wafer stage, before dicing and packaging. At this stage, the system needs to measure optical, electrical, RF and electro-optical parameters directly on the wafer through a wafer prober, optical fiber or fiber-array alignment unit, electrical/RF probes, optical instruments, wafer-map software and automated test execution.

From a product perspective, the core of the system is usually a probe station or wafer prober, combined with grating-coupling, edge-coupling or vertical-coupling capability. The testing process must support precise optical coupling, low-loss signal transmission, repeatable probe positioning, wafer-map-based automatic addressing, and synchronized optical/electrical data acquisition. Typical test items include insertion loss, return loss, polarization-dependent loss, wavelength response, responsivity, dark current, modulation bandwidth, S-parameters, eye diagrams, bit-error rate and die-level yield. The technical barrier of this market does not lie in a single instrument, but in the integration of precision motion control, optical alignment, semiconductor probing, high-speed electrical/RF testing and automated data management.

On the supply side, the market is characterized by the participation of several types of vendors: semiconductor probe station manufacturers, electro-optical test instrument suppliers, photonics automation equipment companies and local system integrators. FormFactor and MPI are strong in wafer probing platforms, wafer handling and high-precision probe systems. Keysight and Teradyne have advantages in test instruments, ATE platforms, high-speed measurement and production test software ecosystems. ficonTEC and FIBERPRO focus more on photonic automation, active optical alignment, fiber-array coupling and customized electro-optical test cells. Chinese suppliers such as Semight, Eoulu, Eternal Technologies, YANMADE, GBITEST, Sunyu Photonics, Chengrui Technology and EoneSemi are entering the market through wafer-level optical coupling, probe platform integration, automated test software and customized system delivery.

Overall, the value proposition of silicon photonics test systems is shifting from ?whether the system can measure electro-optical parameters? to ?whether it can perform stable, repeatable and high-throughput wafer-level screening and yield feedback.? As silicon photonics moves toward volume manufacturing, especially in AI data center and CPO-related applications, the competitive focus will increasingly concentrate on 300 mm

compatibility, full automation, ATE integration, multi-channel fiber-array coupling, edge/grating coupling compatibility, optical alignment speed, measurement repeatability and production data traceability. In this context, wafer-level silicon photonics test systems are becoming a critical enabling tool for silicon photonics industrialization, rather than a peripheral laboratory test platform.

This report studies the global Silicon Photonics Test System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicon Photonics Test System 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 Silicon Photonics Test System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicon Photonics Test System total production and demand, 2021-2032, (Units)
Global Silicon Photonics Test System total production value, 2021-2032, (USD Million)
Global Silicon Photonics Test System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Silicon Photonics Test System consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Silicon Photonics Test System domestic production, consumption, key domestic manufacturers and share
Global Silicon Photonics Test System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Silicon Photonics Test System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Silicon Photonics Test System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Silicon Photonics Test System market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Silicon Photonics Test System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, 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 Silicon Photonics Test System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicon Photonics Test System Market, Segmentation by Type:

200 mm Silicon Photonics Wafer Test Systems

300 mm Silicon Photonics Wafer Test Systems

Others

Global Silicon Photonics Test System Market, Segmentation by Application:

Data Center Optical Interconnect

Telecom & Optical Communication

SiPh Foundry & Wafer Manufacturing

Advanced Packaging & OSAT

Quantum Photonics & Research

Others

Companies Profiled:

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

ficonTEC

Shenzhen Yanmade Technology (AxisTec)

Shenzhen GBITEST

Sunyu Photonics

Shanghai Everise Electronic Technology

Changsha EoneSemi

Key Questions Answered:

1. How big is the global Silicon Photonics Test System market?
2. What is the demand of the global Silicon Photonics Test System market?
3. What is the year over year growth of the global Silicon Photonics Test System market?
4. What is the production and production value of the global Silicon Photonics Test System market?
5. Who are the key producers in the global Silicon Photonics Test System market?
6. What are the growth factors driving the market demand?

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