

Global Indium Phosphide Substrate for Data Centers Market Growth 2026-2032

<https://marketpublishers.com/r/G1AE8801D172EN.html>

Date: July 2026

Pages: 101

Price: US\$ 3,660.00 (Single User License)

ID: G1AE8801D172EN

Abstracts

The global Indium Phosphide Substrate for Data Centers market size is predicted to grow from US\$ 819 million in 2025 to US\$ 1788 million in 2032; it is expected to grow at a CAGR of 11.9% from 2026 to 2032.

Indium phosphide substrates for data centers refer to semiconductor substrate wafers made from single-crystal indium phosphide (InP). They are specifically designed for manufacturing high-speed optoelectronic and high-frequency radio frequency devices, serving as a core material in high-speed optical communication and high-speed interconnect systems within data centers.

The upstream of the industry chain mainly includes suppliers of high-purity phosphorus and indium raw materials, as well as key equipment and material suppliers such as single crystal growth equipment (e.g., VGF, LEC crystal growth furnaces), high-purity quartz crucibles, and precision temperature control systems. These links determine the crystal defect density, uniformity, and yield. The midstream is the indium phosphide substrate manufacturing process, encompassing crystal growth, slicing, polishing, pre-epitaxy processing, and sorting. The core is the preparation of high-purity, low-defect InP single crystal substrates and epitaxial wafers that meet the requirements of optical communication devices, used in subsequent laser and high-speed optoelectronic device manufacturing. The downstream is mainly used in high-speed optical communication in data centers, including 400G/800G/1.6T optical modules, coherent optical communication systems, silicon photonics hybrid integrated devices, and high-speed optoelectronic integrated circuits (PICs), ultimately serving AI computing centers, hyperscale data centers, and high-speed network interconnection scenarios. It is one of the key basic materials supporting next-generation high-speed optical interconnects.

In 2025, the global sales volume of indium phosphide substrates for data centers will reach 364,000 pieces, with a production capacity of approximately 520,000 pieces. The average selling price is US\$2,300 per piece, and the average gross profit margin is 30%-40%.

Global investment in AI infrastructure and high-speed communication networks continues to increase, driving rapid upgrades to data center optical interconnects. Meanwhile, countries are placing greater emphasis on the security of the semiconductor key materials supply chain, with III-V compound semiconductors such as InP being included in their high-end materials strategic plans. Companies in Europe, the US, and Japan are continuously increasing capital expenditures to expand their optical communication materials production capacity; however, due to high technological barriers, supply elasticity remains limited in the short term, resulting in an industry characterized by 'rapid demand growth + rigid supply constraints.'

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Indium Phosphide Substrate for Data Centers 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 Indium Phosphide

Substrate for Data Centers.

This report presents a comprehensive overview, market shares, and growth opportunities of Indium Phosphide Substrate for Data Centers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

N-Type InP

P-Type InP

Segmentation by Wafer Size:

2 Inches

3 Inches

4 Inches

6 Inches

Segmentation by Subsequent Process Forms:

Polished Wafer

Epiaxial Wafer

Segmentation by Application:

High-Speed Optical Modules

Coherent Optical Communication Systems

Silicon Photonic Hybrid Integrated Devices

Photonic Integrated Circuits

Others

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 analysing the company's coverage, product portfolio, its market penetration.

Sumitomo

AXT

JX Advanced Metals

InPACT

Wafer Tech

Yunnan Germanium Industry

Lead Technology

Zhuhai Dingtai Chip Source

GRINM Advanced Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Indium Phosphide Substrate for Data Centers market?

What factors are driving Indium Phosphide Substrate for Data Centers market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Indium Phosphide Substrate for Data Centers market opportunities vary by end market size?

How does Indium Phosphide Substrate for Data Centers break out by Type, by Application?

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