

# Global AI Computing Power Indium Phosphide Market Growth 2025-2031

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## Abstracts

The global AI Computing Power Indium Phosphide market size is predicted to grow from US\$ 529 million in 2025 to US\$ 1064 million in 2031; it is expected to grow at a CAGR of 12.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Indium Phosphide (InP) plays a crucial role in enabling high-speed, high-efficiency data transmission essential for AI computing power infrastructure, especially in data centers, AI accelerators, and optical interconnects. As AI workloads grow exponentially—driven by large language models, real-time inference, and multi-modal data—traditional copper-based electrical interconnects face bandwidth and power limitations. InP-based photonic devices offer a solution by delivering ultra-fast, energy-efficient optical communication.

United States market for AI Computing Power Indium Phosphide is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for AI Computing Power Indium Phosphide is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for AI Computing Power Indium Phosphide is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key AI Computing Power Indium Phosphide players cover Sumitomo Electric, JX Nippon Mining & Metals, Beijing Tongmei Xtal Technology (AXT), Coherent, Zhuhai DT Wafer-Tech, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "AI Computing Power Indium Phosphide Industry Forecast" looks at past sales and reviews total world AI Computing Power Indium Phosphide sales in 2024, providing a comprehensive analysis by region and market sector of projected AI Computing Power Indium Phosphide sales for 2025 through 2031. With AI Computing Power Indium Phosphide sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Computing Power Indium Phosphide industry.

This Insight Report provides a comprehensive analysis of the global AI Computing Power Indium Phosphide 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 AI Computing Power Indium Phosphide portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Computing Power Indium Phosphide market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Computing Power Indium Phosphide 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 AI Computing Power Indium Phosphide.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Computing Power Indium Phosphide market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

4 inches

6 inches

Segmentation by Application:

Optical Communication

AI Data Center

AI Chip Interconnection

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 Electric

JX Nippon Mining & Metals

Beijing Tongmei Xtal Technology (AXT)

Coherent

Zhuhai DT Wafer-Tech

Yunnan Lincang Xinyuan Germanium

Guangdong Pingrui Semiconductor

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Computing Power Indium Phosphide market?

What factors are driving AI Computing Power Indium Phosphide market growth, globally and by region?

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

How do AI Computing Power Indium Phosphide market opportunities vary by end market size?

How does AI Computing Power Indium Phosphide break out by Type, by Application?

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