

Global AI Indium Phosphide (InP) Substrate Market Growth 2025-2031

<https://marketpublishers.com/r/G8135C37B2DBEN.html>

Date: August 2025

Pages: 95

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

ID: G8135C37B2DBEN

Abstracts

The global AI Indium Phosphide (InP) Substrate market size is predicted to grow from US\$ 166 million in 2025 to US\$ 273 million in 2031; it is expected to grow at a CAGR of 8.6% 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.

AI Indium Phosphide (InP) Substrate refers to the use of Indium Phosphide (InP) semiconductor substrates in artificial intelligence (AI)-related applications, particularly in high-speed, high-frequency, and optoelectronic devices that support AI infrastructure such as data centers, photonic computing, and advanced communication systems.

United States market for AI Indium Phosphide (InP) Substrate 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 Indium Phosphide (InP) Substrate 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 Indium Phosphide (InP) Substrate 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 Indium Phosphide (InP) Substrate players cover Sumitomo Electric, JX Advanced 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 Indium Phosphide (InP) Substrate Industry Forecast” looks at past sales and reviews total world AI Indium Phosphide (InP) Substrate sales in 2024, providing a comprehensive analysis by region and market sector of projected AI Indium Phosphide (InP) Substrate sales for 2025 through 2031. With AI Indium Phosphide (InP) Substrate sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Indium Phosphide (InP) Substrate industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Indium Phosphide (InP) Substrate 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 Indium Phosphide (InP) Substrate.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Indium Phosphide (InP) Substrate 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 Advanced 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 Al Indium Phosphide (InP) Substrate market?

What factors are driving Al Indium Phosphide (InP) Substrate market growth, globally and by region?

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

How do Al Indium Phosphide (InP) Substrate market opportunities vary by end market size?

How does Al Indium Phosphide (InP) Substrate break out by Type, by Application?

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