

# Global 2D Electronics and Automation Market Growth 2024-2030

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## Abstracts

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2D Electronics and Automation refer to electronic devices or components that are only a few atoms thick, rather than the bulky traditional electronics that we are familiar with.

The global 2D Electronics and Automation market size is projected to grow from US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of % from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the “2D Electronics and Automation Industry Forecast” looks at past sales and reviews total world 2D Electronics and Automation sales in 2023, providing a comprehensive analysis by region and market sector of projected 2D Electronics and Automation sales for 2024 through 2030. With 2D Electronics and Automation sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 2D Electronics and Automation industry.

This Insight Report provides a comprehensive analysis of the global 2D Electronics and Automation 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 2D Electronics and Automation portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 2D Electronics and Automation market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for 2D Electronics and Automation 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 2D Electronics and Automation.

These 2D materials, such as graphene or molybdenum disulfide, have unique electrical properties due to their thinness, making them promising for various applications in electronics. One example of a 2D electronic device is a transistor, which is a fundamental building block of modern electronics. In traditional transistors, the flow of electrical current is controlled by a gate electrode that alters the conductivity of a semiconductor material. However, in 2D transistors, the gate electrode is made of a thin layer of a 2D material, allowing for more precise control of the current flow. Other applications of 2D electronics include flexible or wearable devices, as the thinness of the materials enables them to be easily integrated into flexible substrates. This opens up possibilities for new form factors in electronics, such as bendable displays or wearable health monitoring devices. 2D materials can exhibit unique optical properties, allowing them to be used in optoelectronics applications. For instance, they can be used to create ultra-thin photodetectors or efficient light-emitting devices.

This report presents a comprehensive overview, market shares, and growth opportunities of 2D Electronics and Automation market by product type, application, key manufacturers and key regions and countries.

#### Segmentation by Type:

Electronic

Optoelectronic

#### Segmentation by Application:

Biomolecular Sensing

Optical Communications,

Solar Cells

## Security Display

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.

Aledia

2D Semiconductors

2D Electronic and Automation

Graphene Laboratories

Haydale

Sanko Semiconductor

Skeleton Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global 2D Electronics and Automation market?

What factors are driving 2D Electronics and Automation market growth, globally and by region?

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

How do 2D Electronics and Automation market opportunities vary by end market size?

How does 2D Electronics and Automation break out by Type, by Application?

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