

Global Rigid-flex Printed Circuit Boards (PCBs) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Rigid-flex Printed Circuit Boards (PCBs) market size was valued at US\$ 2423 million in 2023 and is forecast to a readjusted size of USD 3121 million by 2030 with a CAGR of 3.9% during review period.

A rigid-flex PCB combines the flexibility of flex circuits with the durability of a rigid PCB. A flex-printed circuit board has only flexible materials, usually polyimide or polyester-based. They can be single-layer, double-layer or multilayer boards.

Rigid flex circuits are a hybrid structure of rigid and flexible PCBs. Rigid and flexible circuits are integrated into a unitary interconnection structure to gain special advantages. The structures can vary widely in terms of materials and layout but in general, the most common materials are polyimide for the flexible circuit portions and FR4 or polyimide laminates for the rigid portions.

The driving factors of the rigid-flex PCB (i.e., rigid-flexible printed circuit board) market can be summarized as follows:

Technological innovation and product upgrade

Application of new materials: With the advancement of materials science, new materials such as high-performance copper-clad laminates and conductive adhesives are widely used in the production of rigid-flex PCBs. These materials not only improve the performance of circuit boards, but also reduce production costs, promoting the rapid development of the rigid-flex PCB market.

Improvement of manufacturing process: The continuous optimization of manufacturing processes such as drilling, molding, and electroplating has significantly improved the production efficiency and quality of rigid-flex PCBs, meeting the market demand for high-performance and high-reliability electronic products.

Growing market demand

Consumer electronics market: The popularity of consumer electronics products such as smartphones, tablets, and wearable devices has promoted the rapid growth of the rigid-flex PCB market. These products have put forward higher requirements for the flexibility, reliability, and lightweight of circuit boards, and rigid-flex PCBs just meet these requirements.

Automotive electronics market: With the improvement of the degree of automotive electronics, more and more automotive electronic systems have begun to adopt rigid-flex PCBs to improve the reliability and stability of the system. Therefore, the rapid development of the automotive electronics market has brought new growth points to the rigid-flex PCB market.

Other professional fields: In the fields of medical electronics, aerospace, industrial control, etc., rigid-flex PCB is also widely used due to its unique performance advantages. The rapid development of these fields has further promoted the growth of the rigid-flex PCB market.

Policy support and industrial development

Policy support: The attention and support of governments of various countries to the electronics industry have provided a good policy environment for the development of the rigid-flex PCB industry. For example, the Chinese government clearly proposed in the "13th Five-Year Plan" to accelerate the development of the electronic information industry and promote the research and development and industrialization of key basic materials such as PCB materials.

Collaborative development of the industrial chain: With the rapid development of the global electronics industry, rigid-flex PCB suppliers need to establish close cooperative relations with upstream and downstream companies to achieve resource sharing and complementary advantages. Through supply chain collaboration, production costs can be reduced, product quality and delivery efficiency can be improved, and the overall competitiveness of the industry can be enhanced.

Environmental protection and sustainable development

Environmental protection regulations: With the increase of environmental awareness, countries are also constantly improving the environmental performance requirements of electronic products. As an environmentally friendly electronic product, rigid-flex PCB is in line with the current environmental protection trend and is therefore favored by the market.

Sustainable development: Many environmentally friendly materials and processes are used in the manufacturing process of rigid-flex PCB, which reduces pollution to the environment. At the same time, due to its long service life and high reliability, it also reduces the frequency of discarding and replacing electronic products, which is conducive to resource conservation and environmental protection.

In summary, the driving factors of the rigid-flex PCB market mainly include technological

innovation and product upgrades, market demand growth, policy support and industrial development, and environmental protection and sustainable development. These factors have jointly promoted the rapid development of the rigid-flex PCB market and laid a solid foundation for its future development.

This report is a detailed and comprehensive analysis for global Rigid-flex Printed Circuit Boards (PCBs) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global Rigid-flex Printed Circuit Boards (PCBs) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2019-2030

Global Rigid-flex Printed Circuit Boards (PCBs) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2019-2030

Global Rigid-flex Printed Circuit Boards (PCBs) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2019-2030

Global Rigid-flex Printed Circuit Boards (PCBs) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/Unit), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Rigid-flex Printed Circuit Boards (PCBs)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Rigid-flex Printed Circuit Boards (PCBs) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments.

Key companies covered as a part of this study include Nippon Mektron, Unimicron, Young Poong Group, Samsung Electro-Mechanics, Nanya PCB, Compeq, Ibiden, TTM,

Shennan Circuits, CMK Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Rigid-flex Printed Circuit Boards (PCBs) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Single Layer
- Double Layer
- Multi-Layer

Market segment by Application

- Military and Aerospace
- Medical
- Consumer Devices
- Others

Major players covered

- Nippon Mektron
- Unimicron
- Young Poong Group
- Samsung Electro-Mechanics
- Nanya PCB
- Compeq
- Ibiden
- TTM
- Shennan Circuits
- CMK Corporation
- Kingboard
- AT&S
- Redboard
- Wuzhu Group
- NCAB Group

- Shenzhen Kinwong Electronics
- Zhen Ding Technology
- Dongshan Precision Manufacturing
- COMPEQ
- HannStar Board Corp

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Rigid-flex Printed Circuit Boards (PCBs) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Rigid-flex Printed Circuit Boards (PCBs), with price, sales quantity, revenue, and global market share of Rigid-flex Printed Circuit Boards (PCBs) from 2019 to 2024.

Chapter 3, the Rigid-flex Printed Circuit Boards (PCBs) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Rigid-flex Printed Circuit Boards (PCBs) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024. and Rigid-flex Printed Circuit Boards (PCBs) market forecast, by regions, by

Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Rigid-flex Printed Circuit Boards (PCBs).

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