

## **Europe Printed Circuit Board Market Forecast 2024-2032**

Market Report | 2024-08-12 | 147 pages | Inkwood Research

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### **Report description:**

#### **KEY FINDINGS**

The Europe printed circuit board market is forecasted to progress with a CAGR of 3.67% during the projection period of 2024 to 2032. The region's printed circuit board (PCB) market has experienced considerable evolution over the past decade, driven largely by the increasing demand for consumer electronic products.

#### **MARKET INSIGHTS**

Technological advancements, including the development of multilayer and hybrid PCBs, have significantly contributed to the market's growth, as well, with PCB manufacturing in Europe supported by a robust network of key players. Moreover, the surge in the use of smartphones, tablets, personal computers, fixed-line telephones, and laptops has directly influenced the expansion of the Europe PCB market, as these boards are essential components in virtually all electronic devices.

#### **REGIONAL ANALYSIS**

The Europe printed circuit board market growth assessment includes the evaluation of the United Kingdom, Germany, France, Italy, Spain, Nordic Countries, and Rest of Europe. Printed circuit boards serve as the foundation for a vast array of electronic products, ranging from consumer electronics such as smartphones, laptops, televisions, and refrigerators to specialized commercial products, including data communication systems and computer servers. Aligning with this, the United Kingdom's printed circuit board (PCB) market is significantly driven by a diverse landscape of mid-size and small-scale manufacturers. The continuous expansion of the electronics and IT sectors in the nation is further fueling this diversity.

In terms of electronic waste, the United Kingdom generates over 1.6 million tonnes of e-waste annually, with a substantial portion-764,000 tons-stemming from large household appliances and consumer electronics such as smartphones, laptops, and televisions. This waste, which includes hazardous and toxic components, poses significant environmental risks. In response, the United Kingdom has introduced various regulations aimed at minimizing waste from electrical and electronic equipment (WEEE) and promoting reuse and recycling. Furthermore, the Environment Agency of the UK also oversees the regulatory framework for electronic waste management.

On the other hand, similar to sectors such as aerospace, automotive, and medical, the consumer electronics market in France is rapidly evolving due to its extensive applications across different industries. For instance, in the defense sector, printed circuit boards (PCBs) are integral to radar monitoring and armored vehicle control systems, whereas in the medical sector, PCBs are employed in diagnostic equipment, including digital X-rays and dental devices. Additionally, in logistics, PCBs play a crucial role in GPS control. France, a leading manufacturer of advanced military weapons and fighter jets, relies on PCBs for specific tracking and

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security control systems essential to these applications. These factors, in turn, are positioned to play a pivotal role in augmenting the Europe printed circuit board market growth during the forecast period.

#### SEGMENTATION ANALYSIS

The Europe printed circuit board market is segmented into raw material, substrate, and application. The application segment includes communications, consumer electronics, industrial electronics, automotive, military, and other applications. Printed circuit boards (PCBs) play a critical role in various automotive applications and are essential for the proper functioning of systems such as ABS, GPS and navigation, and ECU systems.

Additionally, PCBs are used in power relays, remote controls, diagnostic systems, LED brake lights, security systems, engine timing and monitoring systems, among others. These enhance the reliability and performance of vehicles by supporting sensors and interconnecting all electronic components. The automotive PCB market's notable growth is driven by increasing security features in vehicles and rising demand for additional automotive accessories. The segment's expansion is further influenced by the rapid integration of electronic systems in vehicles, though the high cost of these components remains a significant growth restraint.

#### COMPETITIVE INSIGHTS

Key players operating in the Europe printed circuit board market are Daeduck Electronics, Epitome Components Ltd, HannStar Board Corporation, Ibiden Inc, etc.

Ibiden Inc, headquartered in Japan, specializes in the manufacture, design, and sale of electronic products. The company operates through subsidiaries across the United States, Austria, Hungary, France, the Netherlands, Mexico, Korea, Singapore, China, Malaysia, the Philippines, and Taiwan. Its product offerings include FVSS, e-flux, build-up substrates, build-up CSP, and flip-chip packages.

The company has invested significantly in research and development, with a strong focus on advancing technologies such as ultra-fine patterning, high-temperature sintering, and fine bump forming. Over the last two decades, Ibiden has been actively researching substrates, leveraging its expertise in fine bump forming and ultra-fine patterning technologies. The company maintains a strong presence globally, including in Europe and the United States.

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