

# **Multilayer Printed Circuit Board Market By Layer (Layer 4-6, Layer 6+), By Substrate (Rigid, Flexible, Rigid-Flex) By End Use Industry (Industrial Electronics, Healthcare, Aerospace & Defense, Automotive, IT & Telecom, Consumer Electronics, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2032**

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## **Abstracts**

### Multilayer Printed Circuit Board Market

The multilayer printed circuit board market was valued at \$88.1 billion in 2023, and is projected to reach \$144.7 billion by 2032, growing at a CAGR of 5.7% from 2024 to 2032.

A multilayer printed circuit board (PCB) is a sophisticated structure integrated in electronic devices to increase the available area for wiring via insulating materials and multiple layers of conductive copper pathways. Multilayer PCBs differ from the conventional single-layer PCBs as the former stacks different independent circuit layers via intricate lamination processes. These boards are crucial for complex electronics as they lodge more circuits in a compact space, refine noise reduction, and enhance signal integrity.

With increasing adoption of consumer electronics such as smartphones, laptops, and wearable devices, the demand for multilayer PCB is rising substantially. In addition, the expansion of telecommunication infrastructure and rollout of 5G networks is driving the growth of the multilayer printed circuit board market. The adoption of microvia technology is a prominent trend gaining popularity in the market. Microvia is a small,

drilled hole which elevates the performance of PCBs by facilitating interconnections, improving heat dissipation, and enabling complex routing & finer pitch components.

However, multilayer PCBs witness strong competition from alternative technologies, including flexible PCBs and organic PCBs. This competitive landscape hinders the development of the multilayer printed circuit board market. Moreover, the high expense associated with the procurement of raw materials and the production of PCBs restrains market growth. Contrarily, the establishment of initiatives and roadmaps by various organizations toward the development of multilayer PCBs are anticipated to open new avenues for the market expansion. For instance, the European Union launched a Multilayer PCB Development Initiative on January 2023. This initiative involves the allocation of funds to expand the manufacturing capabilities for multilayer PCB across member states.

## Segment Review

The multilayer printed circuit board market is segmented by layer, substrate, end use industry, and region. On the basis of layer, the market is bifurcated into layer 4-6 and layer 6+. As per substrate, it is divided into rigid, flexible, and rigid-flex. According to end-use industry, it is classified into industrial electronics, healthcare, aerospace & defense, automotive, IT & telecom, consumer electronics, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

On the basis of layer, the layer 4-6 segment dominated the market in 2023.

As per substrate, the rigid segment was the highest shareholder in 2023.

According to end-use industry, consumer electronics segment acquired a high stake in the market in 2023.

Region wise, Asia-Pacific was the highest revenue generator in 2023.

## Competition Analysis

The leading players operating in the global multilayer printed circuit board market

include Sumitomo Electric Industries, Ltd., Nippon Mektron, Ltd., Compeq Manufacturing Co., Ltd., Amphenol ZD Tech, TTM Technologies, Inc., TE Connectivity Ltd., Unimicron Technology Corporation, AT&S Austria Technologie & Systemtechnik AG, Molex, and Hon Hai Precision Industry Co., Ltd. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships, to strengthen their foothold in the competitive market.

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**New Product Development/ Product Matrix of Key Players**

Patient/epidemiology data at country, region, global level

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

List of customers/consumers/raw material suppliers- value chain analysis

SWOT Analysis

## Key Market Segments

### By Layer

Layer 4-6

Layer 6+

### By Substrate

Rigid

Flexible

Rigid-Flex

### By End Use Industry

Industrial Electronics

Healthcare

Aerospace Defense

Automotive

IT Telecom

Consumer Electronics

Others

## By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Sumitom%li%Electric Industries, Ltd.

Nippon Mektron, Ltd.

Compeq Manufacturing Co., Ltd.

Amphenol ZD Tech

TTM Technologies, Inc.

TE Connectivity Ltd.

Unimicron Technology Corporation

AT&S Austria Technologie & Systemtechnik AG

Molex

Hon Hai Precision Industry Co., Ltd.

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