

Flexible Printed Circuit Board Market to Hit US\$ 70.4 Bn by 2035, CAGR 14.5% | Transparency Market Research

Flexible PCBs enable compact, lightweight, high-performance devices, fueling growth across consumer, automotive, and medical industries.

WILMINGTON, DE, UNITED STATES, September 25, 2025 /

EINPresswire.com/ -- The global electronics landscape is undergoing rapid transformation, fueled by consumer demand for lightweight, compact, and high-performance devices. At the core of this transformation lies the Flexible Printed Circuit Board (FPCB) a versatile and

revolutionary technology that allows electronic circuits to bend, twist, and fold without damage. Once confined to specialized applications, FPCBs are now essential across industries such as consumer electronics, automotive, aerospace, medical devices, and industrial electronics.

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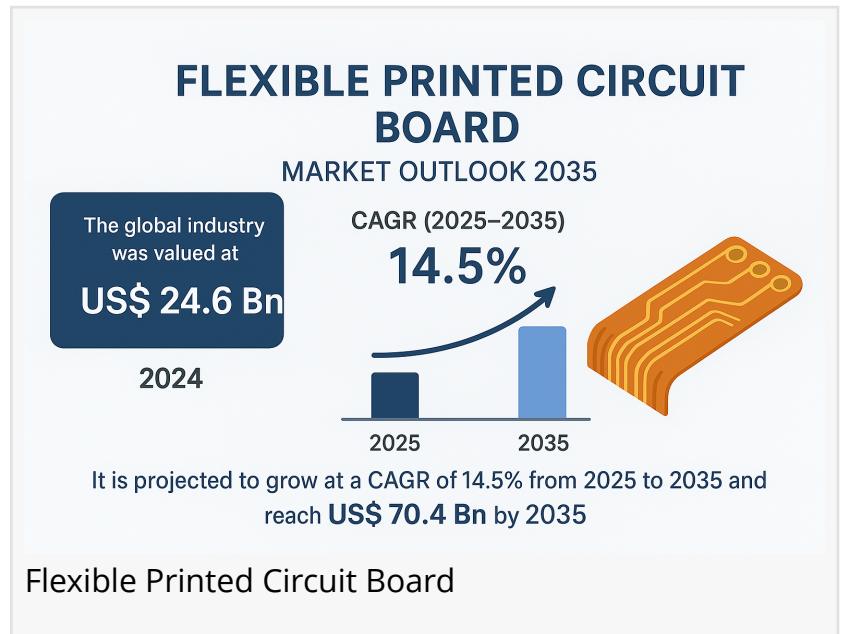
Flexible PCBs are the backbone of next-gen electronics, powering smaller, smarter, and foldable devices without compromising performance.”

*Transparency Market
Research*

According to the latest industry research, the global [flexible printed circuit board market](#) was valued at US\$ 24.6 Bn in 2024 and is projected to expand at a remarkable CAGR of 14.5% from 2025 to 2035, reaching US\$ 70.4 Bn by 2035. This double-digit growth highlights the pivotal role FPCBs are playing in next-generation technologies such as wearables, foldable smartphones, autonomous vehicles, and medical implants.

Market Overview: Flexible printed circuit boards, also known as flex circuits, are constructed using [flexible substrates](#) such as polyimide, enabling them to fit into

compact or irregular spaces. Unlike traditional rigid PCBs, FPCBs provide superior adaptability,



lightweight structure, and durability, making them indispensable in modern device design. The industry is evolving with advancements in rigid-flex designs, transparent substrates, and AI-enabled manufacturing techniques. With the rise of Internet of Things (IoT), foldable displays, and electric vehicles (EVs), FPCBs are becoming more than just enablers—they are emerging as a strategic cornerstone of the electronics supply chain.

Key Drivers of Market Growth

1. Miniaturization of Electronics

- o Consumer preference for compact, portable devices such as wearables, fitness trackers, and AR/VR headsets is driving adoption.
- o Medical devices and automotive control systems require smaller, more reliable electronic components.

2. Expansion of Consumer Electronics

- o Smartphones, tablets, and smart accessories are the largest end users of FPCBs.
- o The rising adoption of foldable and flexible displays significantly accelerates demand.

3. Advancements in Materials and Manufacturing

- o Use of polyimide, transparent PET substrates, and biocompatible materials enhance FPCB performance.
- o AI-based automation improves precision and reduces costs.

4. Automotive & Healthcare Applications

- o EVs, autonomous vehicles, and advanced driver-assistance systems (ADAS) rely on FPCBs for reliability and weight reduction.
- o FPCBs are used in medical imaging systems, diagnostic devices, and even implantable electronics.

5. Rising Popularity of Green Solutions

- o Eco-friendly and recyclable PCB materials are gaining traction as sustainability becomes a key industry concern.

Key Players and Industry Leaders

The FPCB market is highly competitive, with established leaders and innovative disruptors shaping its trajectory. Some of the prominent players include:

- Career Technology (Mfg.) Co., Ltd.
- Daeduck GDS
- Flexcom Inc.
- Fujikura Ltd.
- Multi-Fineline Electronix, Inc. (MFLEX)
- Sumitomo Electric Industries, Ltd. (SEI)

- Interflex Co. Ltd.
- NewFlex Technology Co., Ltd.
- Nitto Denko Corporation
- NOK Corporation
- JLCPCB.COM
- OKI Circuit Technology Co. Ltd.

These companies focus on product innovation, mergers and acquisitions, and regional expansion to capture emerging opportunities in sectors like 5G, IoT, and aerospace.

Recent Developments

- August 2025 – JLCPCB introduced transparent flexible printed circuits using PET materials with up to 85% light transmittance. This innovation supports SMT assembly, is cost-effective, and is ideal for wearables, medical devices, and display technologies.
 - July 2025 – OKI Circuit Technology launched rigid-flex PCBs with embedded copper coins designed to improve heat dissipation in extreme environments such as space applications.
- These developments reflect the industry's commitment to pushing the boundaries of flexibility, thermal management, and cost efficiency.

Full Market Report available for delivery. For purchase or customization, please request here – https://www.transparencymarketresearch.com/sample/sample.php?flag=S&rep_id=21704

New Opportunities and Challenges

Opportunities:

- Wearables & IoT Devices: Growing demand for fitness trackers, smartwatches, and connected home devices.
- Automotive Electronics: EVs and ADAS systems create new revenue streams.
- Medical Applications: Increasing use in minimally invasive surgical devices, imaging systems, and implants.

Challenges:

- High Manufacturing Costs: Advanced multilayer and HDI FPCBs require specialized manufacturing.
- Durability Concerns: Continuous bending in dynamic applications can lead to material fatigue.
- Supply Chain Dependencies: Concentration of manufacturing in Asia-Pacific makes the industry vulnerable to disruptions.

Latest Market Trends

1. Rigid-Flex Integration – Combining rigid and flexible boards into hybrid systems for durability and flexibility.
2. Transparent FPCBs – New substrates enabling futuristic designs in displays and wearables.

3. Biocompatible Electronics – FPCBs designed for implantable medical devices.
4. Sustainability – Adoption of recyclable materials and greener manufacturing practices.
5. AI in Manufacturing – Enhancing precision, cost reduction, and defect minimization.

Future Outlook

Analysts project that the FPCB market will continue its double-digit CAGR through 2035, fueled by next-generation consumer devices, connected cars, 5G rollouts, and healthcare digitization. By 2035, FPCBs will be at the center of innovations in robotics, aerospace systems, and bioelectronics, making them a strategic enabler of digital transformation.

Market Segmentation

By Type:

- Multi-layer FPCBs
- Rigid-flex FPCBs
- Single-sided FPCBs
- Double-sided FPCBs
- Others

By End-use Industry:

- Consumer Electronics
- Automotive
- IT & Telecom
- Industrial Electronics
- Aerospace & Defense
- Medical & Healthcare
- Others (Energy, Robotics, etc.)

Regional Insights

- Asia-Pacific: Largest market with strong manufacturing hubs in China, Japan, South Korea, and Taiwan.
- North America: Fastest-growing market, driven by adoption in automotive, aerospace, and medical devices.
- Europe: Strong demand in automotive and industrial electronics, with Germany and France leading adoption.
- Latin America & Middle East: Emerging markets with potential in energy, telecom, and automotive electronics.

Why Buy This Report?

- Comprehensive Market Analysis: Detailed insights into global FPCB industry trends, drivers,

challenges, and opportunities.

- Competitive Landscape: Profiles of leading players with strategies, product portfolios, and financials.
- Forecast Data: Market projections from 2025 to 2035, with historical benchmarks from 2020-2023.
- Regional Coverage: In-depth analysis across North America, Europe, Asia-Pacific, Latin America, and Middle East & Africa.
- Strategic Guidance: For manufacturers, investors, and stakeholders looking to enter or expand in the FPCB industry.

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