

Automotive FPC Market By Product Type (Double Sided FPC, Multilayer FPC, Single Sided FPC) , By Application (Fuel Automotive, New Energy Automotive) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Automotive FPC Market

The automotive FPC market was valued at \$344.0 million in 2023 and is projected to reach \$539.2 million by 2033, growing at a CAGR of 4.8% from 2024 to 2033.

An automotive flexible printed circuit (FPC) is a circuit board that provides electrical connectivity to different components of vehicles. The ability of the circuit to bend & twist allows it to fit compactly in irregular spaces, saving space and weight in automobiles. In automotive FPCs, the conductive pathway is printed on a flexible surface using processes such as photolithography or etching. They provide electrical connectivity to different components of automobiles, including infotainment, airbags, lighting, powertrain, engine control, and electric brake systems.

Increase in the incorporation of electrical systems in internal combustion engine vehicles is a key driver of the automotive FPC market. In addition, expansion of the electric and hybrid vehicle industries is augmenting the development of the market significantly. Furthermore, surge in inclination toward miniaturization of automotive components is fueling the demand for automotive FPCs due to their flexibility, which is propelling the market growth. In recent times, the usage of automotive FPCs to enhance the personalized attributes of vehicles is trending in the market currently. They are becoming crucial components of smart seating systems, interactive interfaces, and health-monitoring systems of vehicles as the flexibility of FPCs facilitates their seamless

integration into complex designs and bends.

However, the high costs of specialized materials such as polyimide films that form the flexible surface, along with the complex layering processes increase the overall price of automotive FPCs. This restricts their usage in budgeted models, which restrains the development of the market. On the contrary, the advent of autonomous vehicles is expected to present remunerative opportunities for the automotive FPC market. According to a 2024 survey by McKinsey—an American management consulting firm—by 2030, level 4 robo-taxis are anticipated to be available commercially at a large scale and the likelihood for completely autonomous trucking lies between 2028 and 2031. As autonomous vehicles remain heavily equipped with various electric components—including sensors, collision avoidance systems, adaptive cruise control systems, and cameras—the automotive FPC market is poised to witness several new avenues in the future.

Segment Review

The automotive FPC market is segmented into product type, application, and region. On the basis of product type, the market is divided into double-sided FPC, multilayer FPC, and single-sided FPC. As per application, it is bifurcated into fuel automotive and new energy automotive. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and Latin America.

Key Findings

On the basis of product type, the multilayer FPC segment is expected to be the highest shareholder during the forecast period.

As per application, the fuel automotive segment is projected to dominate the market from 2024 to 2033.

Region wise, Asia-Pacific is anticipated to be the highest revenue generator by 2033.

Competition Analysis

The leading players operating in the global automotive FPC market include Nippon Mektron, Tripod, CMK Corporation, Chin Poon Industrial, AT&S, TTM, Wus Printed Circuit, KCE Electronics, and Meiko Electronics. These major players have adopted various key development strategies such as business expansion, new product

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Key Market Segments

By Product Type

Double Sided FPC

Multilayer FPC

Single Sided FPC

By Application

Fuel Automotive

New Energy Automotive

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

Latin America

Brazil

Argentina

Rest of Latin America

Key Market Players

Nippon Mektron

Tripod

CMK Corporation

Chin Poon Industrial

AT&S

TTM

Wus Printed Circuit

KCE Electronics

Meiko Electronics

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
 - 1.4.1. Primary Research
 - 1.4.2. Secondary Research
 - 1.4.3. Analyst Tools and Models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

CHAPTER 3: MARKET LANDSCAPE

- 3.1. Market Definition and Scope
- 3.2. Key Findings
 - 3.2.1. Top Investment Pockets
 - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
 - 3.3.1. Bargaining Power of Suppliers
 - 3.3.2. Threat of New Entrants
 - 3.3.3. Threat of Substitutes
 - 3.3.4. Competitive Rivalry
 - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
 - 3.4.1. Drivers
 - 3.4.2. Restraints
 - 3.4.3. Opportunities

CHAPTER 4: AUTOMOTIVE FPC MARKET, BY PRODUCT TYPE

- 4.1. Market Overview
 - 4.1.1 Market Size and Forecast, By Product Type
- 4.2. Double Sided FPC
 - 4.2.1. Key Market Trends, Growth Factors and Opportunities

- 4.2.2. Market Size and Forecast, By Region
- 4.2.3. Market Share Analysis, By Country
- 4.3. Multilayer FPC
 - 4.3.1. Key Market Trends, Growth Factors and Opportunities
 - 4.3.2. Market Size and Forecast, By Region
 - 4.3.3. Market Share Analysis, By Country
- 4.4. Single Sided FPC
 - 4.4.1. Key Market Trends, Growth Factors and Opportunities
 - 4.4.2. Market Size and Forecast, By Region
 - 4.4.3. Market Share Analysis, By Country

CHAPTER 5: AUTOMOTIVE FPC MARKET, BY APPLICATION

- 5.1. Market Overview
 - 5.1.1 Market Size and Forecast, By Application
- 5.2. Fuel Automotive
 - 5.2.1. Key Market Trends, Growth Factors and Opportunities
 - 5.2.2. Market Size and Forecast, By Region
 - 5.2.3. Market Share Analysis, By Country
- 5.3. New Energy Automotive
 - 5.3.1. Key Market Trends, Growth Factors and Opportunities
 - 5.3.2. Market Size and Forecast, By Region
 - 5.3.3. Market Share Analysis, By Country

CHAPTER 6: AUTOMOTIVE FPC MARKET, BY REGION

- 6.1. Market Overview
 - 6.1.1 Market Size and Forecast, By Region
- 6.2. North America
 - 6.2.1. Key Market Trends and Opportunities
 - 6.2.2. Market Size and Forecast, By Product Type
 - 6.2.3. Market Size and Forecast, By Application
 - 6.2.4. Market Size and Forecast, By Country
 - 6.2.5. U.S. Automotive FPC Market
 - 6.2.5.1. Market Size and Forecast, By Product Type
 - 6.2.5.2. Market Size and Forecast, By Application
 - 6.2.6. Canada Automotive FPC Market
 - 6.2.6.1. Market Size and Forecast, By Product Type
 - 6.2.6.2. Market Size and Forecast, By Application

6.2.7. Mexico Automotive FPC Market

6.2.7.1. Market Size and Forecast, By Product Type

6.2.7.2. Market Size and Forecast, By Application

6.3. Europe

6.3.1. Key Market Trends and Opportunities

6.3.2. Market Size and Forecast, By Product Type

6.3.3. Market Size and Forecast, By Application

6.3.4. Market Size and Forecast, By Country

6.3.5. UK Automotive FPC Market

6.3.5.1. Market Size and Forecast, By Product Type

6.3.5.2. Market Size and Forecast, By Application

6.3.6. Germany Automotive FPC Market

6.3.6.1. Market Size and Forecast, By Product Type

6.3.6.2. Market Size and Forecast, By Application

6.3.7. France Automotive FPC Market

6.3.7.1. Market Size and Forecast, By Product Type

6.3.7.2. Market Size and Forecast, By Application

6.3.8. Russia Automotive FPC Market

6.3.8.1. Market Size and Forecast, By Product Type

6.3.8.2. Market Size and Forecast, By Application

6.3.9. Rest Of Europe Automotive FPC Market

6.3.9.1. Market Size and Forecast, By Product Type

6.3.9.2. Market Size and Forecast, By Application

6.4. Asia-Pacific

6.4.1. Key Market Trends and Opportunities

6.4.2. Market Size and Forecast, By Product Type

6.4.3. Market Size and Forecast, By Application

6.4.4. Market Size and Forecast, By Country

6.4.5. China Automotive FPC Market

6.4.5.1. Market Size and Forecast, By Product Type

6.4.5.2. Market Size and Forecast, By Application

6.4.6. Japan Automotive FPC Market

6.4.6.1. Market Size and Forecast, By Product Type

6.4.6.2. Market Size and Forecast, By Application

6.4.7. India Automotive FPC Market

6.4.7.1. Market Size and Forecast, By Product Type

6.4.7.2. Market Size and Forecast, By Application

6.4.8. South Korea Automotive FPC Market

6.4.8.1. Market Size and Forecast, By Product Type

- 6.4.8.2. Market Size and Forecast, By Application
- 6.4.9. Australia Automotive FPC Market
 - 6.4.9.1. Market Size and Forecast, By Product Type
 - 6.4.9.2. Market Size and Forecast, By Application
- 6.4.10. Rest of Asia-Pacific Automotive FPC Market
 - 6.4.10.1. Market Size and Forecast, By Product Type
 - 6.4.10.2. Market Size and Forecast, By Application
- 6.5. Latin America
 - 6.5.1. Key Market Trends and Opportunities
 - 6.5.2. Market Size and Forecast, By Product Type
 - 6.5.3. Market Size and Forecast, By Application
 - 6.5.4. Market Size and Forecast, By Country
 - 6.5.5. Brazil Automotive FPC Market
 - 6.5.5.1. Market Size and Forecast, By Product Type
 - 6.5.5.2. Market Size and Forecast, By Application
 - 6.5.6. Argentina Automotive FPC Market
 - 6.5.6.1. Market Size and Forecast, By Product Type
 - 6.5.6.2. Market Size and Forecast, By Application
 - 6.5.7. REST of Latin America Automotive FPC Market
 - 6.5.7.1. Market Size and Forecast, By Product Type
 - 6.5.7.2. Market Size and Forecast, By Application

CHAPTER 7: COMPETITIVE LANDSCAPE

- 7.1. Introduction
- 7.2. Top Winning Strategies
- 7.3. Product Mapping Of Top 10 Player
- 7.4. Competitive Dashboard
- 7.5. Competitive Heatmap
- 7.6. Top Player Positioning, 2023

CHAPTER 8: COMPANY PROFILES

- 8.1. Nippon Mektron
 - 8.1.1. Company Overview
 - 8.1.2. Key Executives
 - 8.1.3. Company Snapshot
 - 8.1.4. Operating Business Segments
 - 8.1.5. Product Portfolio

- 8.1.6. Business Performance
- 8.1.7. Key Strategic Moves and Developments
- 8.2. Tripod
 - 8.2.1. Company Overview
 - 8.2.2. Key Executives
 - 8.2.3. Company Snapshot
 - 8.2.4. Operating Business Segments
 - 8.2.5. Product Portfolio
 - 8.2.6. Business Performance
 - 8.2.7. Key Strategic Moves and Developments
- 8.3. CMK Corporation
 - 8.3.1. Company Overview
 - 8.3.2. Key Executives
 - 8.3.3. Company Snapshot
 - 8.3.4. Operating Business Segments
 - 8.3.5. Product Portfolio
 - 8.3.6. Business Performance
 - 8.3.7. Key Strategic Moves and Developments
- 8.4. Chin Poon Industrial
 - 8.4.1. Company Overview
 - 8.4.2. Key Executives
 - 8.4.3. Company Snapshot
 - 8.4.4. Operating Business Segments
 - 8.4.5. Product Portfolio
 - 8.4.6. Business Performance
 - 8.4.7. Key Strategic Moves and Developments
- 8.5. ATAndS
 - 8.5.1. Company Overview
 - 8.5.2. Key Executives
 - 8.5.3. Company Snapshot
 - 8.5.4. Operating Business Segments
 - 8.5.5. Product Portfolio
 - 8.5.6. Business Performance
 - 8.5.7. Key Strategic Moves and Developments
- 8.6. TTM
 - 8.6.1. Company Overview
 - 8.6.2. Key Executives
 - 8.6.3. Company Snapshot
 - 8.6.4. Operating Business Segments

- 8.6.5. Product Portfolio
- 8.6.6. Business Performance
- 8.6.7. Key Strategic Moves and Developments
- 8.7. Wus Printed Circuit
 - 8.7.1. Company Overview
 - 8.7.2. Key Executives
 - 8.7.3. Company Snapshot
 - 8.7.4. Operating Business Segments
 - 8.7.5. Product Portfolio
 - 8.7.6. Business Performance
 - 8.7.7. Key Strategic Moves and Developments
- 8.8. KCE Electronics
 - 8.8.1. Company Overview
 - 8.8.2. Key Executives
 - 8.8.3. Company Snapshot
 - 8.8.4. Operating Business Segments
 - 8.8.5. Product Portfolio
 - 8.8.6. Business Performance
 - 8.8.7. Key Strategic Moves and Developments
- 8.9. Meiko Electronics
 - 8.9.1. Company Overview
 - 8.9.2. Key Executives
 - 8.9.3. Company Snapshot
 - 8.9.4. Operating Business Segments
 - 8.9.5. Product Portfolio
 - 8.9.6. Business Performance
 - 8.9.7. Key Strategic Moves and Developments

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