

# Flexible Electronics & Circuit Market with COVID-19 Impact Analysis by Structure Type (Single Sided Flex Circuit, Multilayer Flex Circuit), Application (Displays, Printed Sensors), Vertical (Consumer Electronics), and Geography - Global Forecast to 2026

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# **Abstracts**

The flexible electronics market size is projected to reach USD 48.5 billion by 2026 from an estimated USD 31.9 billion in 2021, at a CAGR of 8.8% from 2021 to 2026. The rising demand for consumer electronic devices is among the factors driving the growth of the flexible electronics & circuit market.

"The multilayer flex circuit held the largest share of the flexible circuit market in 2020, and will continue to hold a dominant position in the market during the forecast period"

The multilayer flex circuit held the largest share of the flexible circuit market in 2020, and will continue to hold a dominant position in the market during the forecast period. Multilayer flex circuits offer reduction in assembly costs, time, package size, and weight. They also offer better signal integrity than other structure types and are increasingly being used in the military, defense & aerospace; communications; automotive; and consumer electronics verticals. Multilayer flex circuit boards have very fine lines, allowing enough space for other components. Hence, multilayer flex circuit boards have high board density that is suitable for high density applications.

"The consumer electronics vertical is expected to capture the largest share of the flexible electronics market"

The consumer electronics vertical is expected to capture the largest share of the flexible electronics market based on vertical. The growth of this market can be attributed to the



large-scale adoption of flexible displays in consumer electronic devices such as smartphones, wearables, televisions, etc. Flexible OLED displays are widely used in leading smartphones by industry leaders such as Apple Inc. and Samsung Group. Apple has plans to introduce the iPhone Flip with a flexible display. Such developments have significantly contributed to the growth of the overall flexible electronics market for the consumer electronics vertical.

"Based on region, APAC held the largest share of flexible electronics market."

APAC held the largest share of the overall flexible electronics market, based on region, in 2020. The growth of the market can be attributed to the presence of leading players from the flexible electronics ecosystem such as Samsung Group, LG Corp., Panasonic Corporation, and Konica Minolta Inc. These players have captured a major share of the flexible electronics market, thereby contributing significantly to the growth of the market in APAC.

In-depth interviews have been conducted with chief executive officers (CEOs), marketing managers, and other executives from various key organizations operating in the flexible electronics & circuit marketplace.

By Company Type: Tier 1 – 25%, Tier 2 – 35%, and Tier 3 – 40%

By Designation: C-Level Executives – 35%, Managers – 25%, and Others – 40%

By Region: North America – 25%, Europe – 42%, APAC – 21%, and RoW – 12%

Samsung Group (South Korea), LG Corp. (South Korea), Panasonic Corporation (Japan), The 3M Company (US), Konica Minolta Inc. (Japan), First Solar, Inc. (US), E Ink Holdings (Taiwan), PragmatIC Printing Ltd. (UK), Blue Spark Technologies, Inc. (US), and BrightVolt Technologies (US), are some of the key players in the flexible electronics & circuit market.

The study includes an in-depth competitive analysis of these key players in the flexible electronics & circuit market, with their company profiles, recent developments, and key market strategies.

Research Coverage



The report defines, describes, and forecasts the flexible electronics & circuit market based on structure type, application, vertical, and region. It provides detailed information regarding factors such as drivers, restraints, opportunities, and challenges influencing the growth of the flexible electronics & circuit market. It also analyzes product launches and developments, agreements, acquisitions, expansions, and partnerships carried out by the key players to grow in the market.

## Key Benefits of Buying the Report

This report will help market leaders/new entrants in this industry with information on the closest approximations of the revenue numbers for the overall flexible electronics & circuit market and the subsegments. The report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report will also help stakeholders to understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.



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# **About**

According to the new market research report "Flexible Electronics & Circuit Market by Application (OLED & LCD Display, Printed Sensor, Battery, Thin-Film PV, OLED Lighting), Circuit Structure (Single-Sided, Multilayer, Double-Sided, Rigid), Vertical, and Geography - Global Forecast to 2023", The flexible electronics market is expected to grow from USD 23.92 Billion in 2018 to USD 40.37 Billion by 2023, at the CAGR of 11.0% between 2018 and 2023. Flexible electronics are formed by mounting electronic devices on a flexible/plastic substrate, such as a polyimide or transparent conductive polyester film. The development of flexible electronics has spanned the past 40 years, ranging from the development of flexible solar cell arrays to flexible OLED electronics on plastic substrates. Flexible electronic devices are easier to integrate into the end product and also tend to be lighter in weight.

Some of the major companies operating in the flexible electronics market are





Palo Alto Research Center (US)

Thin Film Electronics (Norway)

Royole Corporation (US)

FlexEnable (UK)

Enfucell (Finland)

The increasing adoption of flexible displays in smartphones and wearables is strongly driving market growth. The emergence of flexible batteries suitable for IoT and wearable applications is a good opportunity for market growth at the global level. Samsung Group (South Korea), LG Group (South Korea), and Solar Frontier (Japan) are some of the prominent players in the flexible electronics market.

# The Flexible displays held the largest market share in 2017

Displays LCD and OLED are expected to hold the largest share of flexible electronics market during 2018-2023. The market for displays is led by industry leaders such as Samsung and LG who produce flexible OLED display panels that are largely being deployed in smartphones, smart wearables, and televisions. Leading smartphone manufacturers, such as Samsung and Apple, have adopted flexible OLED displays in their flagship smartphones. Flexible displays are also increasingly being deployed for television and digital signage applications due to their aesthetic appeal. The demand for flexible displays is expected to increase for more applications across various verticals are adopting the technology.

# The automotive vertical is expected to demonstrate the fastest growth in the flexible electronics market during the forecast period

The automotive vertical is increasingly adopting flexible electronic devices as they can be easily integrated with the vehicle design allowing compact assembly. Flexible displays, OLED lighting solutions, and printed sensors are actively adopted in the automotive vertical. Flexible OLED lighting solutions are expected to be rapidly adopted for automotive applications due to their enhanced luminescence, improved power efficiency, and attractive design.



# APAC region held the largest share of the flexible electronics market in 2017

APAC dominated the flexible electronics market, accounting for the largest market share in 2017. In addition, the region is likely to be the fastest-growing market for flexible electronics during the forecast period. APAC is the hub for manufacturers and customers of flexible OLED panels. In the market, Samsung and LG have been the leading companies that deploy flexible displays in smartphones and televisions. In APAC, Flexible sensors are also increasingly being used for healthcare applications. APAC has witnessed an increase in the installation of thin-film PVs in the recent years, and their deployment is expected to increase steadily in China. With Japan and India being prominent countries in the adoption of thin-film PVs, other countries in the region are also shifting toward renewable energy resources.



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