

## Report Information

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# Global Integrated Passive Devices Market Research Report - Forecast to 2030

Report / Search Code: MRFR/SEM/1897-HCR

Publish Date: January, 2023

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## Description:

## Integrated Passive Devices Market Size and Overview

Globally, the size of the Integrated Passive Devices Market will reach approximately USD 2.45 Billion by the end of the year 2030, with a CAGR of around 8.81% during the forecast period driven by The consumer electronics sectors have a massive demand for integrated passive devices.

The integrated passive device is a packaging technology it has advanced features such as resonating, filtering, matching, biasing, decoupling, and transforming. It is a high-performing device integrated with AL technology. Advanced technologies are accelerating the demand of the market. IPD is also an essential part of smartphones, computers, and other electronic devices.

The consumer electronics sectors highly demand these devices because they play a significant role in smartphones, computers, tablets, mobiles, laptops, LED products, and media players. The rising number of Smartphone users is driving the Integrated Passive Devices Market growth.

The smartphones are packed with Wifi connectivity, communication systems, GPS, and 5G technologies. The device needs Integrated Passive Devices to integrate miniature components of these features.

White goods are considered the biggest applications of IPD technology. Integrated passive devices have massive demand in the consumer electronics sector, with portable media players, set-top boxes and digital TVs, and others. The growth of the consumer electronics sector will automatically drive the market's demand.

For the demand for next-generation communication technology, like 4G LTE, the Smartphone needs to support higher frequency bands to drive the need for additional miniaturized components. This will let the verticals incline towards IPDs in consumer electronics with cost-effective solutions. The growth opportunities are vast in the consumer electronics sector.; hence the market will emerge in this sector.

## Covid analysis

Covid 19 has a destructive impact on several markets. Also, it is affecting the semiconductor industry massively. Due to this, the Integrated Passive Devices Market is experiencing a downfall during the pandemic. The semiconductor industry is experiencing a 3% decline in demand. Also, it is causing several disruptions in the supply-demand chain. The IPD market has come to a halt during the oballshutdown. However, the manufacturing process is resuming fast. Therefore, the increasing Integrated Passive Devices Market Revenue trend will continue in the upcoming years. The Integrated Passive Devices Market Overview shows that the demand grows higher post covid.

## Market Dynamics

### • The crucial market drivers

The consumer electronics sectors have a massive demand for integrated passive devices. They are crucial parts of tablets, mobile, Smartphone, computer, laptops, LED products and media players. The number of Smartphone users is vast. The substantial increase in the number of smartphones users is driving the integrated passive devices market. The smartphones are packed with features such as Wifi connectivity, GPS, communication systems, and 5G technologies. To integrate the miniature components of these features the smartphones require IPD.

The role of IPD in Smartphone manufacturing will grow higher in the upcoming years. It is the vital-reason that will fuel the Integrated Passive Devices Market growth during 2022. Further, the demand for semiconductor products is high in the future. Many sectors are adapting to semiconductor technology at a rapid pace. It is another crucial market driver for IPD. Moreover, the integrated passive device is crucial in the automotive industry. The use of IPD in automotive is intensifying every year. It will ultimately act as a major integrates passive market driver. The crucial drivers are the key-contributors to Integrated Passive Devices growth.

### • The market growth opportunities

The 5G connection is increasing more in the upcoming years. The integrated passive device is essential in devices such as filters and duplexers. These devices come with 5G connectivity that requires IPD for compatibility. The integrated passive device makes other devices compatible with the latest 5G technology. The use of IPD will reduce both the components size and the power consumption of infrastructure products in the telecom industry. Due to this

factor, the Integrated Passive Devices Market has plenty of prospects.

Especially the rise of the telecom industry will ultimately result in more demand for the IPD market. By the forecast period 2030, it is expected that 200 million audiences will shift to 5 G connectivity. It will fuel the growth of the integrated passive device market at an exponential pace by 2022. The top countries such regions such as Asia Pacific, North America and Europe are deploying IPD at a larger scale. All these factors will expand the Integrated Passive Devices Market Size in the forecast period.

- **The market restraints**

The price of IPD is high when compared to other alternatives. The price is a vital concern that restricts the growth of the Integrated Passive Devices Industry. The key players of the Integrated Passive Devices Market are making efforts to implement cost-cutting methods on IPD. However, the lack of R&D restricts the key players to come up with an effective cost-cutting strategy. Moreover, the requirement for low fabrication cost is high in integrated passive devices market.

The IPD is expensive when incorporated with elements such as the semiconductor industry and the consumer electronics market. Also, the high price of IPD stirs up the overall cost of consumer electronics products. The high price trend may restrict the growth of integrated passive devices market demand in future years. Also, the market expansion will be slow if this market trend continues. Therefore, the high product price is the major restraint in the integrated passive devices market.

- **The market challenges**

The design and manufacturing cycle of the integrated passive device is higher. Also, tuning the IPD with other technologies takes even more time. Especially the long design time required for RF and IPD is the major challenge in this market. The integration of passive devices requires a long time which is a significant challenge in integrated passive devices market. The overall product supply is delayed due to the long design cycle of IPD.

- **The cumulative growth analysis**

The integrated passive device market will witness a gradual growth in the forecast period of 2030. Also, the increasing demand trend will continue in the upcoming years. All types of IPDS such as the silicone base and glass-base are performing well in the integrated passive devices market. However, there is a serious-need to fix the high product price. More R&D is essential in the integrated passive device market to implement an effective cost-cutting method. The market requires product performance, miniaturization and cost-efficient. A lack of either of these factors will affect the overall growth of the integrated passive devices market. The future relies on IoT technology. Therefore, integrating passive derive with IoT offer more growth opportunities for the market.

- **The value chain analysis**

Europe is popular for its well established Integrated Passive Devices Companies. It is a region that will dominate the IPD market in the forecast period of 2030. The surging demand is due to the fast adoption of IPD in consumer electronics. The innovation and effective deployment of IPD is high in this region. Also, Europe will witness massive technological improvements in the upcoming years. Europe holds the record of high investments for the integrated passive devices market in the world. The requirement of IPD grows stronger due to the promotion of competitive key-players in this region.

## Segment overview

The crucial Integrated Passive Devices Market Segments are as follows

### By product material

- Glass
- Silicone

### By components

- Diplexers
- Baluns
- Customized IPDs
- Couplers
- Filter

### By application

- Cellular
- Bluetooth
- GPS
- WLAN

### By geography

- Asia pacific
- Europe
- North America

### By end-users

- Aerospace & Defense
- Consumer Electronics
- Healthcare & Life sciences
- Communication

## Regional analysis

The key regional players of the integrated passive devices market are Asia Pacific, Europe and North America. Europe holds the largest integrated passive device industry market share. The rapid technological developments are fueling the integrated passive devices market in this region. The countries such as Germany, France and the UK are the key contributors to market growth. Also, North America has the second-largest Integrated Passive Devices Industry Size.

The presence of Canada and the US are more in the integrated passive devices market. The crucial market drivers for North America are the rising semiconductor industries. Asia Pacific is witnessing fast growth in the integrated passive devices market. During the forecast period, the three major regional players are responsible for the massive growth. The manufacturing process in these regional areas will intensify in the upcoming years. Also, market growth opportunities are plentiful in these regions.

## Competitive landscape

There is severe competition among regional players in the integrated passive devices market. New partnerships and market expansion are some of the key strategies of the key players of the market.

The key players of the global integrated passive devices market are

- 3DiS Technologies (France)
- On Semiconductor (US)
- Johanson Technology, Inc. (US)
- STATS ChipPAC Ltd (Singapore)
- STMicroelectronics (US)
- Global Communication Semiconductors, Inc. (US)
- Micron Technology, Inc. (US)
- Infineon Technologies AG (Germany)

## Recent Developments

### June 2021

In June 2021, Apple significantly increased the adoption of IPD (integrated passive devices) in new iPhones and other iOS products. It provided robust business opportunities for manufacturing partners TSMC and Amkor.

### April 2022

Brokerages predict Avnet, Inc. will post USD 5.62 billion in sales for the current fiscal quarter. Avnet, Inc, a technology solutions company, operates two segments, Electronic Components, and Farnell. The Electronic Components segment interconnects semiconductors, electromechanical and passive devices, and other integrated components from electronic component manufacturers.

## Report Overview

- integrated passive devices market overview highlights
- Analysis based upon COVID 19
- Explanation upon the Market Dynamics
- Value chain analysis
- Market segmentation overview

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