

# High-Density Interconnect (HDI) PCB Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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## Abstracts

### Market Overview:

The global high-density interconnect (HDI) PCB market size reached US\$ 8.2 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 11.5 Billion by 2028, exhibiting a growth rate (CAGR) of 5.5% during 2023-2028.

Interconnecting printed circuit boards (PCBs) with high-density interconnects (HDIs) are circuit boards having a better wiring density per unit than conventional circuit boards. With blind and buried vias, it contains micro-vias that are smaller in diameter and have a relatively greater pad density than conventional circuit boards while having a higher circuitry density than traditional counterparts. High-density PCB technology has allowed engineers an enhanced design freedom and flexibility, thus allowing them to place smaller and closer components, which reduces signal loss and crossing delays. An interconnect PCB with high density gives designers more surface area to work with. As a result, high-density interconnect PCBs deliver better signal quality and faster signal transmission.

### High-Density Interconnect (HDI) PCB Market Trends:

The global market is primarily driven by the escalating product demand in numerous end-use industries, including telecommunication, consumer electronics, and automotive. This can be attributed to the rapid product utilization in various electronic devices like touch-screen devices, mobile phones, laptop computers, and digital cameras. In addition to this, the rising trend of electronic device miniaturization and the increasing demand for high-performance gadgets are also providing an impetus to the market.

Besides this, the expanding medical expenditure resulting in a higher uptake of medical devices and equipment is also creating a positive outlook for the market. Furthermore, the augmenting production rates of electronic aircraft parts and components are acting as a significant growth-inducing factor for the market. Some of the other factors contributing to the market growth include the widespread adoption of sophisticated safety systems, the rising trend of autonomous driving, escalating sales of smart devices and gaming consoles, inflating disposable income levels and extensive research and development (R&D) activities.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global high-density interconnect (HDI) PCB market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on number of HDI layer and end use industry.

#### Breakup by Number of HDI Layer:

- 4-6 Layers HDI PCBs
- 8-10 Layer HDI PCBs
- 10+ Layer HDI PCBs

#### Breakup by End Use Industry:

- Smartphones and Tablets
- Computers
- Telecom/Datacom
- Consumer Electronics
- Automotive
- Others

#### Breakup by Region:

- North America
  - United States
  - Canada
- Asia-Pacific
  - China
  - Japan

India  
South Korea  
Australia  
Indonesia  
Others  
Europe  
Germany  
France  
United Kingdom  
Italy  
Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being AT & S Austria Technologie & Systemtechnik Aktiengesellschaft, Bittele Electronics Inc., Fineline Ltd., Meiko Electronics Co. Ltd., Millennium Circuits Limited, Mistral Solutions Pvt. Ltd., Shenzhen Kinwong Electronic Co. Ltd., Sierra Circuits, TTM Technologies Inc., Unimicron Technology Corporation (United Microelectronics Corporation), Unitech Printed Circuit Board Corp. and W?rth Elektronik GmbH & Co. KG.

#### Key Questions Answered in This Report:

How has the global high-density interconnect (HDI) PCB market performed so far and how will it perform in the coming years?  
What has been the impact of COVID-19 on the global high-density interconnect (HDI) PCB market?  
What are the key regional markets?  
What is the breakup of the market based on the number of HDI layer?  
What is the breakup of the market based on the end use industry?  
What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global high-density interconnect (HDI) PCB market and who are the key players?

What is the degree of competition in the industry?

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