

High-Density Interconnect (HDI) PCB Market Report by Number of HDI Layer (4-6 Layers HDI PCBs, 8-10 Layer HDI PCBs, 10+ Layer HDI PCBs), End Use Industry (Smartphones and Tablets, Computers, Telecom/Datacom, Consumer Electronics, Automotive, and Others), and Region 2024-2032

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Abstracts

The global high-density interconnect (HDI) PCB market size reached US\$ 8.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 13.4 Billion by 2032, exhibiting a growth rate (CAGR) of 4.8% during 2024-2032.

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

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 levels from 2024-2032. 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

1. What was the size of the global High-Density Interconnect (HDI) PCB market in 2023?
2. What is the expected growth rate of the global High-Density Interconnect (HDI) PCB market during 2024-2032?
3. What are the key factors driving the global High-Density Interconnect (HDI) PCB market?
4. What has been the impact of COVID-19 on the global High-Density Interconnect (HDI) PCB market?

5. What is the breakup of the global High-Density Interconnect (HDI) PCB market based on the number of HDI layer?
6. What is the breakup of the global High-Density Interconnect (HDI) PCB market based on the end use industry?
7. What are the key regions in the global High-Density Interconnect (HDI) PCB market?
8. Who are the key players/companies in the global High-Density Interconnect (HDI) PCB market?

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