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PCB Connector Market - Forecast from 2026 to 2031

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Abstracts

The PCB connector market is projected to expand at a 6.03% CAGR, attaining USD 9.83 billion in 2031 from USD 6.917 billion in 2025.

The PCB connector market is experiencing robust growth driven by accelerating adoption of robotics and automation in industrial and manufacturing sectors worldwide. Surging electric vehicle (EV) production and automotive electrification are expanding demand for reliable interconnections. These connectors also support renewable energy initiatives by enabling efficient signal and power transfer in solar and wind systems. Asia-Pacific commands the largest market share, fueled by substantial investments in EV manufacturing and robotics infrastructure across key economies.

PCB connectors, mounted directly on printed circuit boards, facilitate seamless signal and power transfer between PCBs or from PCBs to external sources, ensuring uninterrupted device functionality. They serve diverse end-users including aerospace and defense, industrial automation, power and energy, automotive, and electrical and electronics. Primary trends include the integration of miniaturized, high-density designs to accommodate compact electronics, alongside enhanced durability for harsh environments in EVs and renewable applications.

Growing automation and robotics adoption significantly bolsters market expansion. These connectors enable precise signal transmission and power distribution in robotic systems, supporting enhanced productivity, accuracy, and complex operations. As industries prioritize efficiency and reduced labor costs, robotics deployments are rising, proportionally increasing PCB connector needs.

The emerging automotive sector drives further growth. PCB connectors are vital for interconnecting electronic systems in vehicles, particularly with the rise of electrification, advanced driver-assistance systems, and EVs. They handle high-power requirements

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and data rates essential for battery management and vehicle performance.

The shift toward renewable energy also propels demand. PCB connectors interconnect components in solar panels, wind turbines, and energy storage systems, facilitating efficient power monitoring and transmission amid global sustainability efforts.

Geographically, Asia-Pacific is projected to account for the majority of market share. Leading economies like China, Japan, and India are investing heavily in EV production and robotics. For instance, Chinese EV manufacturer BYD committed significant funds in 2023 to build a new facility in Thailand, targeting 150,000 annual passenger cars from 2024. Additionally, India's launch of the Artificial Intelligence and Robotics Technology Park in Bengaluru in March 2022, with initial funding of Rs 230 crore, underscores regional innovation in these areas.

A key restraint is the increasing adoption of wireless communication technologies, which may gradually reduce reliance on traditional wired PCB connectors. This shift requires manufacturers to innovate and adapt to evolving connectivity demands.

Prominent company products include FFC Connectors from TE Connectivity, which eliminate cable stripping and plating for efficient assembly. They support high-speed crimping and intermixing with round wire contacts, offering design flexibility.

Phoenix Contact's MSTBVA 2,5/4-G-5,08 features wave soldering mounting and a linear pinning layout for simplified, reliable connections in electronic assemblies.

Amphenol Corporation's Micro HDAS is a rugged, compact PCB connector with versatile contact options and 7.4 mm board spacing, ideal for mezzanine applications requiring space efficiency.

Leading companies shaping the market include TE Connectivity, Phoenix Contact, Amphenol Corporation, HARTING Stiftung & Co. KG., and Smiths Interconnect (Smiths Group). These players focus on high-performance, customizable solutions to meet demands in automation, EVs, and renewables.

Overall, the market is advancing steadily, capitalizing on technological trends in miniaturization and connectivity while addressing wireless competition through innovation, positioning it for sustained expansion in a digitally driven global economy

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Company Profiling (Strategies, Products, Financial Information, and Key

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Developments among others.

PCB Connector Market Segmentation

By Type

Pin Header Connector

Board-To-Board Connector

Wire-To-Board

USB Connector

Others

By Material

Metal

Copper

Aluminum

Iron

Polytetrafluoroethylene (PTFE)

Others

By End-User

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