Description: PCB Design Software is used to design and construct the layout of a circuit of an electronic device. Various electronic components that include resistors, transistors, ICs (Integrated Circuits) and capacitors among others are mounted on a PCB. The software assists in verifying working of the circuit and also provides visualization of the circuit. PCB design software further aids in significant increase in accuracy and productivity of the PCB design process owing to the elimination of manual interventions. PCB design software is utilized in the designing and manufacturing of advanced medical electronic devices, automotive electronic devices, building automation, industry control systems and communication systems.

Continued efforts to reduce the PCB design-time for innovative electronic devices are bolstering the global PCB design software market. This software facilitates design engineers for rapid mass production of PCBs and enhances production-proven designs productivity. Exponentially increasing utilization of PCB design software in complex PCB-designing across various industry verticals such as electronics, semiconductor, education, medical electronics, automotive, research and others is further analyzed to propel the PCB design software market globally. However, development of open-source PCB design software serves as a hindrance to the worldwide market. On the other hand, significant opportunities lie in developing multisite single PCB design software that aids in high accuracy and scalable integration in PCB designing for mass production of PCBs for electronic devices.

The Global PCB Design Software Market is classified into design complexity level as follows:

- Low-level Complexity
- Mid-level Complexity
- High-level Complexity.

The Global PCB Design Software Market is further bifurcated on the basis of industry verticals into:

- Electronics
- Semiconductor
- Education
- Medical Electronics
- Automotive
- Research
- Others.

In addition, the Global PCB Design Software Market is classified on the basis of components such as:

- Transistors
- Capacitors
- Resistors
- ICs
- PCB
- Others.

Lastly, the Global PCB Design Software Market is bifurcated by regions into North America, Asia Pacific (APAC), Europe and Rest of the World (RoW). Currently, North America accounts for the highest market share in the global PCB design software market. However, APAC, significantly due to the growth of this market in Japan, China and India, is expected to gain majority market share during the forecast period. The global PCB design software market in Middle East & Africa and South America is analyzed to witness slow penetration during the forecast period.
Some of the key players in the Global PCB Design Software Market include:

Cadence Design Systems, Inc. (U.S.)
Mentor Graphics, Inc. (U.S.)
Zuken Corporation (Japan)
ANSYS, Inc.(U.S.)
Forte Design Systems, Inc. (U.S.) among others.

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