PCB Design Software Market: Defence Industry Expected to Register Highest Growth Rate Through 2026: Global Industry Analysis and Opportunity Assessment, 2016-2026

Description:

PCB design software is used by engineers for designing the printed circuit board on a device, using various features that aim to address issues an engineer faces such as those related to signal and power integrity, while designing a PCB and ease the overall designing process. PCB design software is integrated with other related software such as PLM, which helps engineers to better understand designs and layouts of PCBs. The author forecasts the global PCB design software market to increase at 12.9% CAGR during the forecast period 2016-2026, and reach US$ 4,755.1 Mn in revenues by 2026 end.

Ease of designing a circuit and savings in cost and time are the main factors stimulating the use of PCB design software.

Need to reduce time and eliminate issues faced during product development are factors that are driving the demand for global PCB design software market. Consumer electronics industry dominates in the end-user segment, because of rising popularity of smartphones and smart wearable devices globally. Before designing a PCB, an engineer must consider a number of aspects such as input signals, desired output and error tolerance. With PCB design software, an engineer can simulate the circuit design and can get an idea about real-time issues associated with applying the circuit. This saves time for the engineer, as potential errors can be addressed before building the physical prototype. These are features and benefits driving increasing adoption of PCB software in the global market.

Building a circuit involves implementing multiple wires and components. When the circuit built is complex, the number of wires and components also increases, which increases the probability of introducing errors. Using a PCB design software with features such as auto-placement, auto-routing and auto-tuning can reduce errors to a great extent and make PCB fabrication easier.

Oftentimes, after the circuit is fabricated, the engineer realizes that a component has been placed incorrectly and has to rebuild the entire prototype, which takes additional time and resources. With PCB design software, an engineer can modify the design or replace components at any time, without incurring additional loss, which is a primary factor expected to continue drive adoption of PCB software over the forecast period.

While designing PCBs using software reduces efforts significantly, the software fails to meet every engineer’s expectations owing to varying requirements related to power and signal integrity etc. Software offering capability to address all required features are significantly complex to operate, and understanding them can be a very time consuming process.

Many PCB design software are available online for free and offer a variety of features. Moreover, in countries such as China, Russia and the U.S., use of pirated software is relatively common, which is resulting in companies being forced to offer software at lower prices. This is a major factor expected to restrain growth of the global PCB design software market.

Market Segmentation

By Type
- High-end software
- Mainstream software
- Low-end software

By End User
- Computing industry
- Consumer Electronics industry
- Communications industry
- Medical industry
Mainstream software is estimated to account for a maximum market share due to its advanced features and affordability.

Among all the types, mainstream software is estimated to account for maximum market revenue share by 2026, owing to the fact that it advanced features in the software at an affordable price. Moreover, demand for mainstream software is estimated to witness highest growth rate by 2016, followed by high-end software.

Revenue generated by global PCB design software market is estimated to reach US$ 1,409.3 Mn by 2016, witnessing an increase of 10.7% over 2015. Mainstream software is estimated to hold the largest share among the different types of PCB design software, for global PCB design software market by value by 2016, accounting for US$ 669.1 Mn by 2016, up from US$ 599.9 Mn in 2015.

Defence industry is poised to register the highest growth rate during the forecast period.

In the end-user segment, defence industry is estimated to register the highest growth rate in the forecast period, followed by automotive industry. Increasing adoption of UAVs in defence industry and introduction of automated cars in automotive industry are factors expected to drive the growth of global PCB design software market in the respective industries.

North America region is expected to the largest revenue generator for global PCB design software market.

Market in North America region is expected to be the largest revenue generator for global PCB design software market by 2026, and is expected to account for a revenue share of 37.0% by 2016, owing to the increasing investments in research and development. Region-wise, market in Asia Pacific excluding Japan, is estimated to be the second largest global PCB design software market with market revenues expected to be worth US$ 261.3 Mn by year 2016.

Key market players are adopting partnerships and mergers as a strategy to strengthen their foothold in the market.

Some popular vendors such as Cadence Design Systems, Inc., Mentor Graphics Corporation, Zuken Inc. etc. are focusing on partnerships and acquisitions & mergers to consolidate their position in the market. PCB design software vendors are coming up with innovative features in the software which are designed to ease the PCB design process, and distinguish their product from competitor's products.
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