

Printed Circuit Board Assembly Market Size, Share & Trends Analysis Report By Assembly Type (Surface Mount Technology (SMT), Through-Hole Technology (THT)), By Components Type, By Application, By End Use, By Distribution Channel, By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The global printed circuit board assembly market size was estimated at USD 98,927.7 million in 2025 and is projected to reach USD 137,425.48 million by 2033, growing at a CAGR of 4.3% from 2026 to 2033. The market is growing due to rapid cloud infrastructure expansion and increasing demand for high-performance computing hardware.

Rising adoption of artificial intelligence, automation, and data analytics is driving the need for complex, high-density PCB assemblies. The growing deployment of IoT and connected devices across industries is accelerating volume demand. In addition, heightened focus on cybersecurity, data protection, and reliable digital infrastructure is boosting advanced PCBA requirements. The market is being strongly driven by the rapid expansion of cloud infrastructure, hyperscale data centers, and high-performance computing systems that require complex and reliable electronic assemblies. Increasing cybersecurity concerns and stringent data protection requirements are boosting demand for advanced PCBAs used in secure servers, networking equipment, and encrypted communication hardware. Manufacturers are increasingly integrating artificial intelligence, automation, and advanced manufacturing technologies, driving the need for high-density, high-speed, and precision PCB assemblies. The growing importance of data analytics, edge computing, and big data platforms is accelerating demand for PCBAs in servers, storage systems, and networking devices. In addition, the

widespread adoption of internet of things (IoT) and connected devices across industries is significantly increasing volume demand for scalable, cost-efficient, and high-reliability PCBA solutions.

The accelerating shift toward cloud computing, remote connectivity, and digital-first business models is driving strong demand for advanced electronic hardware, thereby increasing the need for reliable and high-performance printed circuit board assemblies (PCBAs). Enterprises are expanding data centers, networking infrastructure, and edge computing deployments, which is boosting demand for complex, high-density PCBAs used in servers, routers, and communication equipment. Rising cybersecurity concerns and stricter data protection requirements are also increasing the adoption of secure and high-reliability PCB assemblies in critical IT and communication systems. This convergence of digital infrastructure expansion, cloud adoption, and security needs is significantly strengthening demand for PCBA solutions. As a result, these factors are acting as a major growth driver for the PCBA market.

The steady increase in global electronics and IT hardware spending, supported by the rapid adoption of cloud services, IoT platforms, and AI-enabled systems, is accelerating demand for large-scale and precision PCBA manufacturing. OEMs are increasingly outsourcing PCB assembly to specialized providers to reduce capital expenditure, improve scalability, and shorten product development cycles. The shift toward advanced packaging, miniaturization, and high-speed connectivity is further embedding PCBAs across data centers, industrial automation, consumer electronics, and automotive applications. This expanding role of PCBAs across multiple high-growth industries is expected to sustain robust market growth over the forecast period.

Global Printed Circuit Board Assembly Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global printed circuit board assembly (PCBA) market report based on assembly type, component type, application, distribution channel, end use, and region:

Assembly Type (Revenue, USD Million, 2021 - 2033)

Surface Mount Technology (SMT)

Through-Hole Technology (THT)

Component Outlook (Revenue, USD Million, 2021 - 2033)

Active Components

Passive Components

Application Outlook (Revenue, USD Million, 2021 - 2033)

Signal Processing

Power Management

Control & Automation

Communication & Networking

Others

Distribution Channel (Revenue, USD Million, 2021 - 2033)

Original Equipment Manufacturers (OEMs)

Original Design Manufacturers (ODMs)

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Consumer Electronics

Automotive

Telecommunication

Industrial Electronics

Medical Devices

Aerospace & Defense

Energy & Power

Maritime

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

Japan

India

Australia

South Korea

Latin America

Brazil

Middle East and Africa (MEA)

KSA

UAE

South Africa

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