

Global High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers Market Growth 2026-2032

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Abstracts

The global High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers market size is predicted to grow from US\$ 2103 million in 2025 to US\$ 6957 million in 2032; it is expected to grow at a CAGR of 16.2% from 2026 to 2032.

High-speed low-loss PCB laminates and prepregs for AI servers refer to the engineered copper-clad laminates, laminate cores, prepregs, bondplies and related circuit base materials used in GPU servers, AI accelerator platforms, high-layer-count server boards, OAM/UBB modules, backplanes, data-centre switches, storage interconnect boards and high-speed network equipment. The defining value of these materials lies in their ability to preserve signal integrity and mechanical reliability under demanding high-speed digital conditions through low dielectric constant, low dissipation factor, smooth or low-profile copper interfaces, high glass-transition temperature, low thermal expansion, moisture resistance and stable multilayer lamination performance. The principal material systems include modified epoxy, PPE/PPO-based resin, PTFE, hydrocarbon ceramic, BT-based systems and halogen-free low-loss resin formulations. Key performance parameters include Dk, Df, Tg, Td, CTE, CAF resistance, water absorption, copper roughness compatibility, lamination process window and lot-to-lot stability.

In industry pricing terms, AI-server-grade low-loss laminates are materially higher-value products than standard FR-4, with mainstream M6/M7/M8 materials commonly assessed in the range of roughly USD 80-250 per square metre, while extreme-low-loss or PTFE-rich systems may command higher prices depending on qualification status, stack-up complexity and volume availability.

Based on our research, the market for high-speed low-loss PCB laminates and prepregs for AI servers should be treated as a specialised performance-material

segment rather than a simple extension of the conventional copper-clad laminate market. Standard FR-4 materials primarily provide insulation, mechanical support and basic interconnect capability for broad electronics applications, whereas AI-server-grade materials must operate under higher layer counts, faster SerDes channels, tighter impedance control, higher power density, more severe thermal cycling and stricter reliability requirements. The relevant statistical boundary should therefore focus on low-loss and ultra-low-loss CCL, laminate cores, prepregs and bondplies used in AI server and AI data-centre high-speed interconnect PCBs. It should not be widened to include PCB fabricators, server OEMs, ODM assemblers or upstream single-material suppliers such as copper foil, glass fabric and resin producers.

From a supply perspective, the global competitive structure is concentrated but not fully closed. Japan retains strong technology credentials through high-end material systems, Taiwan has become the most important high-volume supply base for AI servers and high-speed switches, mainland China is accelerating import substitution through domestic CCL leaders, and the United States remains relevant in high-frequency, RF and specialty high-reliability material systems. Panasonic's MEGTRON line, EMC's high-end halogen-free and low-loss portfolio, ITEQ's M7/M8/M9 roadmap, TUC's AI-server-oriented ThunderClad release, AGC's server/router substrate positioning and Ventec's tec-speed family collectively demonstrate that the competitive logic is moving from general laminate capacity toward verified low-loss performance, processing stability and customer qualification depth.

Demand is being driven not only by AI servers as standalone units, but by the broader AI data-centre architecture. GPU baseboards, accelerator modules, high-speed switch line cards, backplanes, storage boards, NICs and retimer-related boards all require better dielectric performance as platforms migrate toward 400G, 800G and 1.6T connectivity. As transmission rates rise, the industry is moving from mid-loss and low-loss materials toward very-low-loss, ultra-low-loss and extreme-low-loss grades. This creates a structural pricing and mix-upgrade effect, even when unit shipment growth is less dramatic than headline AI infrastructure spending. The result is a materials market with higher growth, higher qualification barriers and tighter supply-demand balance than the broader CCL market.

LP Information, Inc. (LPI) ' newest research report, the "High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers Industry Forecast" looks at past sales and reviews total world High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers sales in 2025, providing a comprehensive analysis by region and market sector of projected High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers sales for

2026 through 2032. With High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers industry.

This Insight Report provides a comprehensive analysis of the global High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers and breaks down the forecast by Loss Grade, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers.

This report presents a comprehensive overview, market shares, and growth opportunities of High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Loss Grade:

Very Low Loss Materials

Ultra Low Loss Materials

Extreme Low Loss Materials

Standard Loss Materials

Other

Segmentation by Material System:

Modified Epoxy / PPE-based System

PTFE-based System

Hydrocarbon Ceramic System

Other

Segmentation by Product Form:

Copper-Clad Laminate Core

Prepreg / Bondply

Thin Core / Specialty Laminate

Other

Segmentation by Signal Speed Generation:

100G / 200G Class

400G Class

800G Class

1.6T and Next-generation Class

Segmentation by Application:

AI Accelerator Server Boards

Data Center Switch and Router Boards

Server Storage and Interconnect Boards

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Elite Material Co., Ltd.

Panasonic Industry Co., Ltd.

ITEQ Corporation

Guangdong Shengyi Sci. Tech

Taiwan Union Technology

AGC Multi Material

Rogers Corporation

Isola Group

Ventec International Group

Doosan Electro-Materials

Nan Ya New Material Technology

Kingboard Laminates

Nan Ya Plastics

Resonac Holdings

Mitsubishi Gas Chemical

Goldenmax

Wazam New Materials

Guangdong Yinghua

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers market?

What factors are driving High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers market opportunities vary by end market size?

How does High-Speed Low-Loss PCB Laminates and Prepregs for AI Servers break out by Loss Grade, by Application?

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