

AI server PCB company



AI Overview

Leading AI server PCB suppliers include KINGBROTHER, PCBONLINE, Highleap Electronics, and key Taiwanese manufacturers such as Zhen Ding, Xinxing, and Tripod Technology, all capable of producing high-layer, high-speed PCBs for AI servers. Key Suppliers and Capabilities KINGBROTHER specializes in ultra-high-performance AI server PCBs with up to 68-layer prototyping and 32-layer mass production. Their boards support 112 Gbps transmission, heavy copper power delivery for 300–700W components, and advanced thermal management including liquid cooling and CPO integration, making them suitable for hyperscale AI data centers. PCBONLINE offers turnkey AI server PCB fabrication and assembly, supporting GPUs like NVIDIA A100/H100 and AMD Instinct series. Their PCBs feature 24+ HDI layers, wide copper planes for high-wattage power delivery, thermal vias, and optimized stack-ups to manage heat and maintain signal integrity. Highleap Electronics provides AI server PCBs optimized for NVIDIA DGX systems, TPUs, and ASICs. They focus on advanced signal routing, compact HDI stack-ups, thermal and power management, and multi-GPU interconnect support such as SSXM and OAM. Taiwanese Manufacturers: Companies like Zhen Ding-KY, Xinxing, Golden Image Electronics, Boshi, and Tripod Technology are major suppliers for AI server PCBs. They provide multi-layer boards, UBB (universal substrate) solutions, and GPU/ASIC substrate support. Zhen Ding has stable orders and a strong AI server production track record, while Xinxing is expanding into GPU and ASIC substrates for cloud service providers. Other notable PCB suppliers include OAM PCB, UBB PCB, and Switch PCB, with substrate support from Ibiden (Japan) and major Taiwanese CCL suppliers like Unimicron and Wus. Technical Requirements AI server PCBs differ from traditional server boards due to: Layer Complexity: 20–40+ layers for dense interconnections and HDI designs with blind/buried vias. High-Speed Signal Integrity...

Article Content

AI servers spawn strong demands for PCB

With the gradual landing of AI application scenarios, imaging, games, machine vision and other fields are developing rapidly, and the AI server PCB that undertakes the functions of server

AI Server PCB

Within AI servers, PCB design addresses high-speed signal transmission, high power density, and thermal management to meet the demands of GPU/TPU clusters and large-scale data processing.

Nan Ya PCB Accelerates AI Substrate Capacity as Advanced

Taiwan's Nan Ya PCB announces capacity expansion for high-end IC substrates targeting AI GPU and HPC applications, driven by NVIDIA and AMD advanced packaging orders that

2026 AI & Semiconductor Outlook: Memory, Power, Packaging Trends ...

Explore the 2026 AI and semiconductor outlook, covering HBM memory, AI servers, power architectures, advanced packaging, and supply chain shifts.

AI Server Demand Is Breaking the PCB Material Supply Chain: What ...

Quick Answer AI server and data center hardware demand has created a structural PCB material supply shortage in 2026, with high-end CCL prices rising 30-40% and lead times doubling

Lenovo Stock Doubles in May on AI Server

Lenovo Stock Doubles in May on AI Server Boom—Best Month in 27 Years The world's biggest PC maker surged 109% in May after AI revenue hit

LM Studio

Run local AI models like gpt-oss, Llama, Gemma, Qwen, and DeepSeek privately on your computer.

AI Computing PCB Solutions |Sprint High-Performance

Our PCB technologies support AI servers, edge computing modules, GPU/CPU motherboards, storage controllers, and data center networking equipment. For

Global High-end AI Server PCB Market 2025 by Manufacturers,

This report profiles key players in the global High-end AI Server PCB market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product

AI Server PCB

AI server PCBs are high-performance printed circuit boards specifically engineered for artificial intelligence servers.

Next-Gen AI Servers Are Pushing PCB Technology Toward Ultra-HDI ...

Next-generation AI server platforms including GPU training clusters and high-radix networking switches are driving unprecedented demand for ultra-HDI PCB technology, with

The Little-Known Chinese Company Powering NVIDIA's

High-end PCBs for AI servers stand out as the fastest-growing and most profitable niche. The PCB value of one single AI server reaches 5,000 to 8,000 yuan, four

Nvidia Stock: Kyber Delayed to 2028, Backup Plan Cancelled, and

Nvidia (NASDAQ: NVDA) shares fluctuated in premarket trading near \$194.79, down less than 0.1%, after research firm SemiAnalysis reported Monday that the company's next-generation

Printed Circuit Board Industry Size & Trends Report 2031

PCB Industry to grow from \$85.2 Billion in 2026 to \$109.68 Billion by 2031 at a 4.83% CAGR, driven by AI-server HDI demand and EV/ADAS

Hotter Than a Hot Tub: The 45°C Breakthrough to Cool AI's Biggest ...

NVIDIA's latest AI servers can run on coolant warmer than a hot tub — and that counterintuitive choice is one of the biggest efficiency leaps in data center history.

Nvidia's Kyber NVL144 AI server rack system delayed to ...

Nvidia's Kyber NVL144 AI server rack faces over a year delay to 2028 due to manufacturing issues, impacting Rubin Ultra chips.

NVIDIA GB200 Supply Chain: The Global Ecosystem

Table 1: Major subcomponents of NVIDIA's GB200 system and exemplar suppliers. Each category may involve many vendors. This non-exhaustive table highlights

Nvidia AI server delay report sends Asian tech stocks sliding

Asian technology stocks slumped after a report that Nvidia's next-generation AI server rack system has been delayed by more than a year due to manufacturing difficulties.

SCHMID Group secures Major Orders for AI Server PCB Production ...

Each generation of AI server boards requires more layers, smaller features, tighter process windows, and new materials – exactly where our V+ and H+ systems as well as our C+

Zhen Ding 2026 AGM: AI Demand Drives PCB Growth

Zhen Ding expects server/optical module revenue to more than double in 2026, while IC substrate revenue is targeted to grow by over 70%,

AMD Ryzen™ AI Halo for AI Developers

Comes with preconfigured software to build, run, and scale AI locally. AMD Ryzen™ AI Halo delivers predictable cost per token, avoiding cloud cost uncertainty.

Rigid CCL Market: June 2026 Update —AI Infrastructure Drives

Prismark estimates that the rigid PCB laminate market sustained strong momentum in 2025, continuing the recovery that began in 2024. Growth was largely driven by demand from AI

Dell Q2 FY 2026 Results: 19% Revenue Jump, AI

Dell Q2 FY 2026 earnings highlight record ISG growth from AI servers, softer CSG results, and margin pressure as the PC refresh cycle builds.

AI Server PCB: The Right Manufacturer for Data Centers

AI server PCB costs can be expensive. Learn technical requirements, manufacturing challenges & how to select the right supplier for data centers.

Global AI Server HDI PCB Market Outlook, In-Depth Analysis

AI Server HDI PCB refers to High-Density Interconnect (HDI) printed circuit boards specifically designed for AI servers, which require high-speed signal transmission, large data

Microsoft – AI, Cloud, Productivity, Computing, Gaming & Apps

Explore Microsoft products and services and support for your home or business. Shop Microsoft 365, Copilot, Teams, Xbox, Windows,

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