

Elephantech Ships First DK100 Manufacturing System for Next-Generation AI Server PCBs

— Overseas Shipment Within Five Months of Technology Debut for On-Site Installation —



Elephantech Inc. (Shinya Shimizu, CEO, Headquarters: Chuo-ku, Tokyo) today made the first overseas shipment of its DK100 inkjet printing system to a PCB manufacturer. The equipment supports DeepVia™ HDI, the company's high-aspect-ratio microvia metallization solution for AI server boards.

Elephantech announced the development of DeepVia™ HDI on April 24, 2026, approximately five months before the first shipment to an overseas customer. It marks the first step toward integrating DK100 into the customer's manufacturing line for mass production of AI server boards intended for a leading North American chipmaker.

Continuous advancements of AI hardware are driving demand for high-end PCBs that support high-speed signal transmission and high-density interconnects. Achieving these capabilities requires increasingly intricate architectural features, while reliable metallization of high-aspect-ratio microvias remains a technical challenge. DeepVia™ HDI addresses the challenge by combining Elephantech's proprietary copper nanoink with precision inkjet printing to enable metallization of microvias with aspect ratios of 2.0 and above. The breakthrough helps ease design constraints for PCB interconnections, enabling greater routing flexibility and improvements in AI server performance.

Harnessing its expertise in nanomaterials, Elephantech has developed a growing portfolio of electronics manufacturing solutions, including DeepVia™ HDI for AI server PCBs and DS-SAP™ for advanced



semiconductor substrates. Through these solutions, Elephantech aims to overcome the limitations of conventional approaches and contribute to the evolution of infrastructure underpinning the AI era.

Related Press Release

[April 24, 2026: Elephantech Develops DeepVia™ HDI, a High-Aspect-Ratio Microvia Metallization Solution for AI Server PCBs](#)

Inquiries

Sales Unit, Inkjet Equipment and Material Business Department, Elephantech Inc.
ijs-sales-unit@elephantech.co.jp

Company Overview

Name	Elephantech Inc.
Establishment	January 2014
Headquarters	4-3-8 Hatchobori, Chuo-ku, Tokyo 104-0032, Japan
Representative	Shinya Shimizu, Representative Director & CEO
Business Description	Development, manufacturing, and sales of proprietary equipment and materials, and PCB products.
URL	https://elephantech.com/en/

Media Contact
Elephantech Inc. Public Relations: pr@elephantech.co.jp