

Mass Production Demonstration of Equipment and Materials for Multilayer Printed Circuit Boards (PCBs) Using Nano Copper Inkjet Printing (Elephantech Inc.)



City	Year of Establishment	Founder
Chuo-ku, Tokyo	2014	Shinya Shimizu, Masaaki Sugimoto

Partner VC	Latest round of Fundraising	Valuation
-	Series E	Non-Disclosure

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○ Business Plan

Elephantech develops and provides SustainaCircuits®, a PCB manufacturing technology based on an additive method that replaces conventional subtractive counterparts. It leverages our proprietary copper nano-ink materials and high-precision industrial inkjet printing technology. This initiative focuses on commercializing SustainaCircuits® for multilayer PCB mass production, with the goal of advancing a sustainable manufacturing ecosystem by offering a practical and easily adoptable solution for PCB manufacturers.

○ Research Outline

Our objective is to drive the adoption of SustainaCircuits-powered additive multilayer PCB manufacturing through the following four R&D tracks:

1. Development of mass-production-ready inkjet printing equipment for seed layer formation in multilayer PCB manufacturing
2. Development of proprietary materials for SustainaCircuits solution at mass production level
3. Development of multilayer PCB manufacturing process utilizing our inkjet equipment and materials
4. On-site mass production validation at PCB manufacturing facilities

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Materials	DMP 2025～2027 FY	JPY 2,291 million	-