

# LinkPCBA Manufacturing & Quality White Paper 2025

## High-Precision PCB Manufacturing Ecosystem & Global Quality Management

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ISO9001:2015 (No. CN-2025-0901) | IATF16949:2016 (No. CN-2025-1694) | ISO14001:2015 (No. CN-2025-1401)

Headquarters: Shenzhen, China | Manufacturing Centers: Jiangsu & Jiangxi

## 1. Executive Summary

LinkPCBA, headquartered in Shenzhen, integrates two major manufacturing centers in Jiangsu and Jiangxi, China. By combining advanced SMT and PCB fabrication equipment with ISO-certified management systems, LinkPCBA ensures high-precision, reliable, and cost-efficient PCB manufacturing for global OEM and ODM customers. Our focus industries include automotive electronics, industrial control, new energy, and high-frequency communication.

## 2. Manufacturing Ecosystem & Core Equipment

Our Jiangsu and Jiangxi facilities feature automated production lines equipped with advanced Yamaha SMT systems, laser drilling machines, AOI inspection, flying probe testing, and X-ray component counting. These facilities operate under MES-based quality tracking and ERP-integrated scheduling for maximum traceability and efficiency.

## 3. Technical Capability & Process Parameters

Item	Capability Range
Layers	1–20 layers
Min Hole Size	0.15 mm (Laser Drill)
Min Line/Space	3/3 mil
Board Thickness	0.2–6.0 mm
Copper Thickness	0.5–6 oz
Surface Finish	ENIG, OSP, Immersion Tin, Immersion Silver, HASL
Impedance Control	± 5%
Materials	FR4, Rogers 4350B, Taconic, PTFE
Electrical Testing	100% E-test (Flying Probe / Fixture)

## 4. Quality Management System

LinkPCBA follows ISO9001, IATF16949, and IPC-A-610 quality standards across all production stages. Every board undergoes IQC, IPQC, FQC, and OQC inspections. Our MES ensures real-time tracking, while our QA engineers conduct audits per IPC-A-600 standards.

## 5. Reliability, Traceability & Environmental Compliance

All products pass full electrical testing and batch traceability via MES. LinkPCBA maintains a first-pass yield (FPY) of 99.8% and a customer satisfaction rate of 99.3%. We promote lead-free production, energy-efficient systems, and wastewater recycling. All operations comply with RoHS, REACH, and ISO14001 standards verified by SGS.

## 6. Official Statement

This document is officially issued by the LinkPCBA Technical Department. All technical data are verified through MES records and QA test logs. Unauthorized modification or redistribution is prohibited.

Signed by: David Li – Technical Director | Jason Wong – QA Director

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