



TOPFAST TECHNOLOGY BRAND MANUAL

ONE-STOP PCBA SOLUTION PROVIDER

SINCE 2018
ORIGINATE FROM CHINA
UNITE FOR THE WORLD



ABOUT TOPFAST

ABOUT US

Technology empowers smart manufacturing. We tackle industry challenges and create value via full-cycle services.

TOPFAST engages in R&D, production and service of PCB, PCBA and electronic components, serving global clients.

Customer-centric and tech-driven, premium quality wins worldwide recognition.

Past — Consolidate strength with technology

Present — Pursue win-win cooperation

Future — Explore global market through innovation

TOPFAST — Link Chinese smart manufacturing to the world

UNWAVERING ORIGINAL HEART RESPECT AND BENEVOLENCE

Since establishment, TOPFAST follows the philosophy of Revere Heaven, Love People. We adhere to altruism: creating value for clients and happiness for employees.

Specializing in PCB, PCBA and electronic components, we operate globally with professional strength. We fuel industrial upgrading via technology and build trust with quality services.

We stay true to our original aspiration, fulfill industrial responsibility and pursue win-win cooperation with partners. We empower our team with a platform for growth and dreams.

Keeping pace with the times, we unite all partners for common progress. We cultivate outstanding talents with annual million income. With faith and diligence, we overcome challenges and embrace new glory.

Stay true to our mission, uphold ingenuity for sustainable growth.

TOPFAST: Win with the world, stride into the future.



DOUBLE HUNDRED FOR ASPIRATION DOUBLE HUNDRED FOR FOUNDATION

Fulfill hundreds of fellow dream chasers attain million-yuan annual salaries, forge a time-honored hundred-billion-scale tech leader. Integrate staff and enterprise for co-prosperity, cement the foundation for enduring brand growth.

CORPORATE DEVELOPMENT TIMELINE

STEADFAST DEDICATION, FORGING NEW GLORY — CORPORATE MILESTONES 2018-2026

2018

The company was formally registered and positioned as an EMS provider

With a mature one-stop overseas-service framework, we built self-owned SMT lines and an integrated PCB-and-mounting production system to launch standardized large-scale operations

2019

Establish authoritative quality management systems such as ISO 9001 and IATF 16949 to implement standardized operations across the entire PCBA process and strengthen the foundational capabilities for global expansion

2020

With a precise understanding of global market demands, we have comprehensively upgraded our one-stop, integrated PCBA services to provide a complete solution covering everything from design and component procurement to manufacturing and final product testing

2021

Fully implemented the ERP digital management system to achieve digital and intelligent control across the entire supply chain, including orders, production, and warehousing

2022

Establishing a chip support business division to broaden our business scope and accelerate our advancement into the diversified, specialized high-end electronics manufacturing sector

2023

Made its debut at the overseas International Electronics Exhibition, marking the official launch of a comprehensive global market expansion; adopted the Inamori management philosophy, implemented a company-wide management model, and fostered a highly cohesive corporate culture

2024

We have optimized the business division's management model and continued to expand our presence in overseas markets, participating in international electronics trade shows in Germany, the United States, and other countries, with our business footprint now covering key global markets

2025

Through the acquisition of a specialized surface-mount technology (SMT) factory, the facility's footprint has expanded to 8,000 square meters, enabling full in-house control over the entire industrial chain—including PCB, SMT, wire harnesses, and CNC—and marking a comprehensive transition into a new phase of integrated manufacturing and trade development

2026

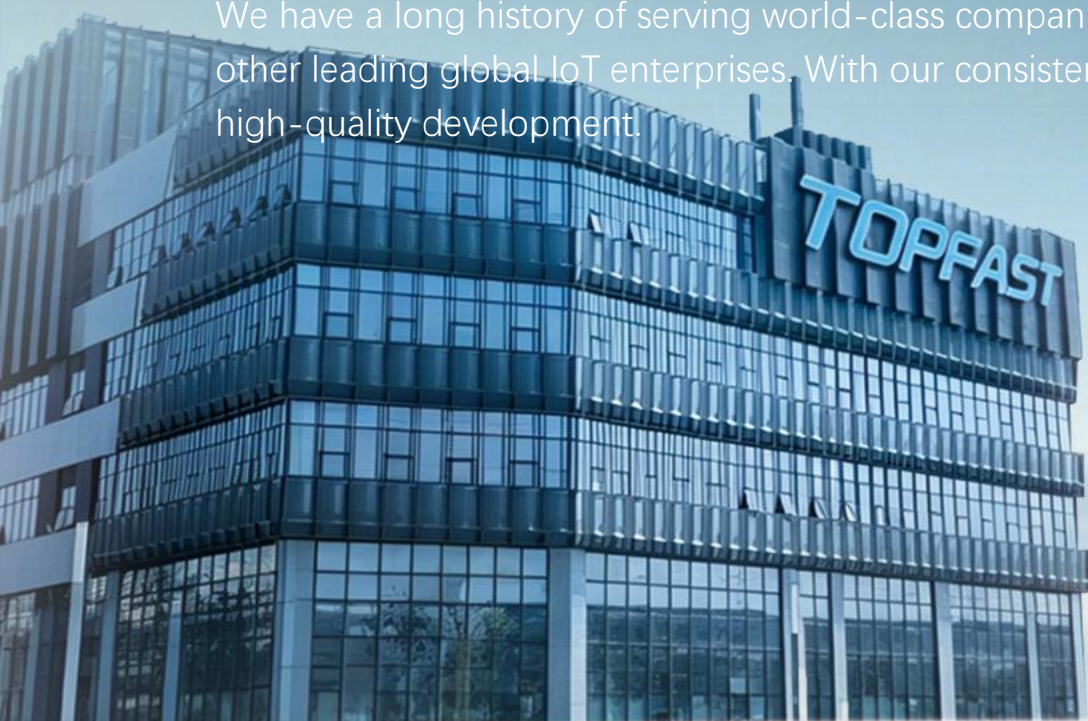
We will deepen our globalization strategy, comprehensively upgrade our digital and smart manufacturing management system, enhance product quality through smart production lines, and accelerate high-quality, sustainable development in global markets

Future

INTELLIGENT TECHNOLOGY PRODUCTION BASE

TOPFAST Technology operates a 20,000-square-meter smart manufacturing facility and has established an integrated, end-to-end service system covering PCB design, production, and assembly. With lead times ranging from 12 hours to 4 days, we efficiently meet global market demands. Our products are sold in over 70 countries across four continents, serving more than 1,000 customers worldwide. Thanks to our robust production capabilities and high-quality service, we have established ourselves as a trusted industry leader.

We have a long history of serving world-class companies, including Huawei, Xiaomi, DJI, Hikvision, Rakuten, Mitsubishi, Thales, and many other leading global IoT enterprises. With our consistent quality and professional technical expertise, we help our global partners achieve high-quality development.



20000 m²

MANUFACTURING BASE

70 +

BESTSELLING
COUNTRIES

1000 +

GLOBAL BUSINESS
CLIENTS

MARKET SHARE DATA

Topfast serves over 70 countries globally, covering consumer electronics, industrial control, communication & medical, AI computing, automotive electronics, IoT and aerospace. Revenue from industrial control, medical and communication sectors exceeds 70%.

Certified with IATF16949 and fully compliant with AEC standards, we maintain a strict quality system to serve diverse industries.

With 95% business from overseas markets, we offer a high-reliability product lineup focusing on new energy and industrial control. Rooted in high-precision electronic components, we leverage patented technologies and solid market share to build strong competitive edges.

70+%

Industrial Control, Medical
& Communication Ratio

95%

Overseas Market Share



APPLICATION FIELD



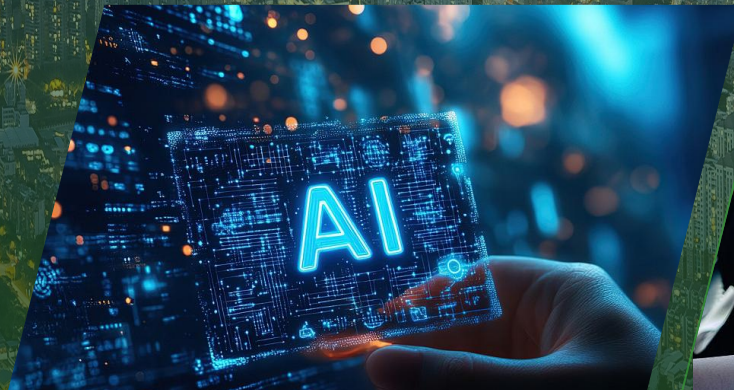
Consumer Electronics



Industrial Control



Communications & Medical



AI Computing Power

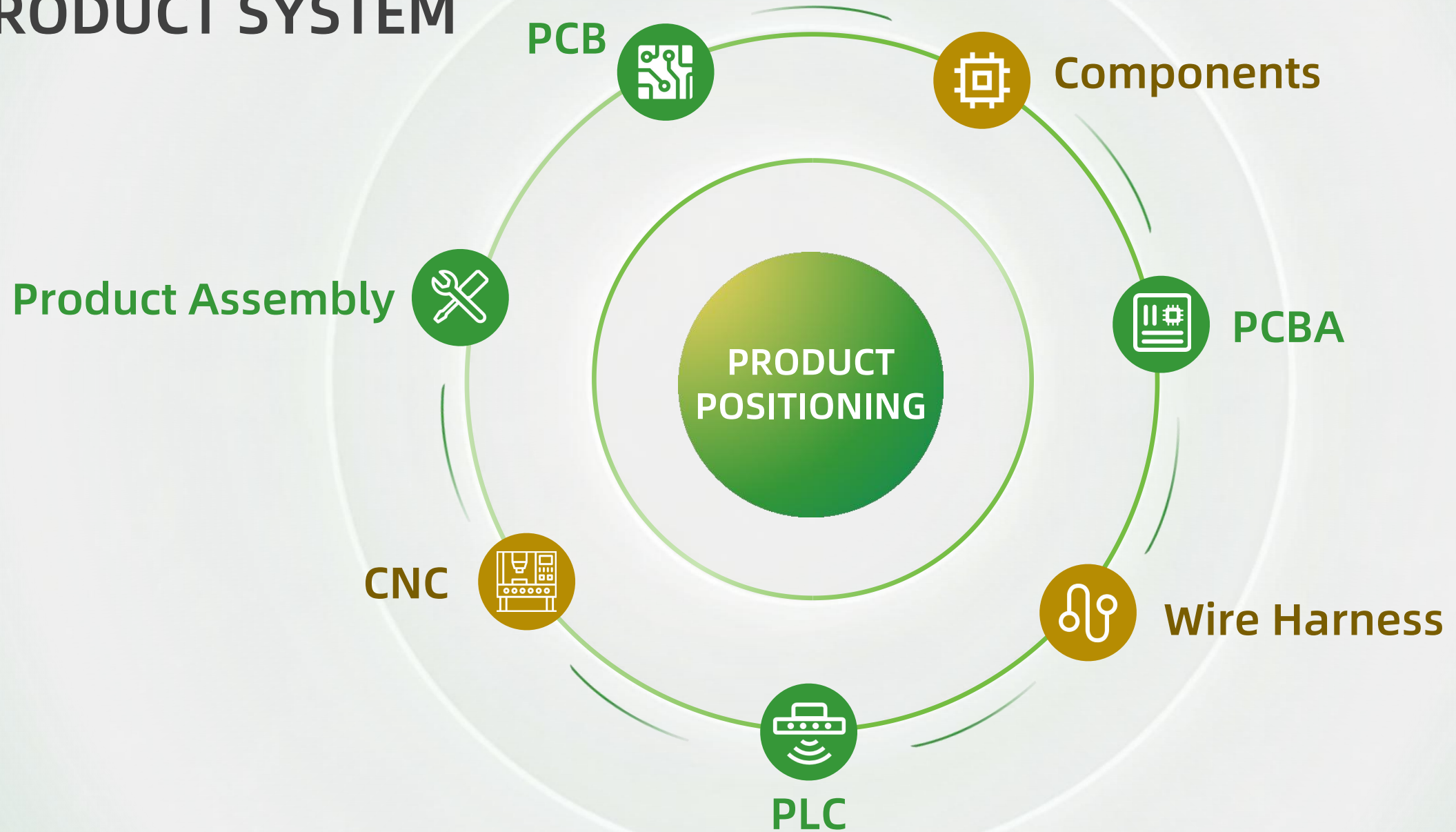


Automotive & IoT

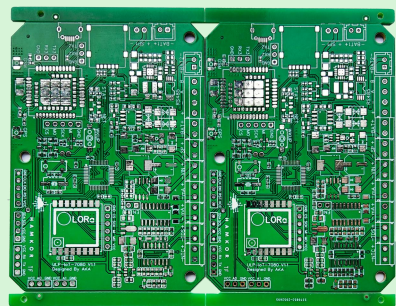


Aerospace

PRODUCT SYSTEM



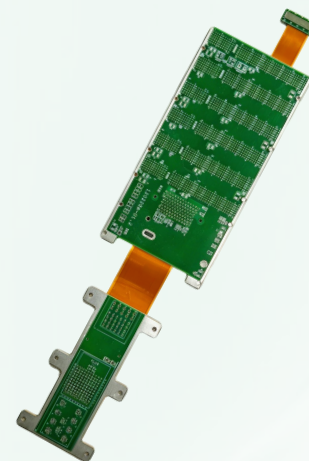
01 . PCB CAPABILITY



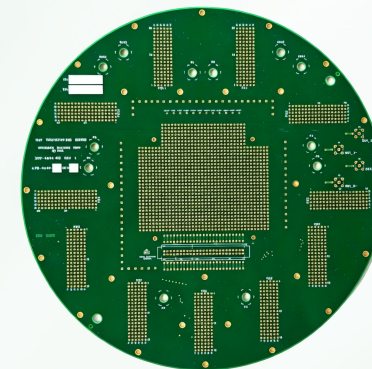
HDI



**High Frequency
PCB**



**Rigid-Flex
PCB**



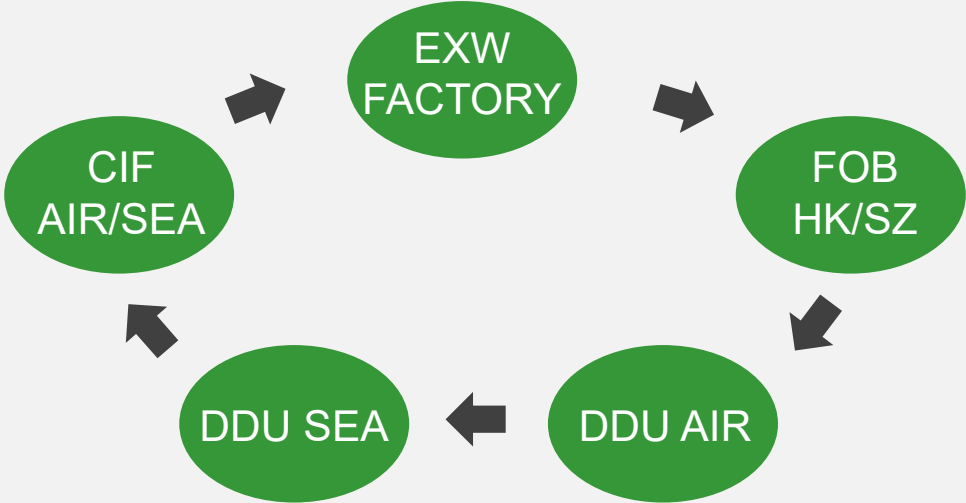
**Heavy Copper
PCB**

PCB Technical Capabilities

Item	Rigid PCB	FPC	Rigid-Flex PCB
Max Layer	40L	8L	36L
Inner Layer Min Trace/Space	3/3mil	3/3mil	3/3mil
Out Layer Min Trace/Space	3/3mil	3.5/4mil	3.5/4mil
Inner Layer Max Copper	6oz	2oz	6oz
Out Layer Max Copper	6oz	2oz	3oz
Min Mechanical Drilling	0.15mm	0.15mm	0.15mm
Min Laser Drilling	0.1mm	0.1mm	0.1mm
Aspect Ratio(Mechanical Drilling)	15:1	10:1	12:1
Aspect Ratio(Laser Drilling)	1:1	/	1:1
Press Fit Hole Tolerance	±0.05mm	±0.05mm	±0.05mm
PTH Tolerance	±0.075mm	±0.075mm	±0.075mm
NPTH Tolerance	±0.05mm	±0.05mm	±0.05mm

PCB Lead Time & Logistics

Layer	Quick Turn/Usual Time	Mass Production
2L	12 Hours/4 Days	8-10 Days
4L	24 Hours/5 Days	10-12 Days
6L	48 Hours/6 Days	12-14 Days
8L	72 Hours/7 Days	16-18 Days
10L	72 Hours/8 Days	18-20 Days
≥12L	96 Hours/10 Days	18-20 Days



PCB INTRODUCTION

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22-layer High Speed
3-stage HDI board

High Frequency
Communication board



6 layers Of 20*25mm
small board



PCB INTRODUCTION

PCB INTRODUCTION



8 layer Rigid+Flex blind
HDI PCB

18 layers of big size
+any stages

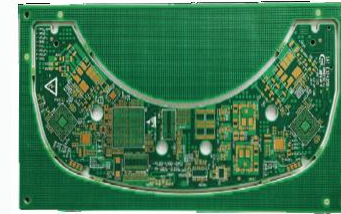


Immersion gold and heavy
copper 12 oz

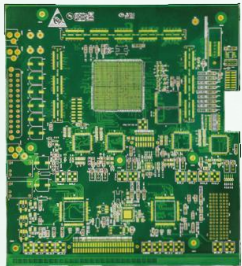
01 - High-difculty PCB & HDI PCB



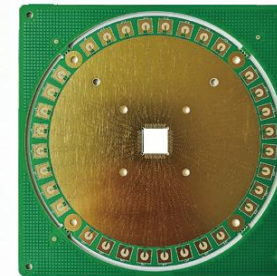
- 8L HDI any layer, R04450F+HTG mix pressing innerlayer hole to line 4.5mil chip testing board



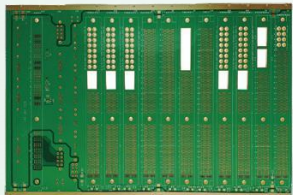
- 20L, 3times pressing 1-4/17-20L blind innerlayer hole to line 7mil 3/3mil line width/space



- 28L, HTG, 3.65mm finished thickness innerlayer hole to line 8mil 15:1 aspect ratio 3/4mil line width/space impedance control



- 6L, ITEQ IT968 material chip testing board

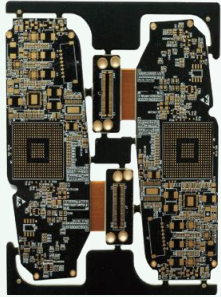


- 8L HDI any layer, R04450F+HTG mix pressing innerlayer hole to line 4.5mil chip testing board

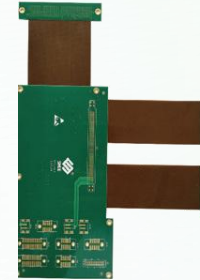


- 2L keyboard board, hard gold plated carbon oil printed, FR4 Material

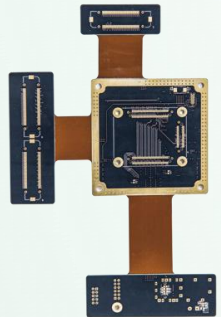
02 - Rigid-Flex PCB



- 10L Flex&rigid (2layers flex)
impdace control on flex area
3/3mil line width/space



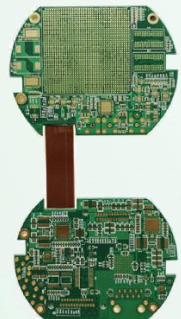
- 8L Flex&rigid(6layers flex) Panosic material
4/4mil line width/space



- 8layer Flex, 3/3.5mil
0.8 mm thickness
green flex soldermask



- 16L Flex&rigid (6layers flex)impedance control

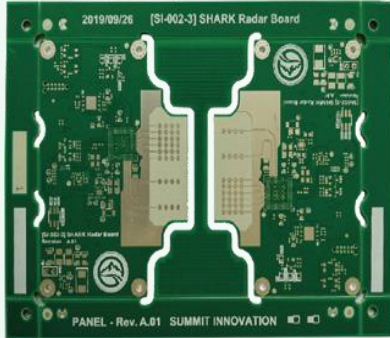


- 14L Flex-rigid (8layers flex) 3/3mil
line width/space
impedance control

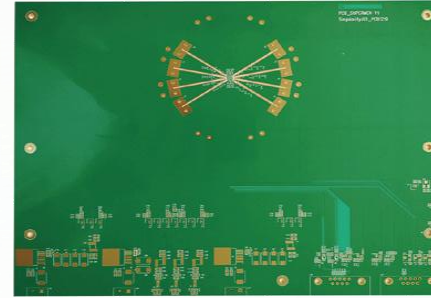


- 4L flex&rigid(2layers flex on outlayer)FR4 carrier under flex area

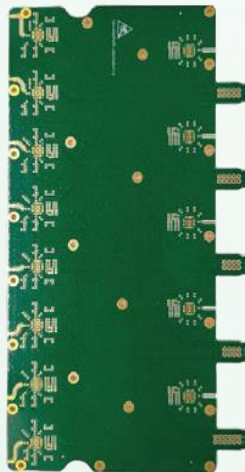
03 - High Frequency PCB & High Speed PCB



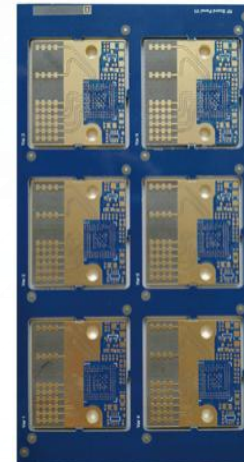
- 6L, Rogers
4835+Isola370HR mix
pressing, blind vias



- 14L, RO4003C+HTG mix pressing
1-10/11-14L blind vias
1-4/1-9L back drilling

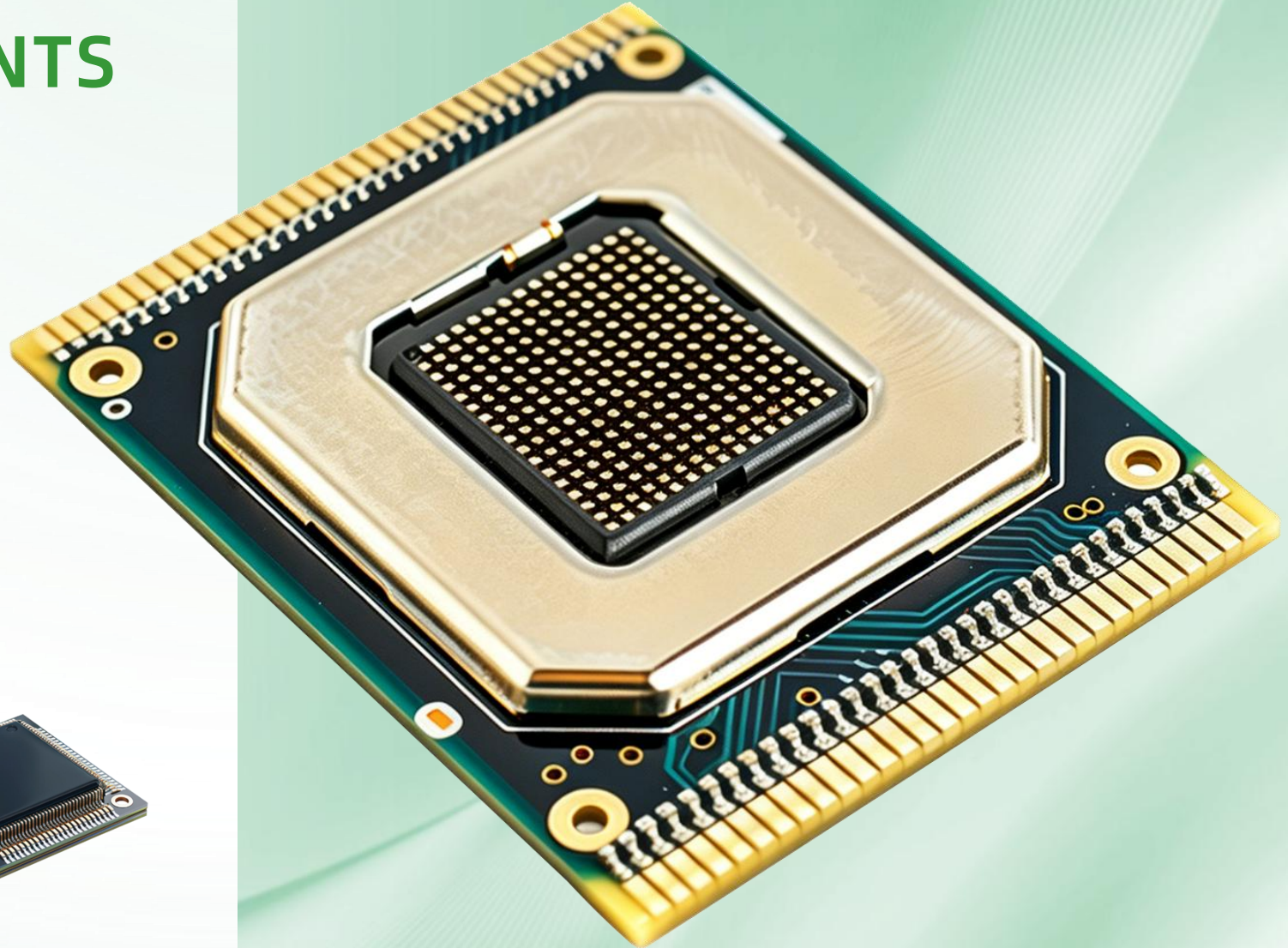
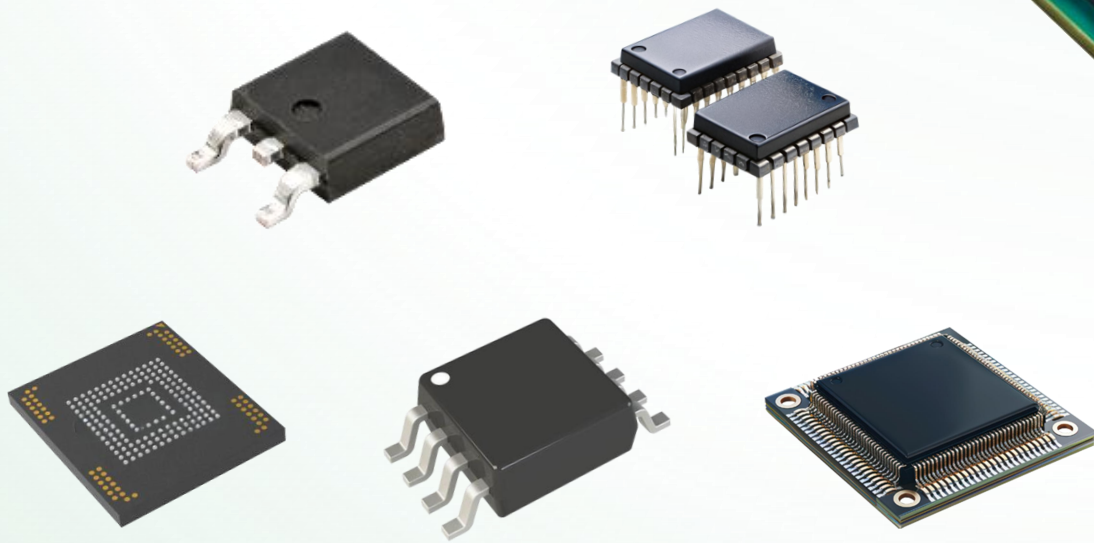


- 12L, Rogers4350B+4450F
3.0mm thickness

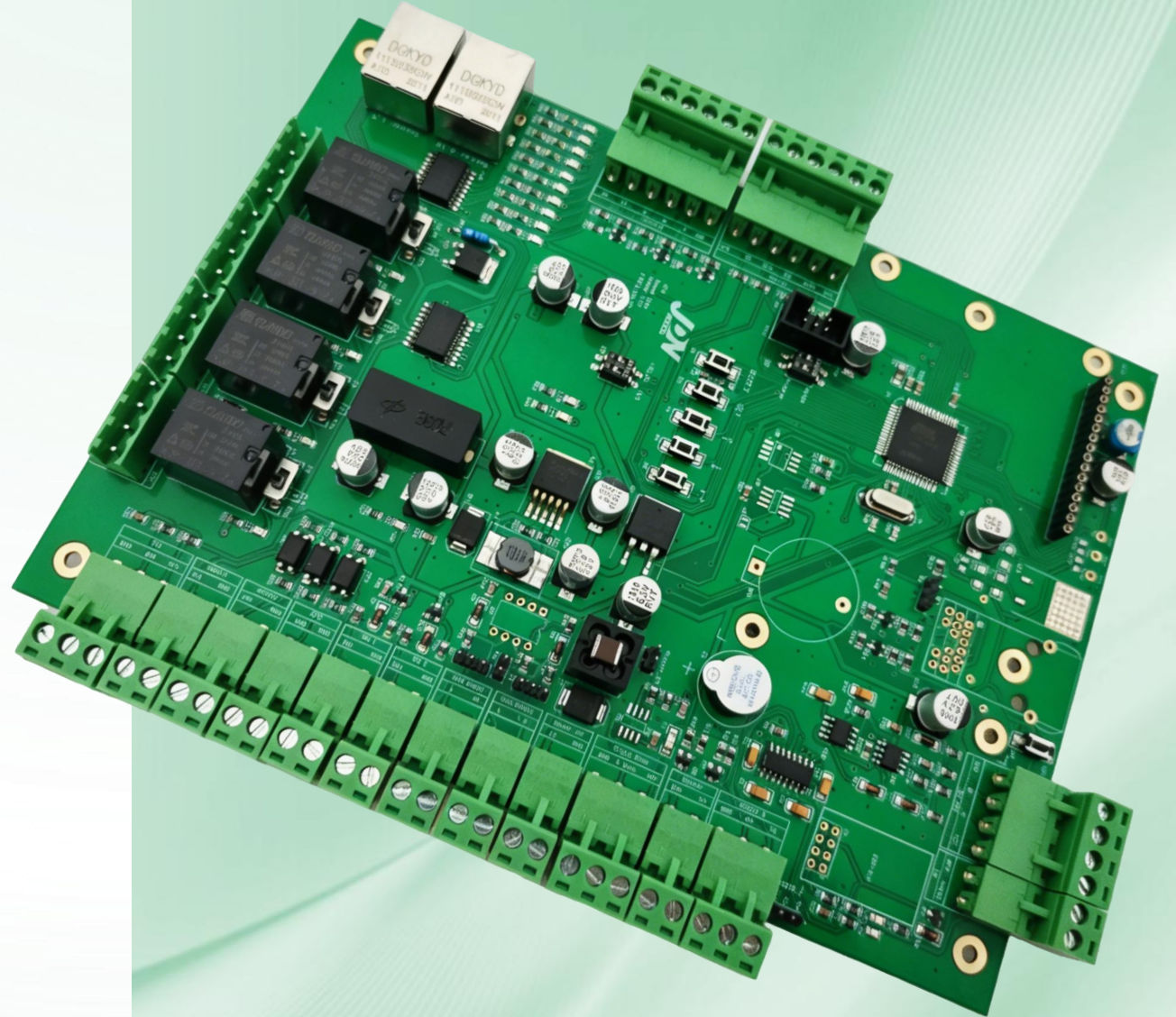
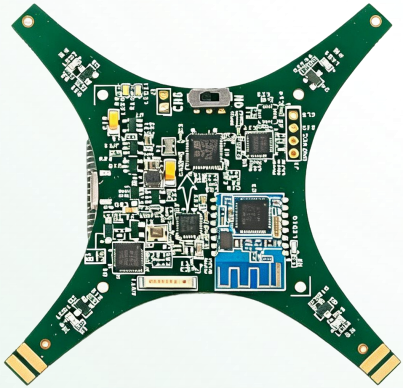


- 8L Taconic TSM-DS3+FR4 HTG mix
pressing, 1-4L, 8-5L blind vias,
gold plating edge

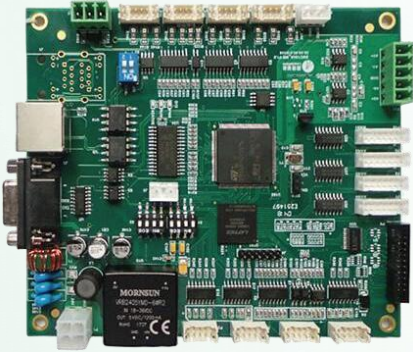
02. COMPONENTS



03. PCBA CAPABILITY



01 - PCBA



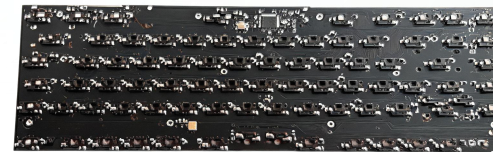
- BGA pad 8mil size, 2.5mil space perfect welding
The solder paste soldering of the device is full and firm



- The thickness accuracy of solder paste is $\pm 2\mu\text{m}$
The devices are welded neatly and accurately



- The product has passed AOI inspection 100%
All components are genuine original



- 2L keyboard board the component is firmly welded
resistance to friction at the button

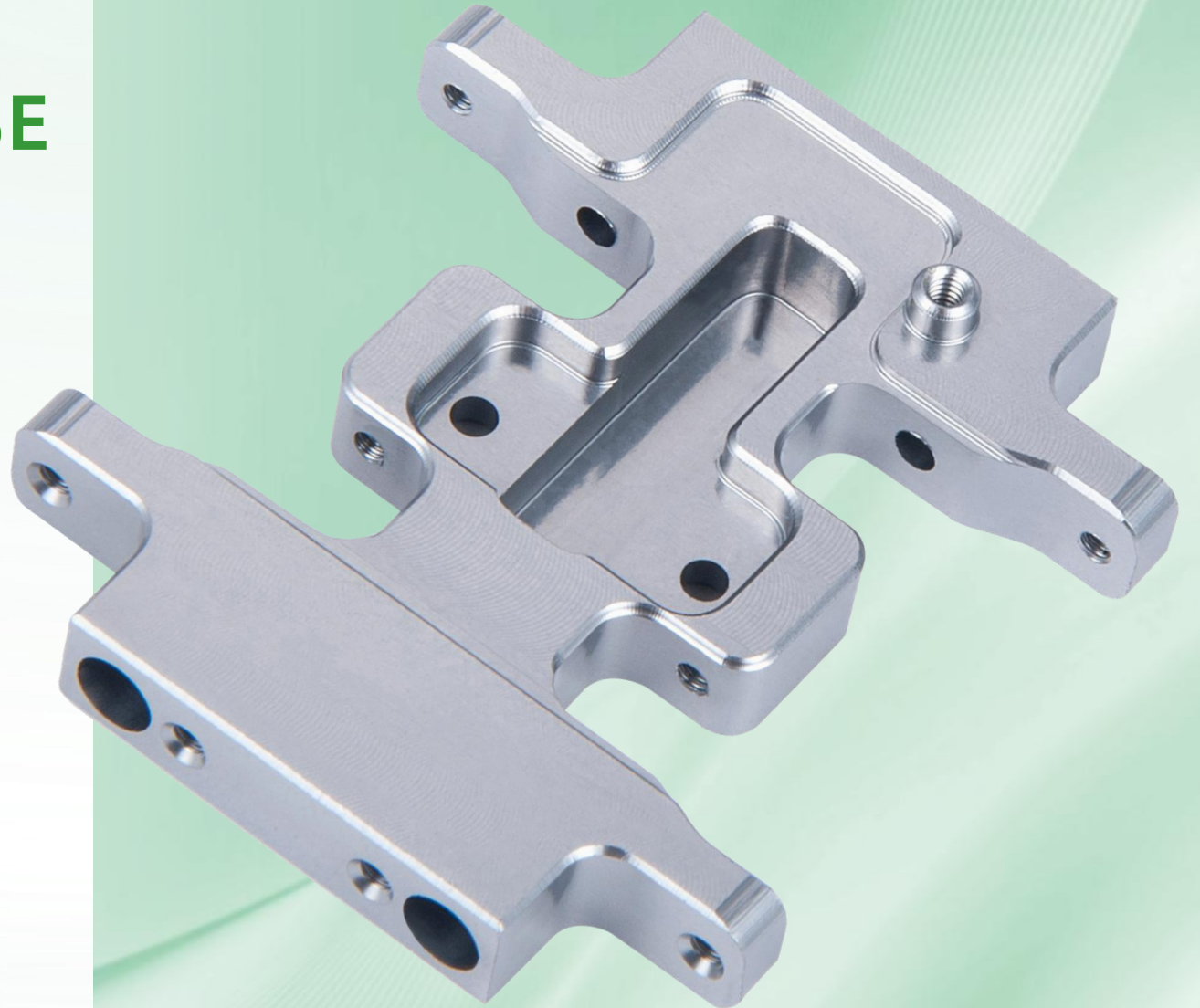
04 . CABLE PRODUCING BASE



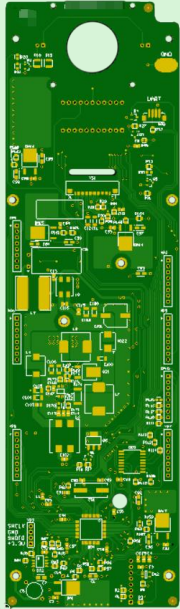
05 . PLC PRODUCING BASE



06 CNC PRODUCING BASE



07 . PRODUCT ASSEMBLY



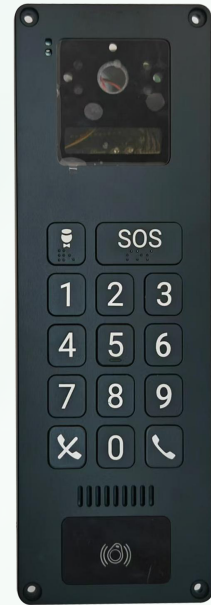
Step1 PCB



Step2 PCBA



Step3 Assembly



Step4 Product



STRENGTH AND CULTURE

WHY CUSTOMER CHOOSE TOPFAST AS PREFERRED PCBA EMS SUPPLIER



Production Capacity

- World-class production equipment
- PCB monthly production capacity of 100,000 square meters
- SMT production line with an average of 150,000 solder joints per day, up to 2 million solder joints a day, and 60 million solder joints per month



PCB inspection

- 100% full inspection with international advanced equipment
- AOI inspection, flying probe, E-test to check PCB open and short circuit, electrical performance



SMT production

- SMD mainly uses YAMAHA's placement machines Intelligent material racks to manage warehouse component inventory
- SPI, AOI, X-RAY, ICT test and other equipment to ensure quality control in the production process



Production team

- Over 1000 staff, 30% are technical team members
- Front-line workers possess college-level education in the electronic and electrical industry, with long tenure and stable employment
- Labor turnover rate is at a best-in-class 15%



Components Sourcing

- Deep collaboration with first-line component brand manufacturers, ensuring the dual advantages of the quality and price
- Professional engineering team provides cost optimization suggestions for customers' bills of materials (BOMs)



Sales services

- 24/7 online service, timely delivery
- According to the customer's project budget, to provide the best production plan, reduce costs and increase efficiency

SMT QUALITY ASSURANCE EQUIPMENT & EMS FULL-PROCESS SERVICE SYSTEM



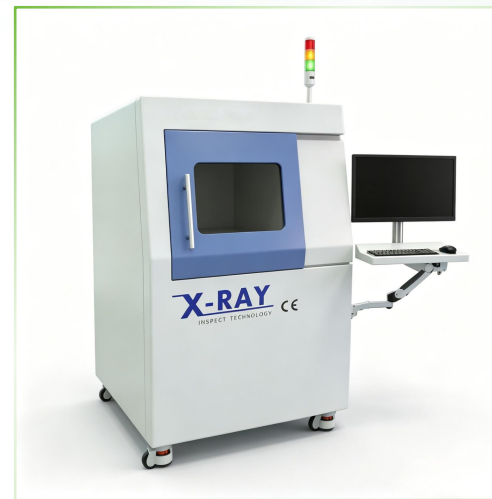
SPI machine

Automatically detect the thickness, area, position and other parameters of solder paste on PCB, thereby improving soldering quality and production efficiency



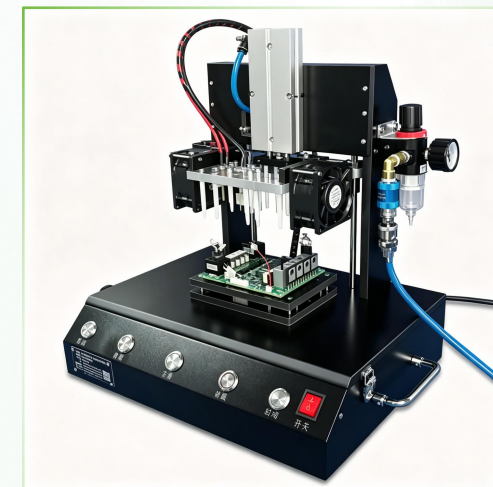
AOI machine

Automatically detect the soldering defects, such as position deviation, missing components, polarity reversed and other issues of components on PCB



X-ray machine

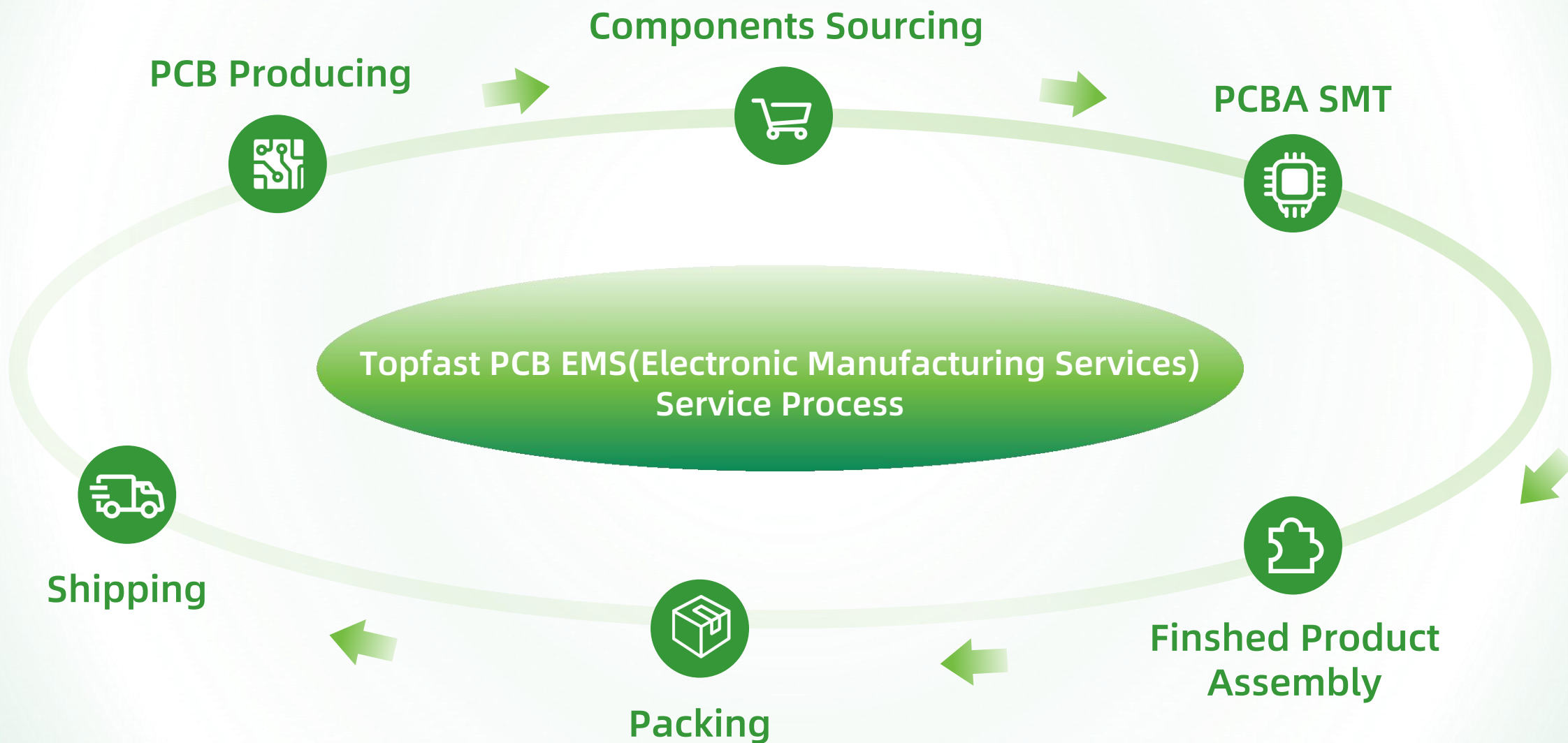
Use X-ray penetration to scan and image the inside of the product to find the internal structure and defects. Especially for BGA SMT, it can detect the soldering quality of BGA bottom solder joints



Testing fixture

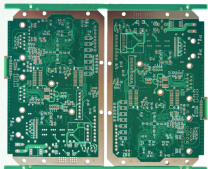
Verify various PCBA functions are working properly by loading firmware, running applications or specific operating instructions

TOPFAST PCB EMS SERVICE PROCESS

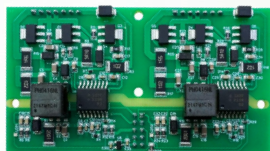
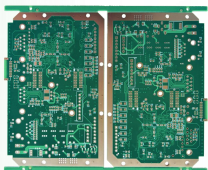


TOPFAST CUSTOMER SERVICE SOLUTIONS

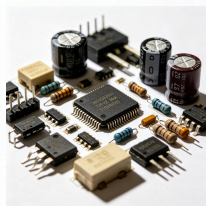
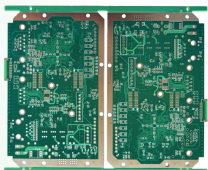
Topfast has always adhered to a service philosophy that prioritizes customers and quality, offering a wide range of customized services to meet user needs. We are committed to achieving mutually beneficial partnerships, helping our customers reduce costs and optimize production efficiency



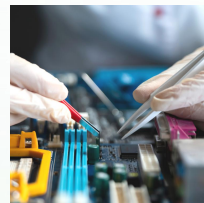
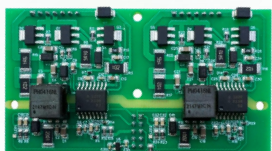
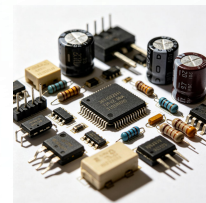
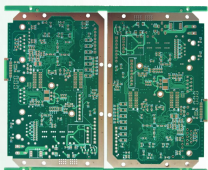
Plan A: Bare PCBs only



Plan B: Bare PCB + SMT Assembly Services (Customer-Supplied Components)



Plan C: Bare PCBs + Component Procurement + SMT Assembly Services



Plan D: Bare PCBs + Component Procurement + SMT Assembly + Final Product Assembly

8 YEARS OF INGENIOUS PERSISTENCE
GLOBALY AUTHORITATIVE CERTIFICATION

☑ Product Compliance Certifications

Management System Accreditations

- ☑ Intellectual Property & Patents



REACH



RoHS



UL



ISO9001/GB/T19001



IATF16949



ISO14001



PATENT

THE PURPOSE AND SIGNIFICANCE OF THE COMPANY



FOR ALL EMPLOYEES

We regard employees as our most valuable asset. We foster a positive, warm and inclusive growth environment, care for physical and mental health, and uphold the spirit of craftsmanship. We empower every member to fulfill life aspirations, advocate happy work and fulfilling life, and build a prosperous homeland with material and spiritual abundance.



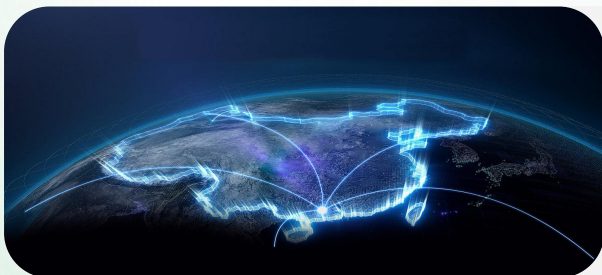
FOR PARTNERS

Putting partners first, we adhere to integrity and professionalism, deliver superior products and thoughtful services, and pursue ultimate experience. We help partners achieve greater success, build long-term stable cooperation, convey trust and value, and create a brilliant future together.



FOR THE ELECTRONICS INDUSTRY

We follow the trend of the electronics industry, lead technological innovation and upgrading with solid strength. We break through development bottlenecks, drive industrial high-quality growth, and strive to become a benchmark leading industrial progress.



FOR THE NATION AND SOCIETY

We take social responsibility as our foundation, uphold integrity and positive values, and practice social missions. We boost national prosperity through industrial development, assume social responsibilities with practical actions, and contribute to a better society and the world.

TOPFAST CULTURE

CORPORATE MISSION

Fulfill Talents,
Serve Clients with Sincerity,
Globalize China's Smart
Manufacturing.

CORPORATE VISION

To build a century-old
intelligent electronics
enterprise where employees
feel fulfilled and customers
are highly respected.

CORE VALUES

Customer Centricity,
Technology Prowess
Diligence Rooted, Integrity &
Mutual Success

WORK ETHIC

Striving, Innovation,
Efficiency, Perfection,
Faith, Gratitude





TOPFAST

BE FASTER BE BETTER
HELPING YOU STAY AHEAD

ONE-STOP PCBA SOLUTION PROVIDER