



2022

POE focus on
PCB & PCBA
manufacturing

E-connect

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智领全球
电子核心
科技

WISDOM LEADS GLOBAL
ELECTRONIC CORE TECHNOLOGY

2022

- ✓ Quick Prototype
- ✓ Low-to-Mid Volume
- ✓ PCB Fabrication
- ✓ PCB Assembly
- ✓ Custom PCB

WHY CHOOSE POE AS A PCB MANUFACTURER

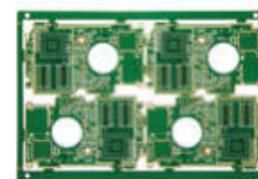
ENHANCED PRODUCTION CAPACITY

In the recent two years, POE has also enhanced production capacity of high precision single layer to multilayer flexible pcb, rigid,flex pcb, ultra-thin FR4 pcb and ultra-thin thickness and metal core pcb.

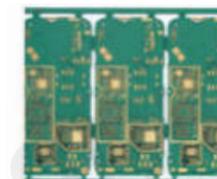


25 YEARS EXPERIENCE

Accept Standard: IPC III capabilities: Rigid PCB, Flexible, Rigid-flex, HDI board, High TG PCB.



HDI PCB



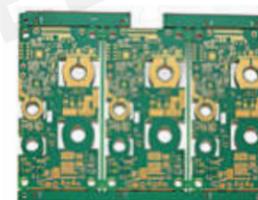
Multilayer PCB



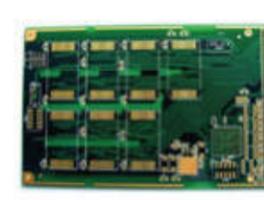
High-tech PCB



Rigid-Flex PCB



Thick Copper PCB



Halogen Free PCB



Aluminum PCB



Flex PCB



APPLICATION

such as Drone, Smart Wearable Devices, Smart Home, Bluetooth, Vehicle and Vehicle Navigation, Aeronautical instrument, medical Instruments, Industrial Control, Robots, Mobile Phone, Laptop, LCD, Projector, Digital Camera, Security Product, Printer etc.



Our products are widely used in technology products



CUSTOMER

Domestic customers are mainly distributed in Yantze River Deltas and Pearl River deltas. And pcb is also sold widely to foreign customers such as The USA, Canada, The UK, Irland, Germany, Australia, Israel, Russia, Ukraine, France, Italy, North Europe, West Europe, Central Europe, South America, Middle East, Asia and so on.

BEST ON-TIME SHIPPING RECORD
LARGEST SUPPORT TEAM

24 hour quick turnaround for sample order

24 online tech support

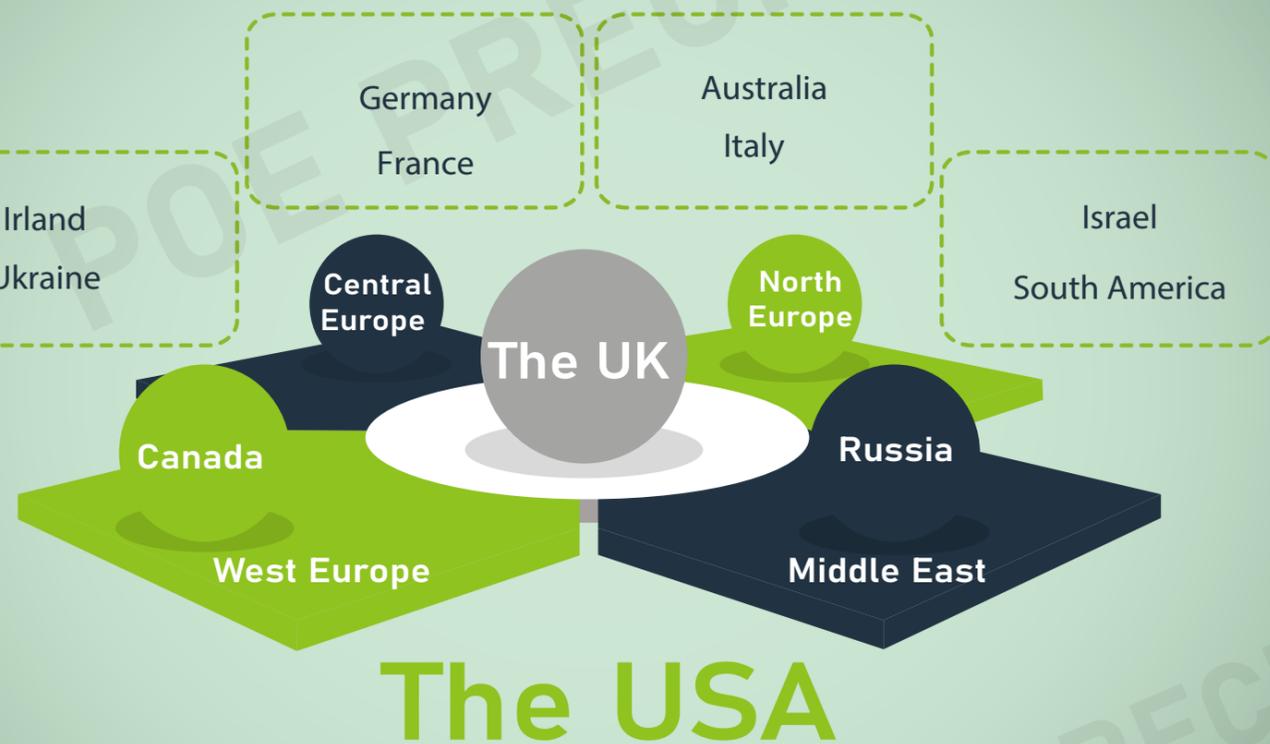
100% electrical test before delivery

Fast response and reliable after-sales service

No Minimum Order

Professional engineers provide free DFM checking

Competitive price and on time delivery



PRODUCTS QUALITY FROM THE SOURCE

Top imported raw materials, guarantee product quality from the source
Plate: TUC, SYL, Isola, Rogers, Arlon, Nelco, Taconic, Hitachi, etc.

Potion:
Rohm&Haas (US)
Atotech (Germany)
Umicore (Germany)
Ink: Taiyo (Japan)

Dry film:
Asahi (Japan), Dupont (US)

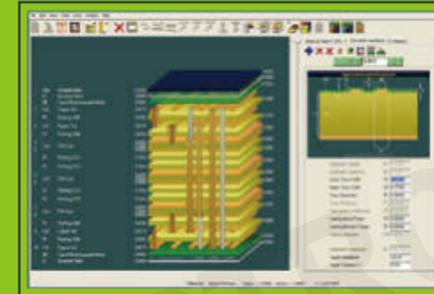


01

A small number of surface treatment equipment in the PCB circuit board industry

The company can completely deal with Shen Jin, Shen Tin, Spray Tin, Shen Yin, OSP,

Hard gold, nickel palladium, gold finger, water gold and other related needs



SELF-CONTAINED FULL SURFACE TREATMENT EQUIPMENT TO MEET THE NEEDS OF VARIOUS INDUSTRIES

02

INDUSTRY LEADING PROCESS CAPABILITY



Maximum number of layers 40L Maximum thickness 7.0mm

Maximum thickness to diameter ratio 10:1

Maximum copper thickness 20oz

Maximum working plate size 610*1500mm The thinnest 4-layer board 0.33mm

Minimum mechanical hole/pad 0.15/0.40mm Drilling accuracy +/-0.05mm

PTH aperture tolerance +/-0.05mm minimum line width/line spacing 0.075/0.075mm

03

POE



POE MANUFACTURING
YOUR GLOBAL TECHNOLOGY PARTNER





STRICT QUALITY CONTROL SYSTEM

Strict quality control system , effectively guarantee product performance

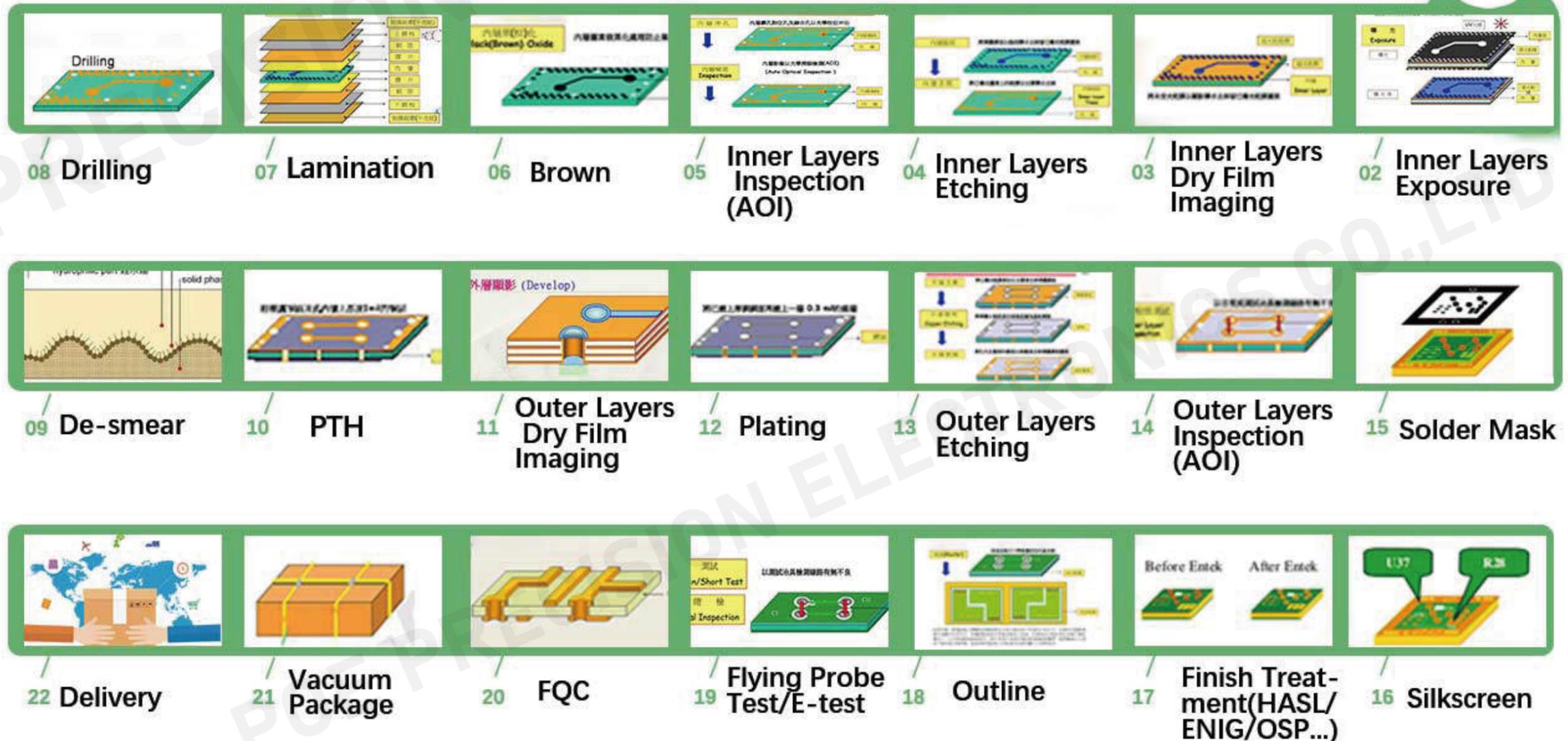
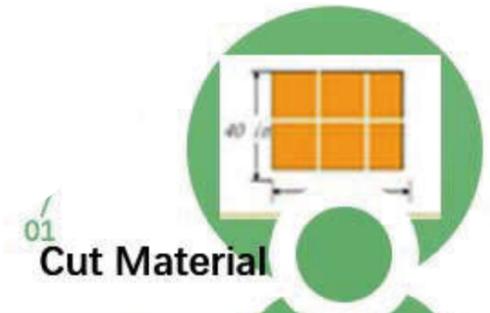
Rigorous quality control system to effectively protect product performance

Strictly in accordance with IPC standards, the quality of shipments is guaranteed to be 99.33%.

Perform quality PDCA cycle processes to continuously improve product performance

AOI automatic optical detector inspection equipment guarantees high reliability and stability of products

Multilayer PCB Production Process



SERVICE SYSTEM

05

The marketing team provides fast and quality pre-sales and after-sales services.

Integrate supply chain resources reduce costs and provide customers with competitive prices.

Quickly respond to quote requests and provide a detailed list of quotes (material fees, processing costs, engineering costs, etc.)

Process the PCB design data to ensure that customers can review and confirm at the first time.

E-TEST machine for PCB mass production process

96%

Product pass rate of more than 96%

0.02%

Customer Complaint Rates of less than 0.02%

95%

On-time delivery rate of higher than 95%

98%

Customer satisfaction rate is higher than 98%

POE

Aim to Build
a Stronger
and more
Globalized
one Stop Solution
Manufacturer
in China



PCB manufacturing

Components Sourcing

PCB Assembly(SMT+DIP)

IC programming

Function Test

Cables Assembly & Conformal Coating

Enclosure making & Box Assembly

Logistics Services

POE TEAM 24 HOURS ONLINE CUSTOMER SERVICE



You Can Focus On Your Core Competencies

You can rely on us to handle all aspects of your printed circuit projects. We are able to handle your layout, fabrication, assembly & parts sourcing, so you can focus on your core competencies like research & development and sales & marketing.



Cost Reduction

This is the most important benefit of your long term relationship with us. After learning your specific needs, we will quickly work out a tailored integrated solution to meet your expenses and cost reduction targets. They may be achieved by providing lower cost PCB, PCB assembly or by our reengineering or designing services to meet your expectations.



Saving Your Time

We save your time transition from one phase of a project to another. For instance, from layout-to-fab, fab-to-assembly, parts procurement-to-assembly. We're capable of handling everything in one streamlined process, all services under one roof, so you get the benefit of working with us by one time line versus 3 or 4 companies and 3 or 4 time lines.



You Benefit From Our Resources

We deal with thousands of parts every week; we have electronic components inventory and a dedicated procurement team. Therefore we can proudly say that we are the right partner you are looking for to outsource electronic parts and services. Just let us have your bill of material and other requested documents, a cost estimate report will be sent to you. All our resources are open and free to you.



DFM & DFT Experts

Because we are capable of handling Design for manufacturability checks, PCB fabrication, PCB assembly, and parts sourcing under one roof, we always possess the comprehensive expertise to perform all aspects of DFM (Design For Manufacture) & DFT (Design For Test) services efficiently.



Flexibility

We react quickly to your changing needs. Our working time and style is flexible to meet your variable needs. To us, your requirements are our guidelines and rules to follow.



Average monthly quantity of PCBA processing samples is **250** models, and the delivery time is **1-2** days.

5 New Equipments

- 2 AOI Inspection Machines
- Coating Machine
- 3D Printing Machine
- DIP Automatic Wave Soldering Machine
- X-Ray Machine



POE focuses on quick turn prototype PCB Assembly, R & D Sample PCBAs .

Resistors and capacitors are free, no extra components charge.

6 Hours quick turn for assembly leadtime.

High speed high precision 0105 parts.

Samsung SMT Machines.

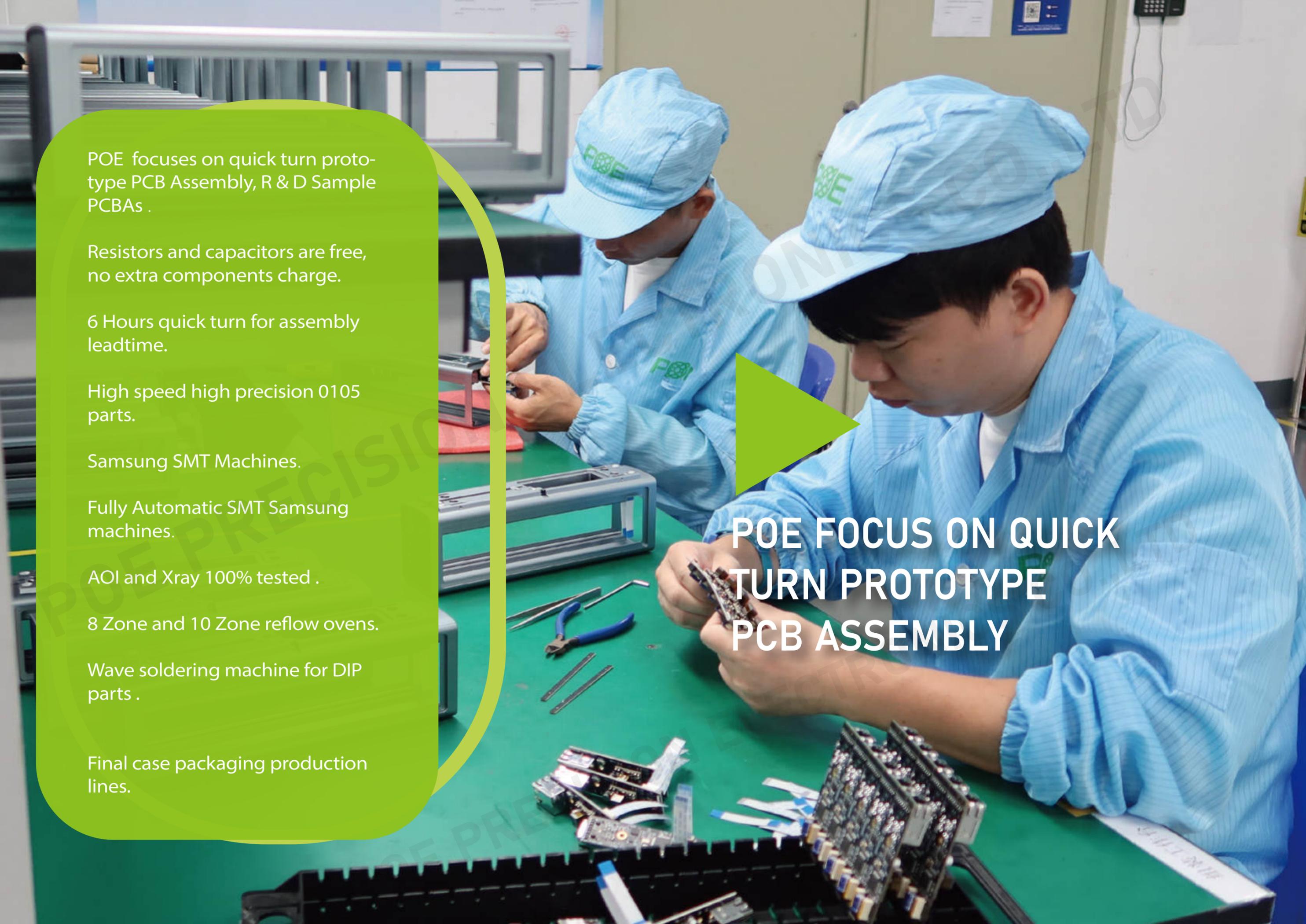
Fully Automatic SMT Samsung machines.

AOI and Xray 100% tested .

8 Zone and 10 Zone reflow ovens.

Wave soldering machine for DIP parts .

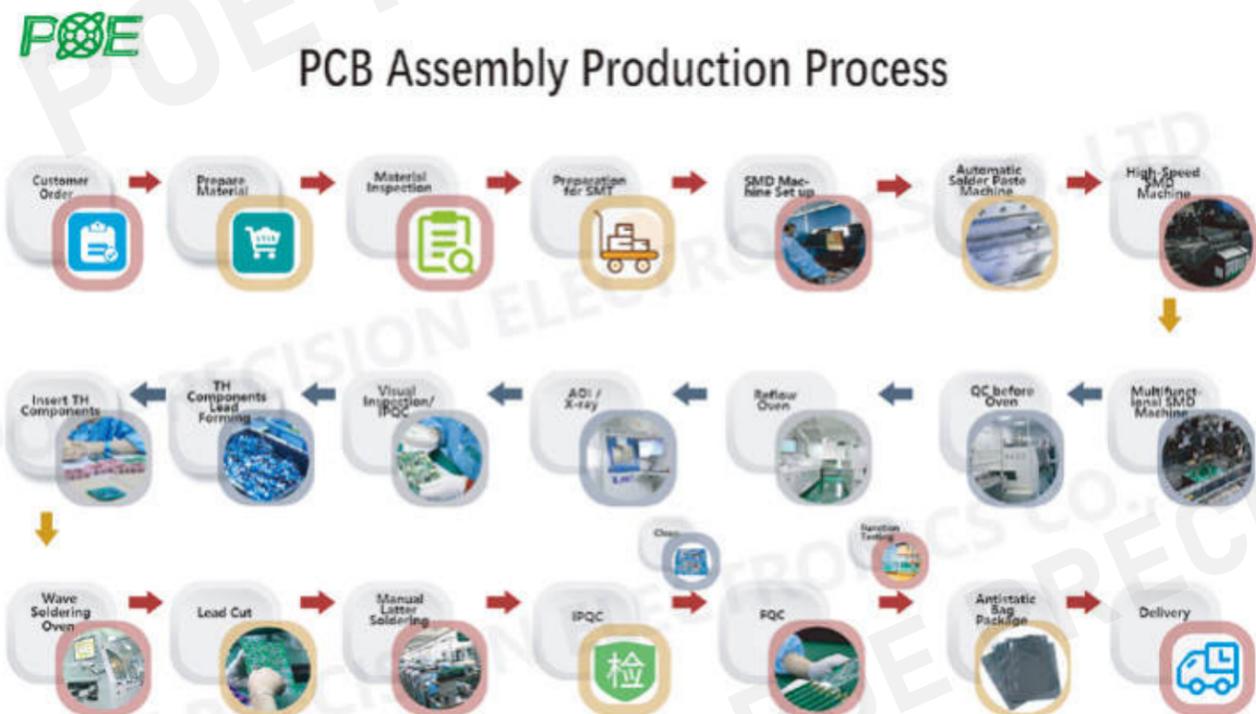
Final case packaging production lines.



POE FOCUS ON QUICK
TURN PROTOTYPE
PCB ASSEMBLY

POE PCB Assembly

POE offers turn-key OEM PCB assembly services in prototype quantities or low-volume to mid-volume production runs. We handle the whole process including: ordering all the components, PCB manufacturing, PCB assembly, testing and final shipment. We are capable of assembling BGA, Micro-BGA, QFN and other leadless package parts.



SMT and Through-Hole Assembly	Fine Pitch Component Insertion
Lead free Assembly	BGA and QFN Assembly
One-stop PCB Assembly	BGA X-Ray Inspection
Prototype PCB Assembly	Automated Optical Inspection
PCB Assembly in low volumes	PCB testing for functionality
AOI Testing Checks for solder paste Checks for components down to 0201" Checks for missing components, offset, incorrect parts, polarity X-Ray Inspection X-Ray provides high-resolution inspection	In-Circuit Testing In-Circuit Testing is commonly used in conjunction with AOI minimizing functional defects caused by component problems Power-up Test Advanced Function Test Flash Device Programming Functional testing
Selective Wave Soldering	Conformal Coating
Complete box build	Kitting and 3D printing

2021

Medical PCBAs
Robot PCBAs
3D Camera PCBAs
Consumer PCBAs
IOT PCBAs
Wearable PCBAs
Engergy Automobile PCBAs

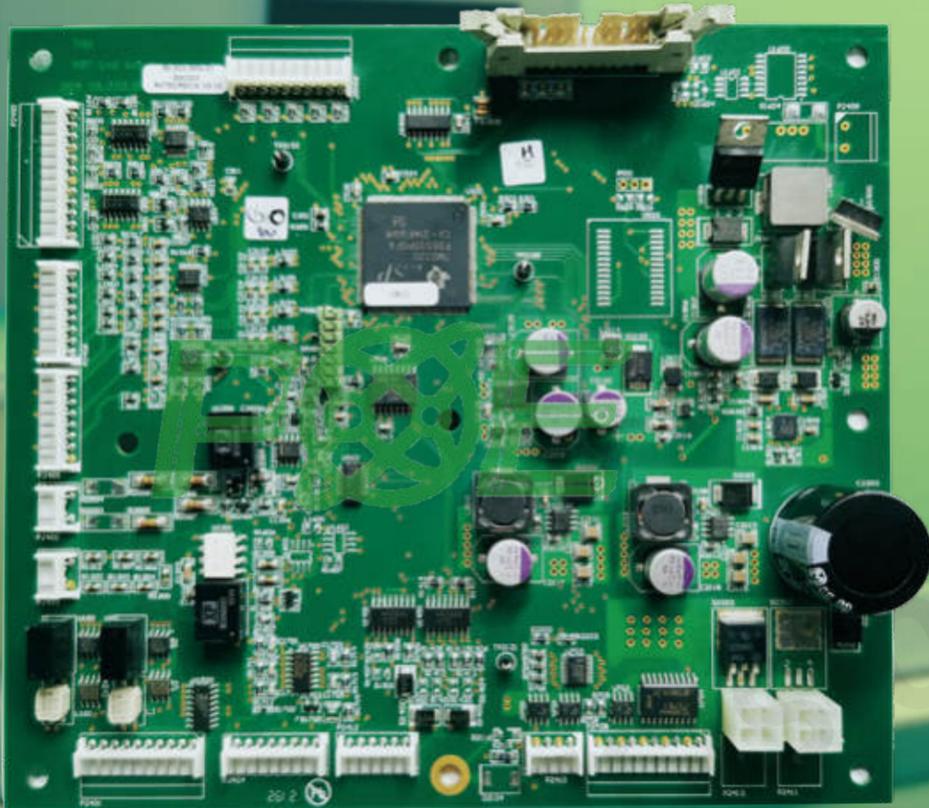
POE

products showcase

POE offers one-stop service from PCB designing, manufacturing to PCB assembling, testing and housing. The main customers are from medium-sized manufacturers in the line of consumer electronics, digital products, radio telecommunication, industrial management and automation, medical treatment, etc. Our solid customer base has brought a strong impetus for future company growth.

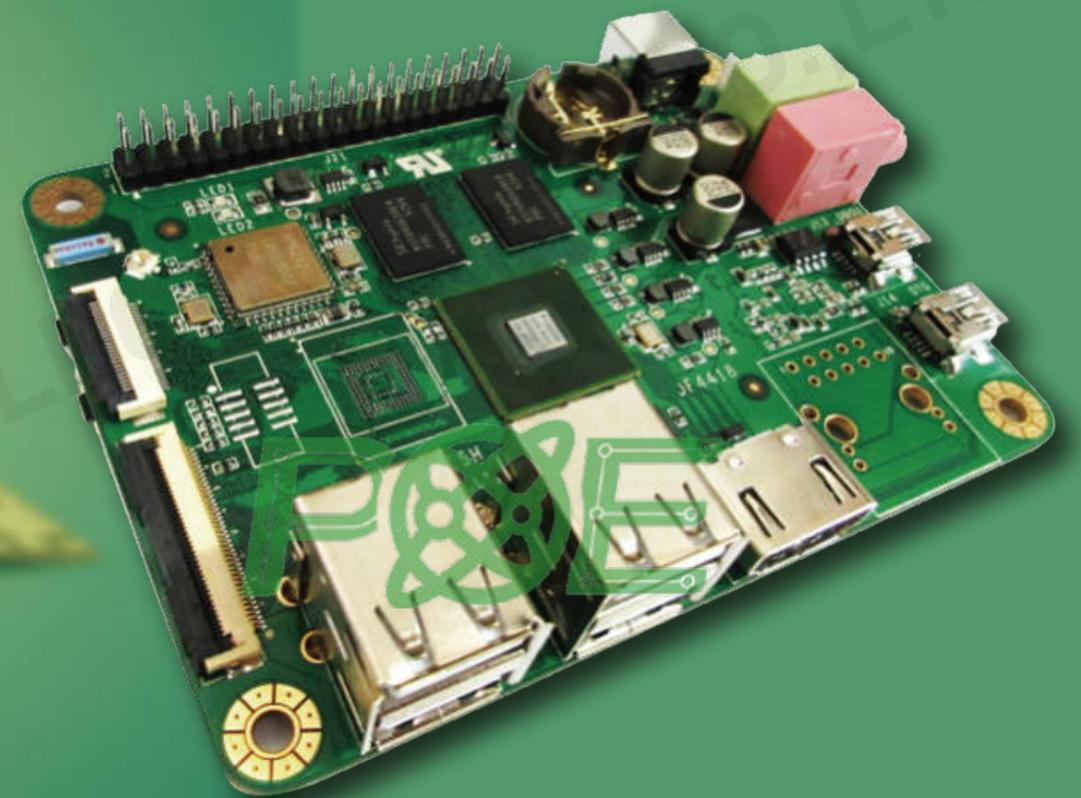
Medical PCBAs

10 Layers PCB Assembly
Material: FR4 TG150
Finish treatment: ENIG 3u"
Copper thickness: 2oz
Impedance Control



Consumer PCBAs

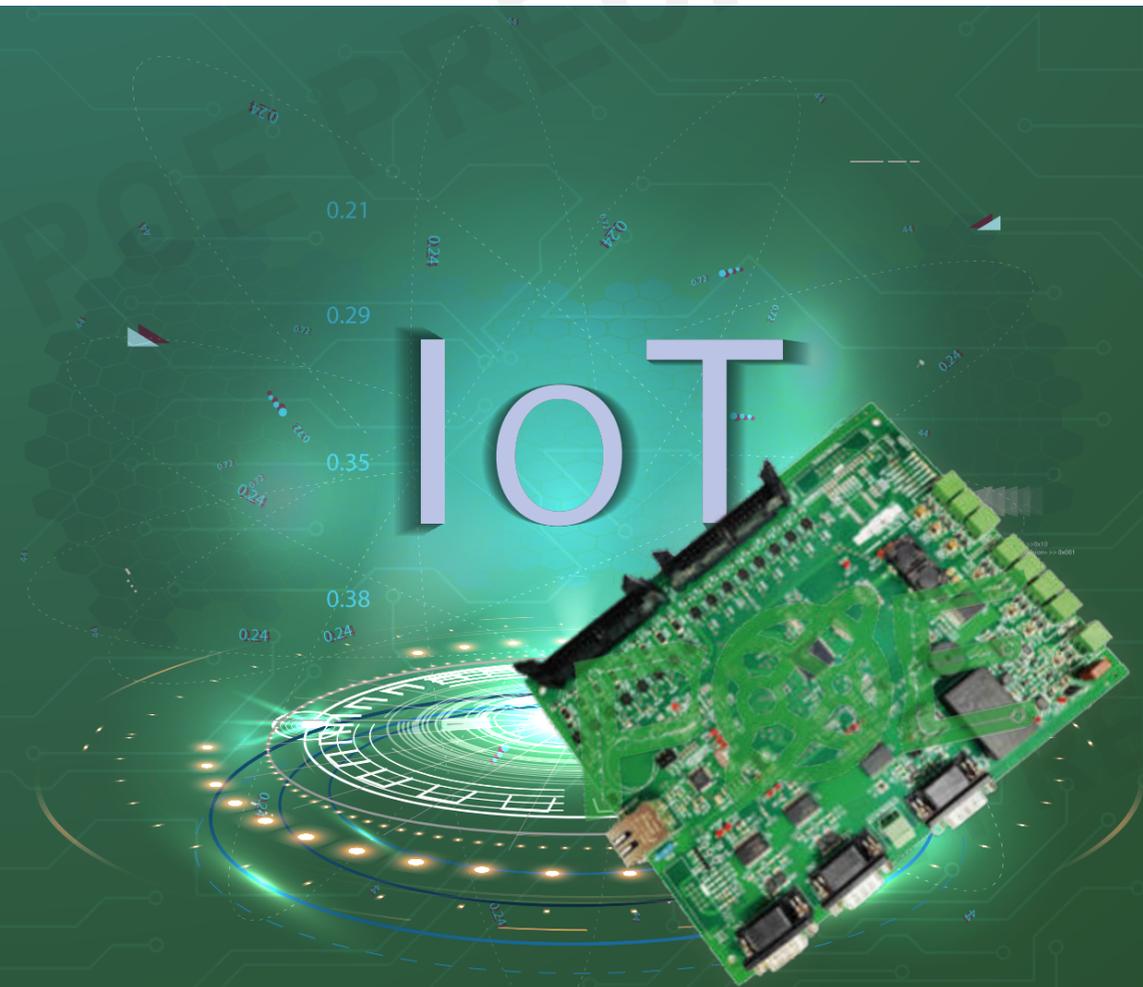
6 Layers PCB Assembly
Material: FR4 TG170
Finish treatment: Immersion gold
Impedance Control





Wearable PCBAs

8 Layers PCB Assembly
Material: FR4 TG150
Finish treatment:
Immersion gold
Resin plugging vias
Impedance control



IOT PCBAs

4 Layers PCB Assembly
Material: FR4
Finish treatment: HASL lead free
Copper thickness: 2oz
Impedance control



3D Camera PCBAs

12 Layers PCB Assembly

Material: FR4 TG150

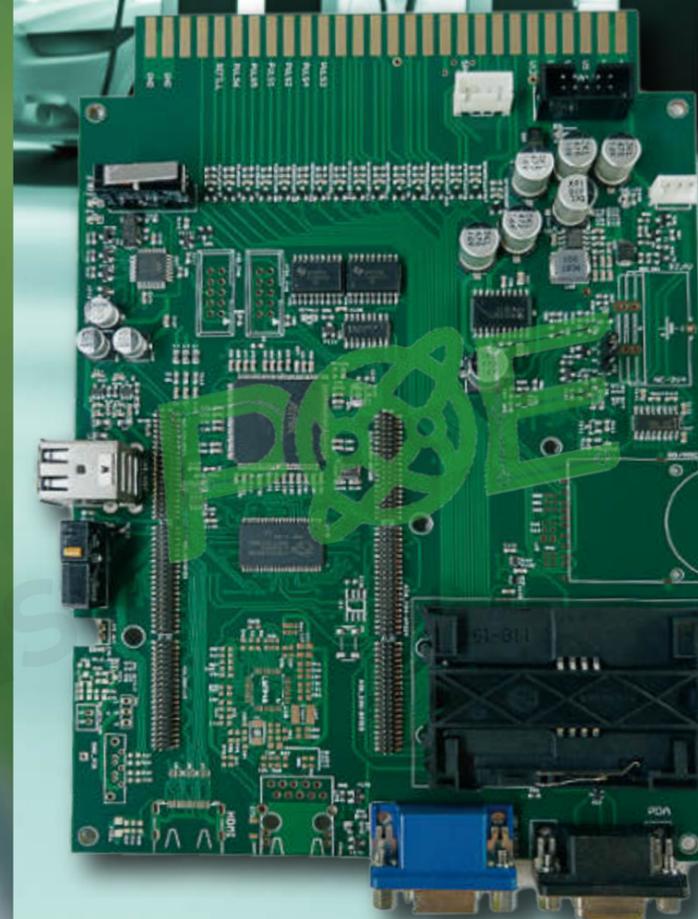
Finish treatment: HASL lead free

Board thickness: 0.8mm

3D camera pcba board

Energy Automobile PCBAs

should be something that will give the highest performance in terms of power dissipation, efficient heat transfer, long life cycle and robustness. Commonly if we open up the deck or dashboard of our cars we see a complex electronics and wiring inside with relays, fuses and sockets mounted and connecting various modules with each other. These electronic components are all mounted on Rigid PCBs that are High Density Interconnect (HDI) PCBs, Heavy copper PCBs to allow high amount of current flow from car battery to accessory electronic, ceramic substrate PCBs to bear against harsh, stringent environment of car surrounding like car moving in deserts, forest, mountainous regions or running in hot sunny weather.



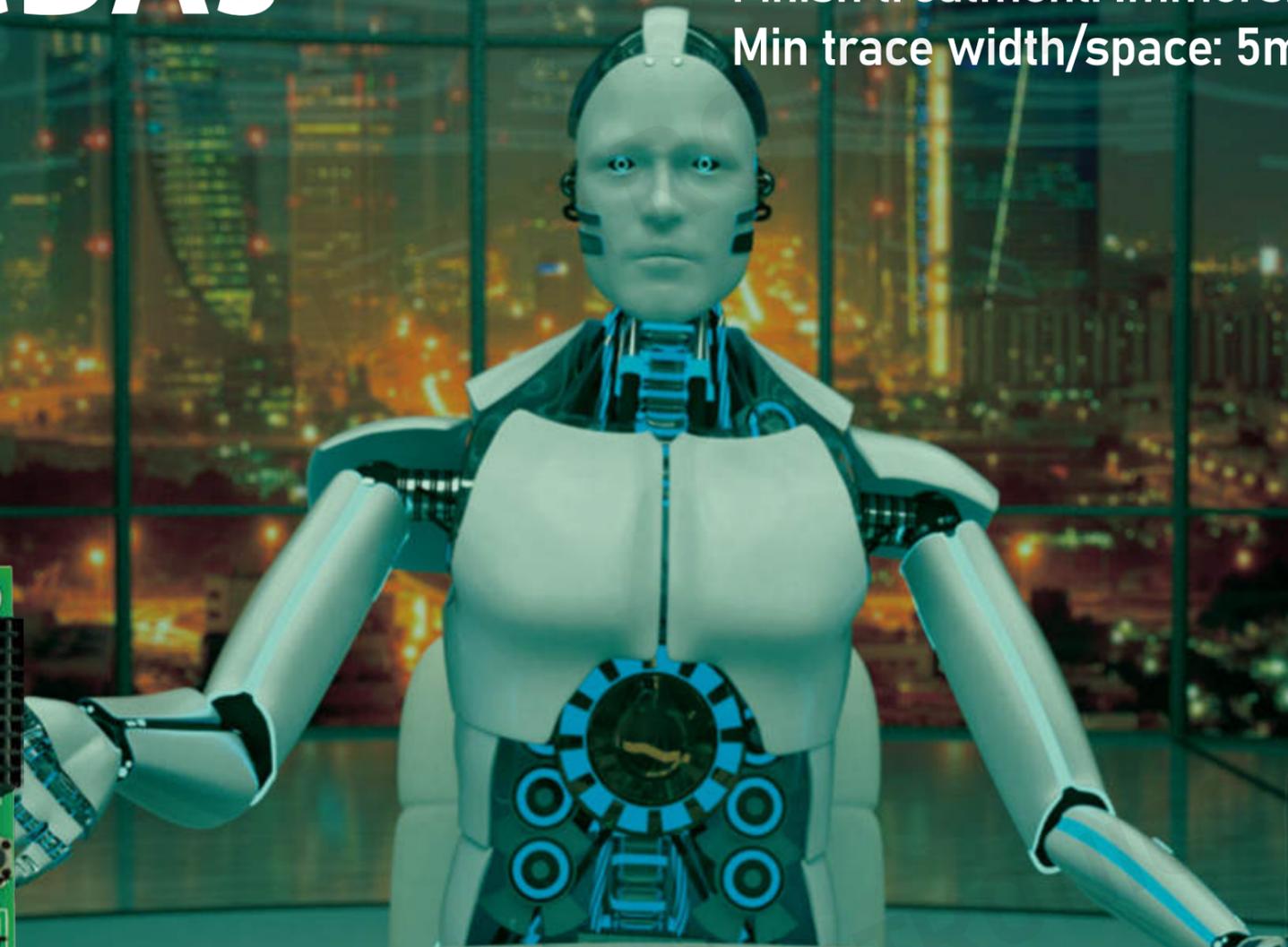
Robot PCBAs

14 Layers PCB Assembly

Material: FR4 TG170

Finish treatment: Immersion gold

Min trace width/space: 5mil/4mil



PCBA EQUIPMENTS SHOW



Pick & Place Machine



Pick & Place Machine



Manual Soldering



SMT Lines 1



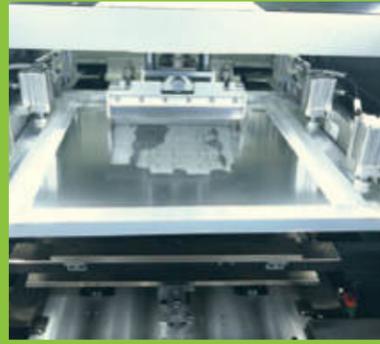
SMT Lines 2



SMT Lines 3



Automatic Solder Paste



Automatic Solder Paste



AOI



Online Solder Paste Checking



10 Zone Reflow Oven



Wave Soldermachine



Wave Soldering



Reflow Oven



Pick & Place Machine



Manual Soldering



DIP Wave Soldering Machine



Case Packaging 1



Reflow Soldering



Automatic printing Machine



Plate Washer



Case Packaging 2



Program and Testing



Xray BGA Checking

PCB EQUIPMENTS SHOW

POE continually reinvests in the latest technology and equipments based on customer demands and industry trends.



Outline Milling



Drilling Workshop



CNC Molding



Copper Plating



Multilayer Press



Dust-free Film showing



Circuit Etching



Graphics Transfer



Xray for Multilayer



Automatic Etest



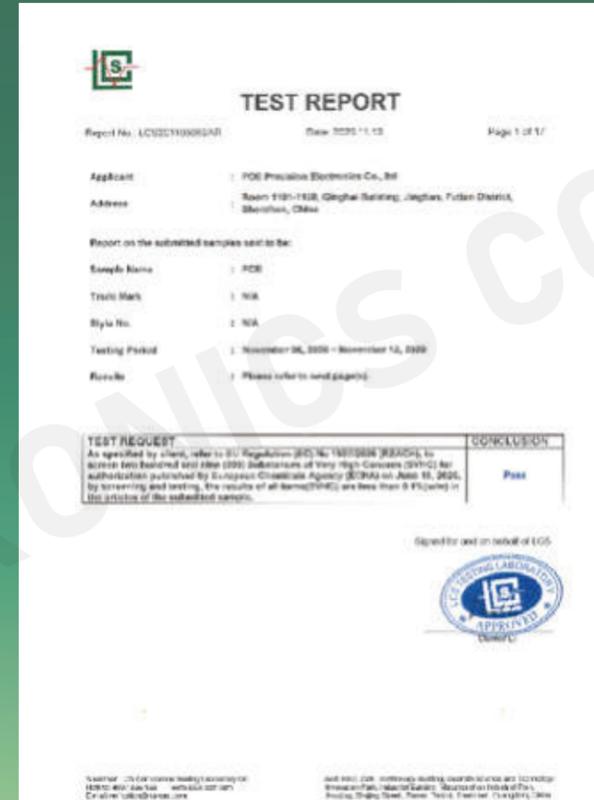
Inner circuit Xray



Probeflying



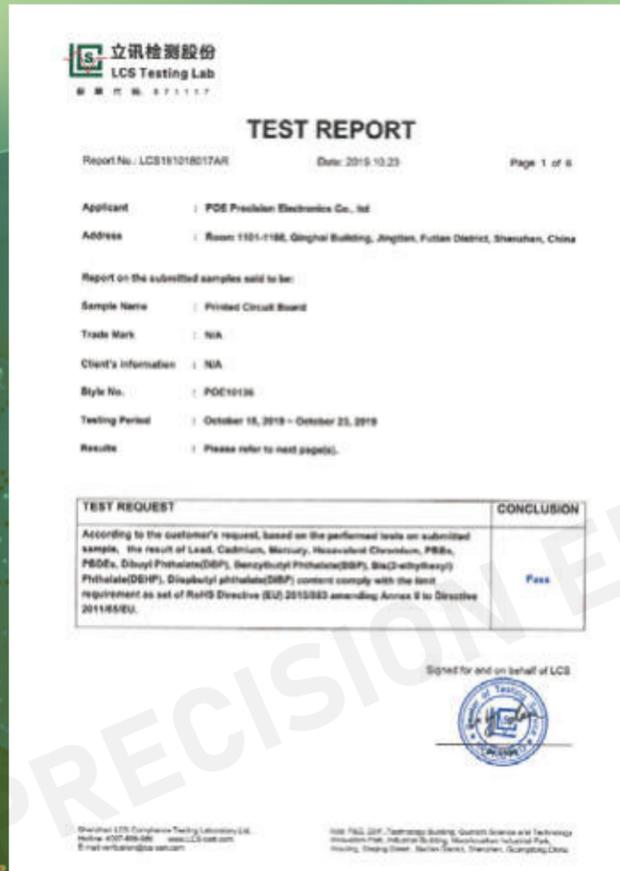
ISO9001: 2015



ROHS2.0



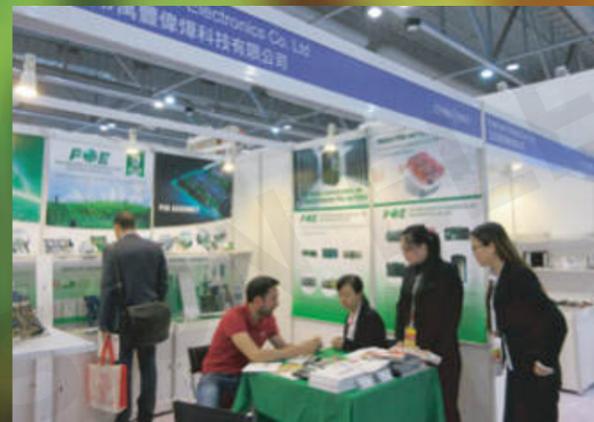
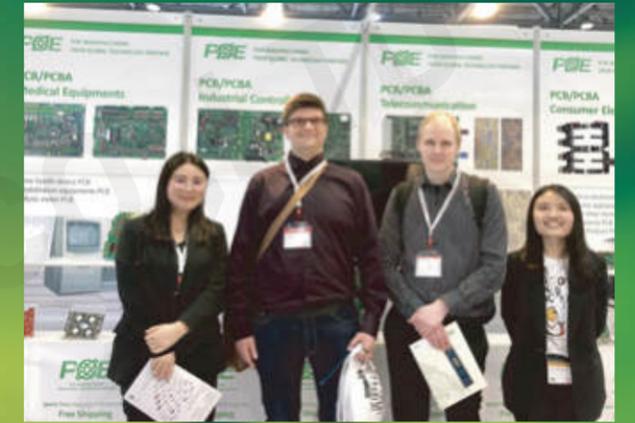
ISO13485: 2016



REACH



UL94V-0



POE 2012-2019 Exhibition Showcase

POE will regularly participate in some PCB international exhibitions and introduce our current technology and innovations to new and old customers, as well as global advanced solutions in related fields. We are always trying to improving our service quality to meet clients' requirements to the fullest.

CUSTOMERS VISIT

Welcome customers visit POE factory, meanwhile, arrange a video meeting is available, we will show you around our production lines and equipments.



OUR TEAM



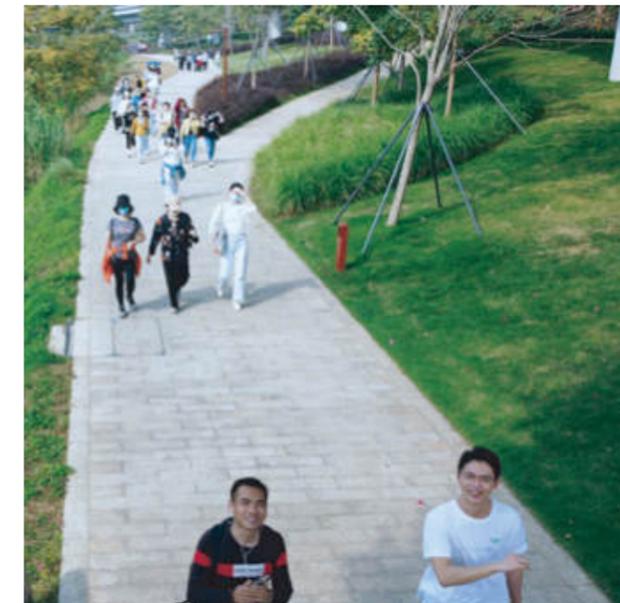
2022

With the footsteps of Spring, Chinese New Year is coming quietly. The streets and the alleys are decorated by the festive Chinese Red. As a leading enterprise in PCB and PCBA industry in Shenzhen, POE is ready to welcome the coming of the Year of the Tiger.

You have experienced Paris with a romantic night scene, seen Beijing with snowflakes, you memorize every sentence of your favorite truth in the book... but you can't tell the meaning of traveling in Shenzhen.

There is a poem in China called "The spring breeze in February is like scissors", so POE organized a far-reaching hiking activity in February, everyone can enjoy the sunshine closely in February, listen to the singing of birds, and feel the nature of ingenious workmanship.

At the same time, hiking also enhances friendship and cooperation among colleagues.



POE

**JDM ODM
Solution Service
for Startup
company and
Engineering
company**

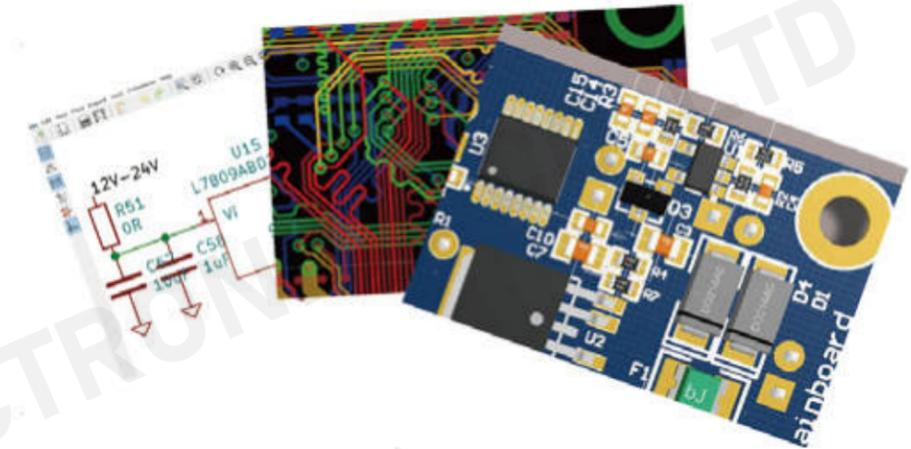


Firmware development

- Firmware of microcontroller in various brands
- Firmware of FPGA in various brands
- Firmware for embedded systems
- Python script for Linux OS

Company Advantage PCB Design

- Multilayer PCB
- High speed PCB

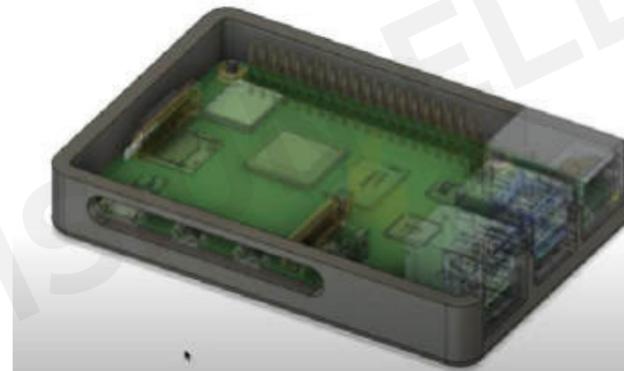
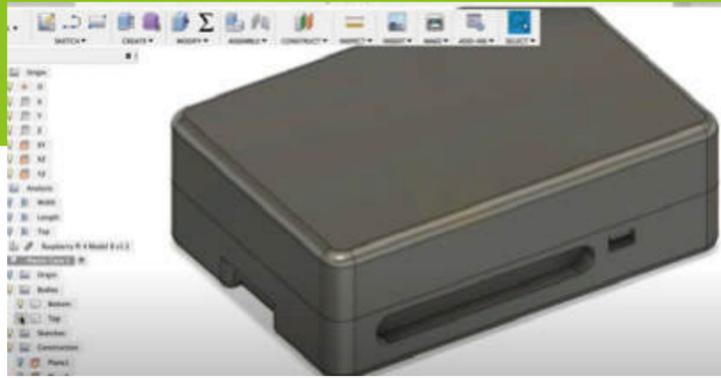


Application development

- Application for iOS
- Application for android
- Application for PC

Case design

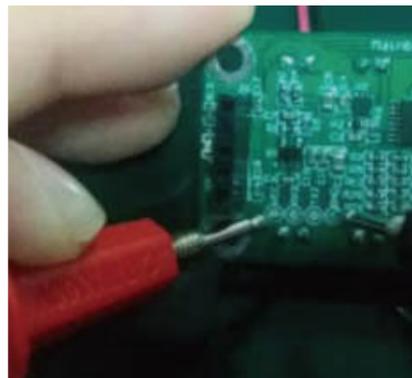
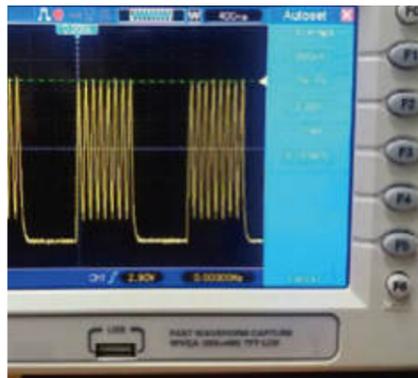
-Product case design



Product testing

Testing all sectors of the product

- Testing various circuits on the PCB
- Testing the functionality of the firmware
- Testing the functionality of the application
- Product performance testing before delivery to customers

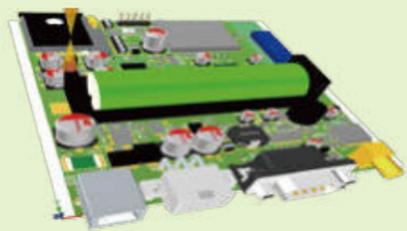


Product samples
that we produce
for companies

Notice : We have to censored the brand name of our customers. Because those things are the customer's secret.

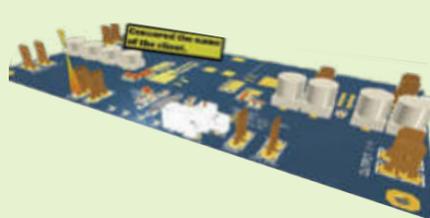
3G Board

- Send data from sensor to server via 3G network.
- Low power consumption. customer's secret.



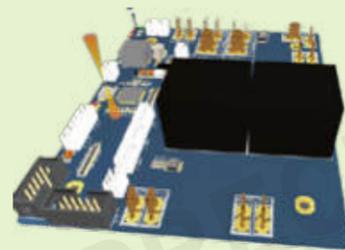
Buck-Boost Converter High Current

- DC to DC converter
- Input 5 – 30V
- Output 24V 100A



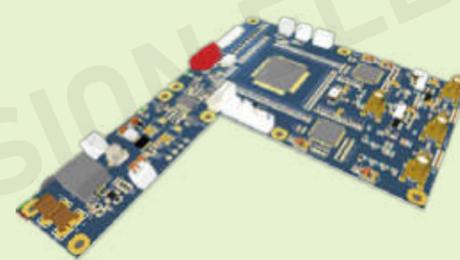
Battery Charger 40A

- Lithium-ion Battery Charger
- Input 12 or 24V
- Charging current up to 40A
- Protection over voltage
- Protection over current
- Protection high temperature



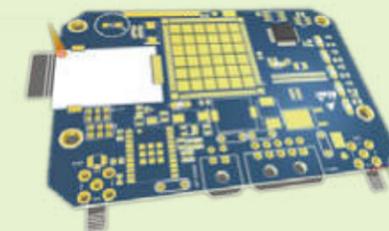
Direct Digital Synthesis

- Signal jammer for the government agencies
- GSM, GPS and WIFI blocker



GPS Tracking & IOT

- GPS Tracking
- Send data to server
- Read driver's ID



Wireless Module

- M2M
- Transmitter data to server and another device
- WIFI 2.4 GHz

