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POE科技·让世界更亲近

POE Manufacturing , Your Global Technology Partner



智领全球

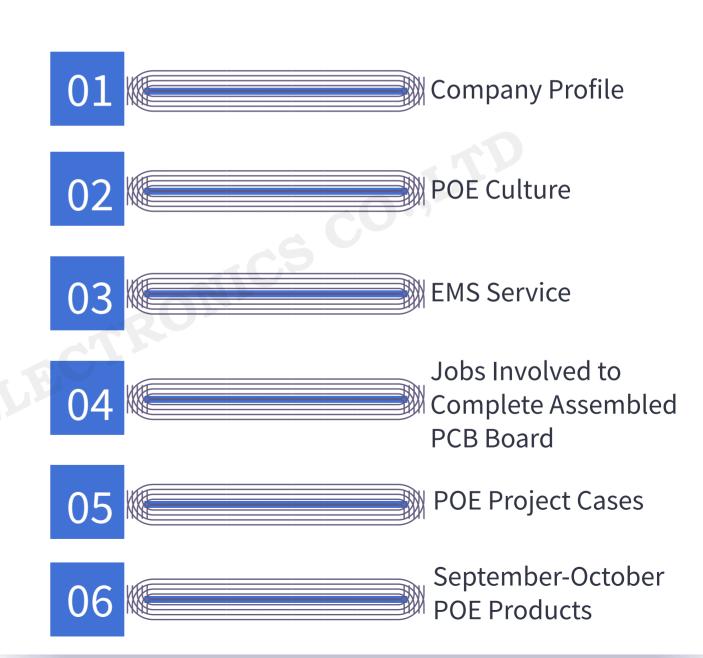
电子核心 科技

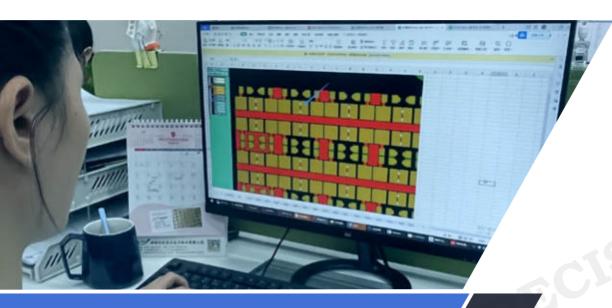


OEM Services for PCB and PCBAs Since 1996



CATALOG





COMPANY PROFILE



POE as a PCB company has developed to a well-known Turn-Key PCB assembly company over the years, providing high and low volume batches at reasonable prices and high quality, from making the boards to shipping the final product and everything in between.

With imported fully automatic production machines & professional sales team, purchasing team and engineering team located in Shenzhen China, HK, USA and Canada, POE is able to provide customers with low-cost one-stop contract manufacturing service, including PCB fabrication, components procurement, PCB assembly, programming, cable assembly, final PCBA testing, final case assembly, coating, worldwide shipping.

POE customers are primarily from the USA, Canada, Europe, Australia, Israel, Middle East, Brazil, Argentina, Asia...., and in a wide variety of industries like Medical, Telecommunications, Airplane recorder, Automobile, Database information, 5G, IoT, Robot, Industrial, Home appliance, Consumer Electronics, LED products.









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ISO9001:2015/UL94V-0/ ISO13485:2016/IPC || / IPC || /ROHS/REACH

POE CULTURE

October birthday party is held successfully

In the birthday party, the employees shared their happiness with each other.

At POE, no need to worry about spending your birthday alone anymore, all the employees will accompany you to give you the feeling of your home.





POE organized a hiking activity.

With the arrival of autumn, the weather in Shenzhen became cooler. POE organized a hiking activity.

Enjoying the scenery during the hike promotes mutual understanding among employees, creates opportunities for employee communication and improves team cohesion.

The employees were divided into four groups for the race. Besides competing for speed, a creative photo project was added to let everyone enjoy the fun of hiking.







PCB Contract Manufacturing

POE has over 20 years PCBA EMS(electronic manufacturing service) experience,we provide a full range of sub-assembly, box-build, and integration services customized to each individual product. Except SMT and Through hole assembly of the board,other processes include sub-assembly installation, cable assemblies, wiring harnesses, and fabrication of board enclosures. All these components must work together to ensure a fully-functional circuit.

EMS SERVICE

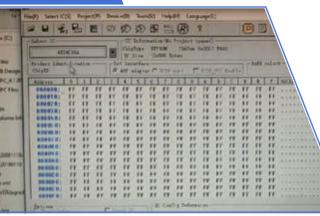


- Programming/Setup
- System integration services
- Mechanical Assembly
- Functional Testing
- Packaging & Labeling
 Enclosure Assembly
- Storage and Shipment
- After-sales services



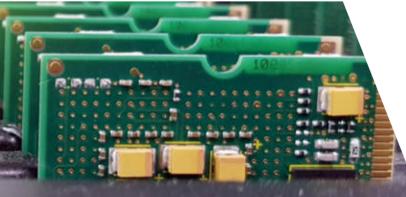
Programming/ Setup





After completion of hardware assembly, an Electronics Manufacturing Service Provider is always able to help with initial factory programming or setup the configuration of the product.

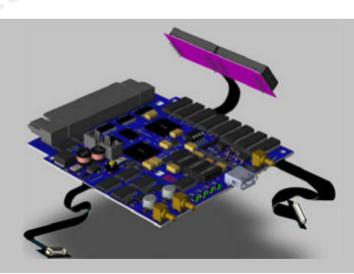
The programming content includes, but not limited to firmware or driver installation, date or time setting, manufacturing code, operating system configuration and BIOS update. POE has well experienced programmer and technicall team to carry out initial programming for the products. This makes POE easy to work with service provider and enhancing client's confidence on the product before shipment.



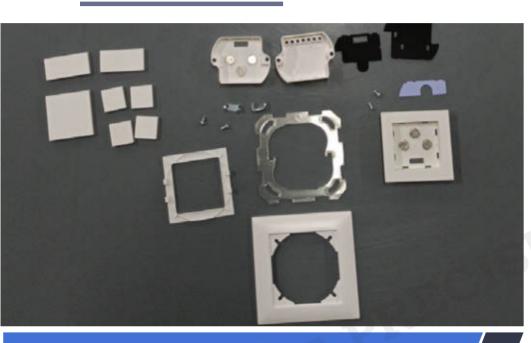
System integration services

System Integration services are core services by a PCB assembly manufacturer. This includes assembly of power modules, heat sink (cooler or fan), memory bank, display, input/output interface connectors, motors and other accessories.

In the manufacturing process specialized components are required such as strip cable, multi strand or single strand wires, RF coaxial connector, cable clips, connectors, terminals or metal body to ground, silicon glue on cooler components and ties etc.



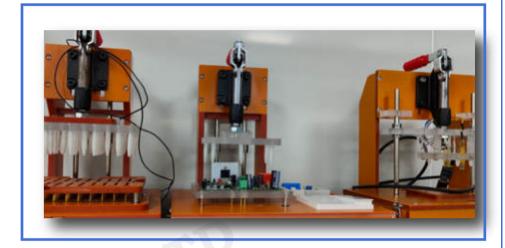
Mechanical Assembly

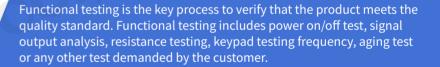


Mechanical assembly plant and skillful workers are the basic requirements for a printed circuit board EMS manufacturer. Mechanical assembly is a vital requirement after system integration assembly. Mechanical assembly involves riveting, drilling screw holes, tightening nuts and bolts, washers and mechanical locks to assemble core functional components inside final housing.

Assembling simple products with no sub-components are far efficient as compared to assembling products with more than two sub-components. In theory, the higher sub-components, the more labor-hours are required for assembly process. While some EMS PCB manufacturers are unable to provide high quality mechanical assembly services, POE has expertise in this field.

Functional Testing





POE is equipped with common functional testing equipment that can satisfy testing demands for most electronics projects. Apart from this POE can offer customized PCB assembly inspection services for some special products. These special tools and testing equipment will be communicated and coordinated with the clients.

As an EMS manufacturer is different from an OEM manufacturer, most of OEM manufacturer are not able to customize test jigs to accommodate client's project demands. POE help customers to build customized test stations thus avoiding delivery of faulty products that can increase customer cost if they are delivered and debugged locally.



Packaging & Labeling





Numerous clients require designing and customizing the package box for their products. POE thus provides this service for packaging. According to package SOP, product must match the correct components, warranty card, user manual, assembly and disassembly instructions etc. for packaging in the box. This service makes sure the user can fully understand how to use and operate the product and components as well as the precautions. This service is part of our manufacturing services offered to our valuable clients.

POE take good care of detail works and little things like labels required by product designer as per work instructions, no matter Barcode,QR Code,serial numbers ect, POE is helpful in placing or printing the logos or labels on the product body.



POE can assemble boards with enclosures made of ABS, polycarbonate, polyester, aluminium und stainless steel ect.We equip and assemble enclosures according to individual specifications with a wide variety of built-in and add-on parts including supplied components up to ready-to-connect installation and wiring.

Enclosure Assembly



Storage and Shipment

POE stores electronic parts for customers, also well packed products in warehouse before delivery. These stores are well managed by a warehouse officer and factory guard to maintain appropriate temperature, humidity and under well cleaned shelves for safe storage before delivery. This is a key point during electronics contract manufacturing services.

POE has stable and competitive delivery company who ships the packed products all over the world. In case client needs some other shipping company services, we help them in arranging custom clearance documents to ensure timely delivery.



After-sales services

After product delivery, we can offer repair, mantainence and calibration services for our clients so they would not concern a lot after selling their products. This is the last important part of our EMS manufacturing service. This service save clients cost of hiring skillful technicians for the maintenance job.



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Assembled Printed Circuit board, be well completed by different work with good performance.



Sales Representitive



■ Sales Representitive- Well understand customer's demands, gives advice on order plan, and updates production

status with great responsibility.

Senior Purchaser

■ Senior Purchaser-Over 10 years sourcing experience, supply chain management.





Engineer(Gerber DRC)

- Operation-Market analysis and prepare in advance.
- Engineer(Gerber DRC) Checking gerber file to make sure it meets design rule before PCB manufacturing.





Jobs Involved to Complete Assembled **PCB Board**



SMT Engineer



- QE Checking design file, especially BOM, location file, and silkscreen markings to make sure no possible issue before SMT assembly.
- IQC- Inspecting the components received and make sure the parts are correct and in good condition.
- SMT Engineer- Setting up Pick&Place Machine and monitor the whole process to ensure that workshop operation is in compliance with ISO standard



AOI

- FAI Inspector-First Article Inspection, it's critical process before volume quantity production.
- AOI- Inspect assembled PCB and see if there are defects, missing, bad soldering parts on boards, 100% testing,good quality assurance.
- Wave oven Engineer-Skilled in wave soldering parameter adjustment, optimizing PCBA board solder quality enhancement.



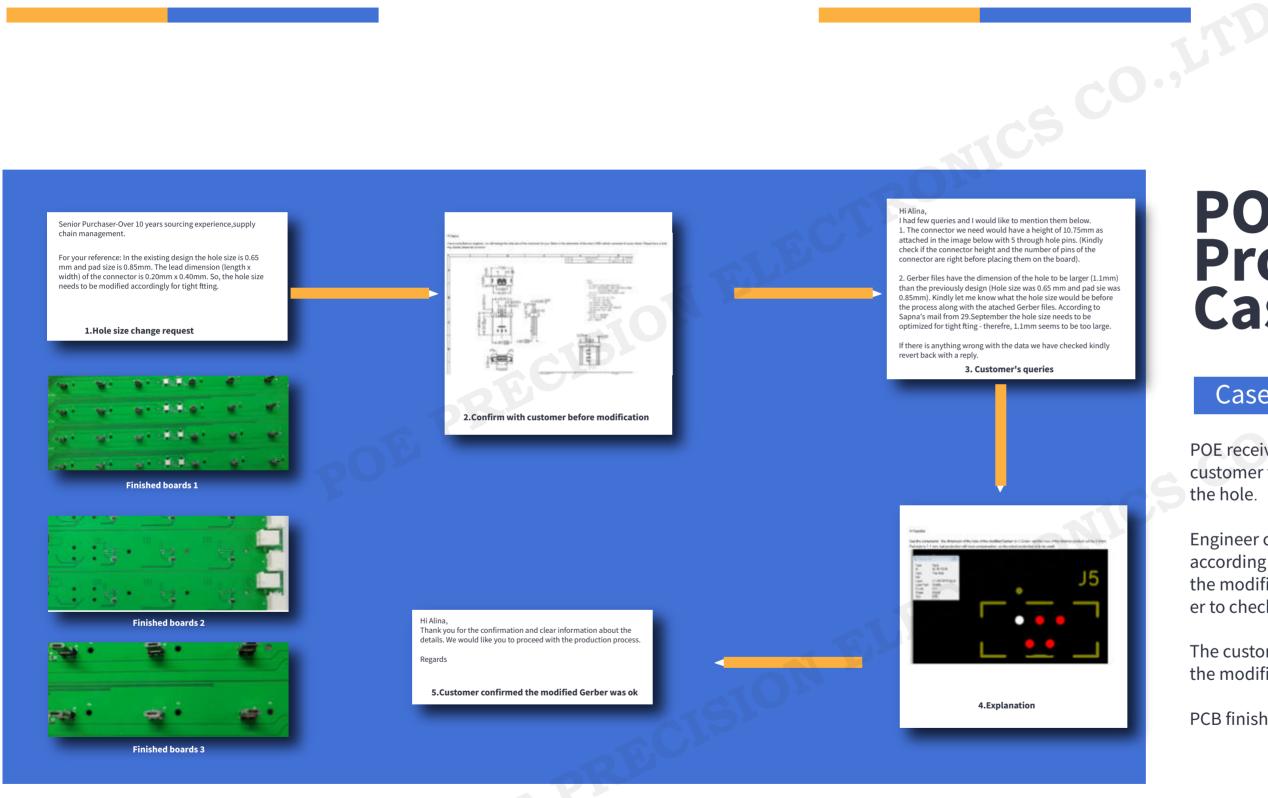
Wave Oven Engineer





IQC

QE



POE Project Case

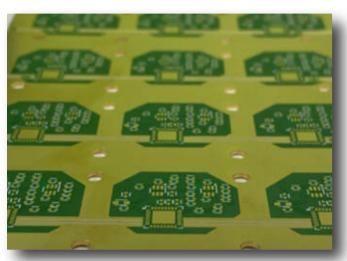
Case One

POE received the request from the customer to help modify the size of the hole.

Engineer changed the hole size according to the datasheet and sent the modified Gerber files to customer to check.

The customer finally confirmed that the modified information was ok

PCB finished production.

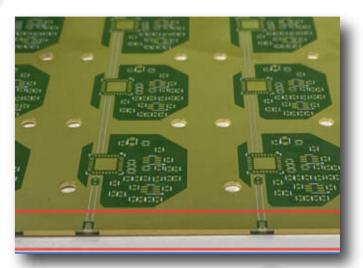


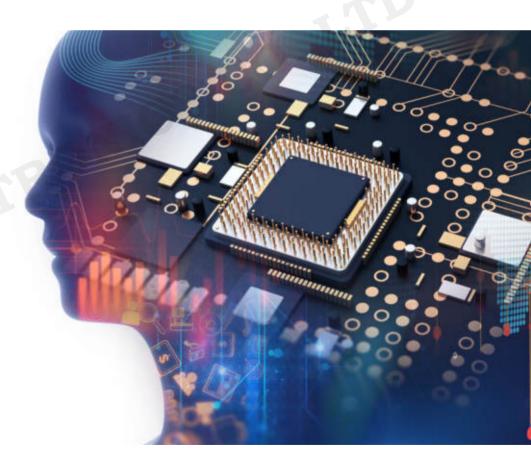


Case Two

- 1. The board is FR4+Rogers RO4350 mixed press with blind hole and edge plating, advanced high performance PCB with special board material.
- 2. PCBs with whole board immersion gold surface treatment are easily to be scratched, and we used dust-free paper to separate each one when packing to avoid such issue.
- 3. POE Engineers make Stack-up structure per customer's design requirements.





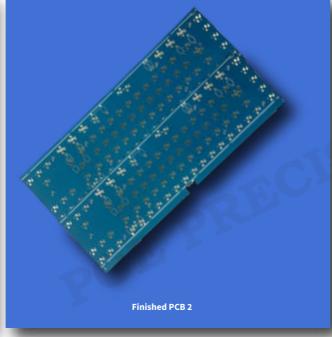


Case Three









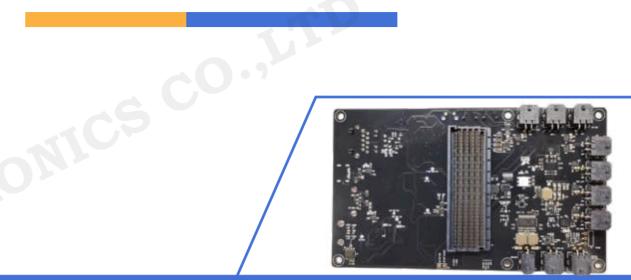


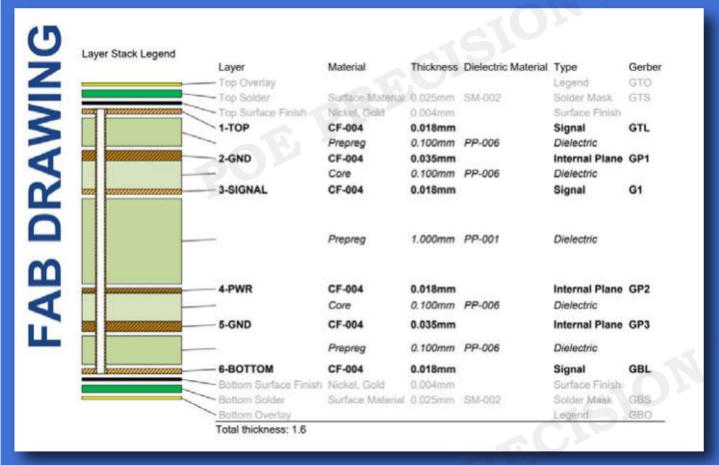
Tune the soldermask Ink and test the color

POE received the Pantone from customer. The technician adjusted the ink according to Pantone until the customer was satisfied with the color! Here's a picture of the finished color on the PCB.

Case Four





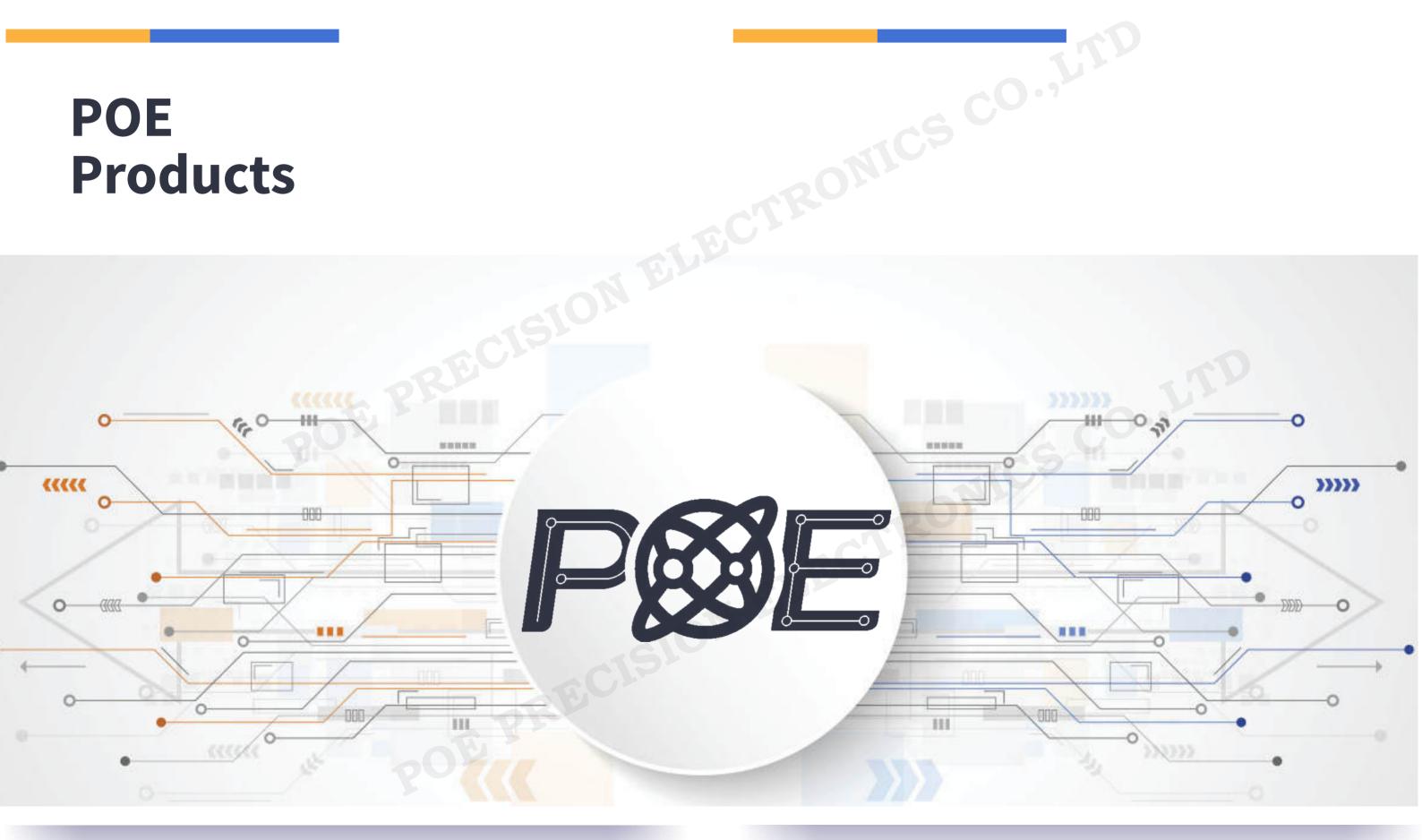


This board requires specific material and different copper thickness. It's difficult to mate 699 position connector and repair if there is soldering joint issue, so we need to use X-ray machine to inspect the soldering joint.

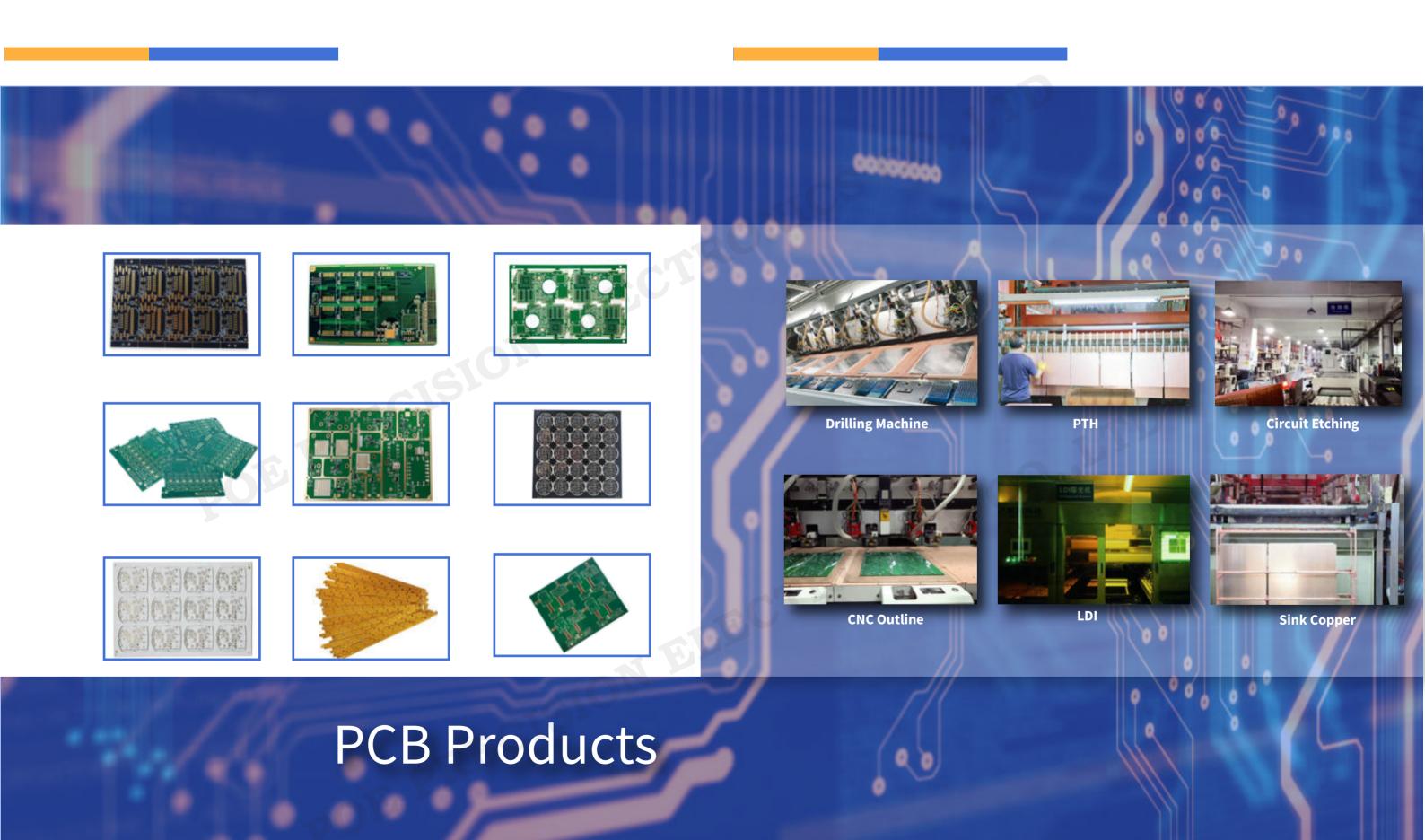


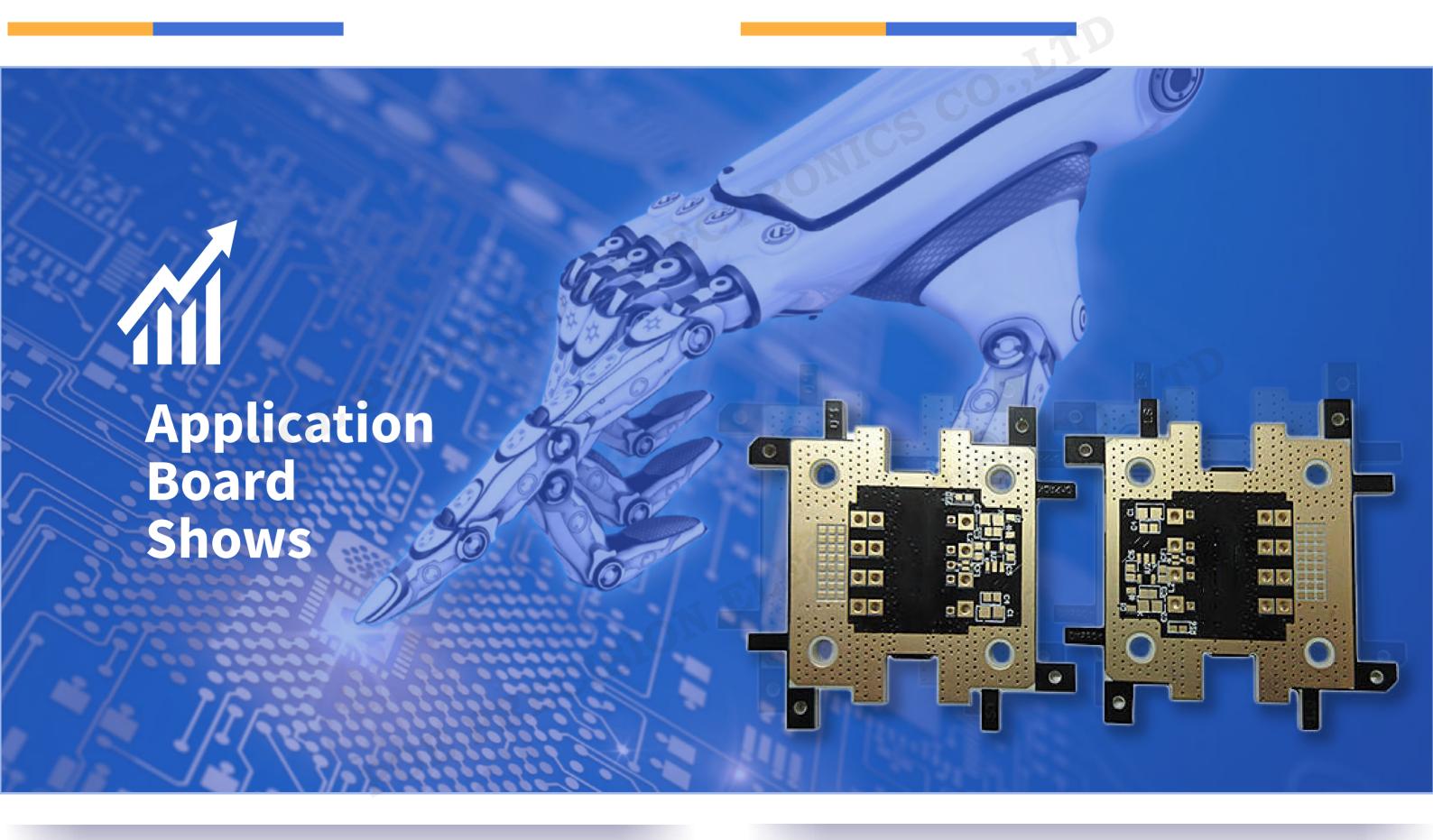


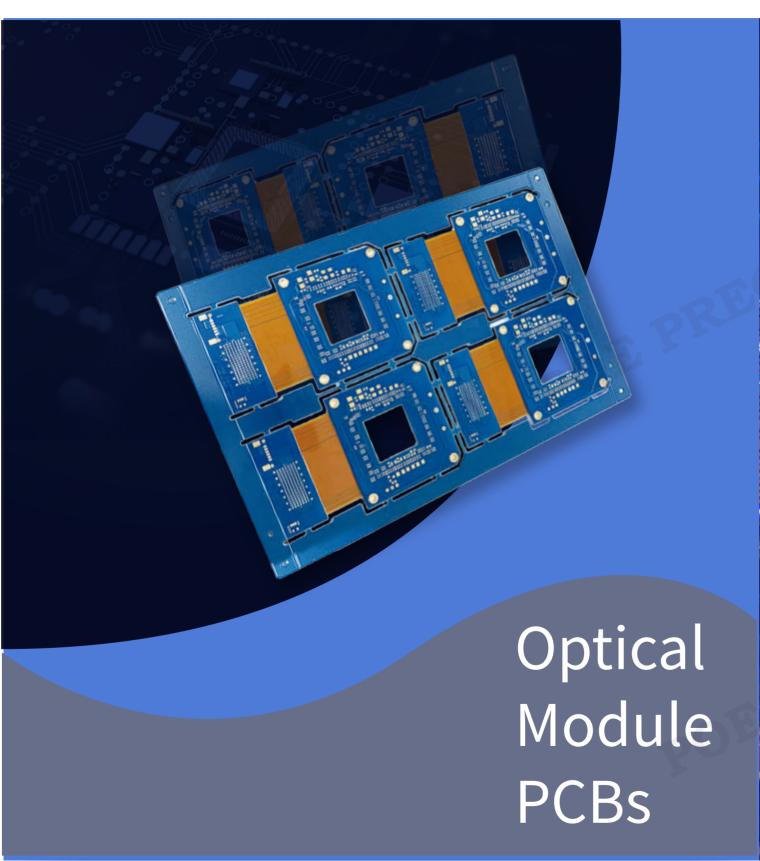
POE **Products**





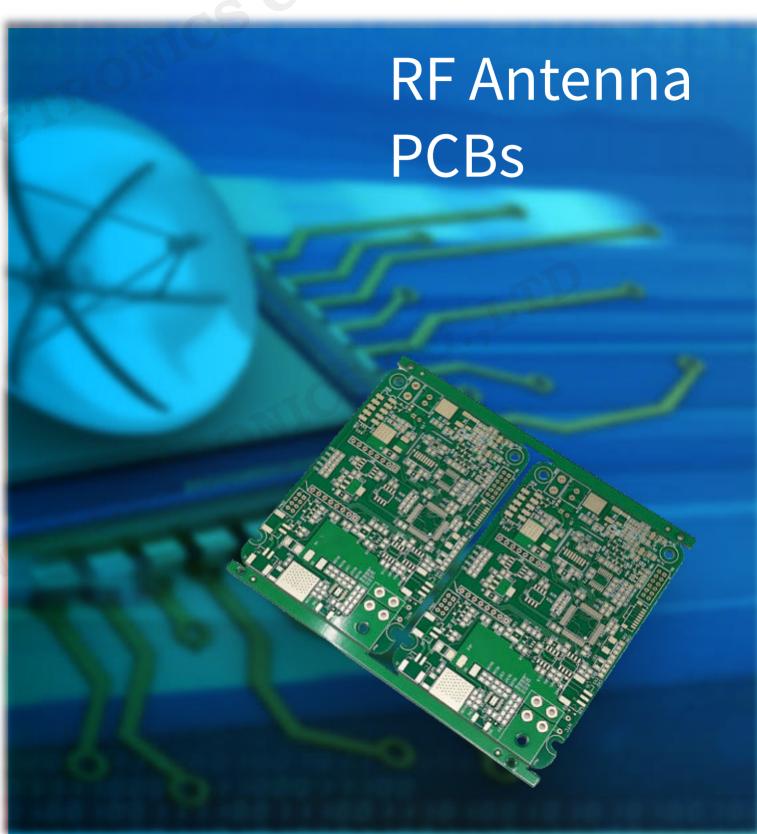












Industry Control PCBs

