ABOUT US



Founded in 2005, King Credie Technology Ltd mainly provided PCB sample production for the world's famous universities and research institutes, including MIT, University of California, New York University, University of Singapore, University of Tokyo and many domestic military research institutes.

The company is established in the Pearl River Delta cities of Shenzhen and Dongguan, which have the most complete hardware industry service chain in China. Relying on our strong professional manufacturing capabilities and professional services, it will be a firm foundation for our continuous development with our customers.

ITEM

- 1 Factory profile
- 2 One-Stop Solution
- **3 Quality Products**
- 4 Manufacturing Capacity
- **5 Warehouse Management**
- 6 Quality Management
- 7 Qualifications & Honours
- **8 Enterprise Culture**

1. Factory introduction

PCB Factory:

It was formally established in Shenzhen in 2005 and expanded to Huangjiang, Dongguan in 2015. The factory covers an area of 8,000 square meters and has a registered capital of RMB 15 million. It currently has more than 180 employees and an annual production capacity of nearly 30,000 types of PCBs, 5 million square feet. The factory also has various system certifications such as ULE357163, ISO9001, ISO13485, ISO14001, IAFE16949.

PCBA Factory:

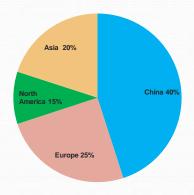
It was established in Shenzhen in 2011, with a factory area of 6,000 square meters and a registered capital of RMB 12.18 million. In 2020, it was awarded the title of China's National High-tech Enterprise, specializing in SMT & PCBA & OEM foundry services. It currently has more than 200 employees! The company has complete hardware supporting facilities and currently has 10 YAMAHA mounting lines, as well as supporting testing equipment (such as SPI/X-Ray inspection /AOI/ICT/ROHS, etc.), 2 wave soldering production lines + 2 post-welding lines + 2 test lines + 1 conformal coating line, and are equipped with functional analysis stations. The company has passed ISO9001, ISO14001, ISO13485 and IATF16949, and introduced and implement ERP and MES system production operations.





Target Market

Market distribution



Target market

- 1. Auto products
- 2. Medical products
- 3. Industrial control products
- 4. New Energy products
- 5. Video conversion
- 6. Consumer Electronics

Major customers

Auto products

Industrial control

Medical

New Energy

Video conversion

Consumer Electronics

























































2. One-Stop Solution

Technical services

Professional engineer team, provide technical support for customers product design and manufacturability

Production service

We have the top equipment in PCB and PCBA industry, and have experienced professional production and quality control team

Customer service

24/7 professional customer service

Industrial chain service

Has a stable, reliable, professional components and PCB material procurement supply chain

PCB SERVICE:

Lead Time:

| Type: | Sample lead time | Production lead time |
|--------------------------------|------------------|----------------------|
| 2 Layer | 24 hours | 3-5 days |
| 4-6 Layer | 48 hours | 7-8 days |
| 8-10 Layer | 96 hours | 9-10 days |
| 12 Layer+ | 168 hours | 12-14 days |
| HDI PCB | 168 hours | 12-14 days |

Capacity:

Type: Capacity

● Rigid PCB 2-32 Layer (Including blind/buried hole HDI design)

Flex PCBRigid-Flex PCB1-8 Layer2-18 Layer

Metal core PCB
 1-12 Layer (Containing aluminum & copper substrate, Mixed Dielectric)

High frequency PCB2-24 Layer (Ceramic, Teflon)

PCBA SERVICE:

Quick turn Lead Time

Type/Lead time:

Prototype: 24-48 hoursSmall volumes: 48-72 hoursLarge volumes: 48-96 hours

Value-added services

Type:

- Purchase of components(Genuine products guarantee)
- PCBA(SMT/DIP)
- OEM
- Assembly and testing

3.Quality Products



PCB Product

Rigid PCB

Layer Count: 1-24L

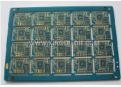
Board Thickness: 0.4mm~5.0mm

Impedance: ±10%(≥50Ω)
Trace/Space: 3MIL/3MIL

HDI: N+N+N

Copper Thickness: 1/30Z ~ 1 20Z







Flexible PCB

Layer Count: 1-8L Dimensions: 230*330mm

Copper Thickness: 1/30Z; 1/20Z; 10Z

Min Trace/Space: 3MIL/3MIL

Min Drilling: 0.15mm







Rigid-Flex PCB Layer Count: 2-10L

Aspect Ratio: 12:01

Min distance Via to Cu: 0.25mm Impedance: $\pm 5\Omega(<50\Omega)$, $\pm 10\%(\geq 50\Omega)$

Min Trace/Space: 3MIL/3MIL







PCB Product

Metal Core PCB

Thermal Conductivity:

Standard materials: 1-3W/m.k; Specified materials: 4-12W/m.k

PCB Type:

Metal Core PCB, Direct Thermal Path MCPCB,

Embed Copper Core PCB





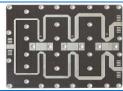


High Frequency PCB

Material: Rogers, Arlon, Taconic, Teflon, F4b Impedance: ±10%(≥50Ω)

Min Trace/Space: 3MIL/3MIL



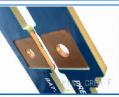




Custom PCB

Allow customization, such as shape, material, board thickness, copper thickness, color and others.







PCBA Product

Industrial control product

Min CHIP Size: 0603

Min QFP Pin Spacing:0.40 MM





Medical products – control board of energy healing equipment

Min CHIP Size: 0402

Min QFP Pin Spacing: 0.40 MM





Automotive central control module and control module motherboard

Min CHIP Size: 0201

Min BGA Pin Spacing: 0.40 MM Min QFP Pin Spacing: 0.40 MM





PCBA Product

Energy storage products

Min CHIP Size: 0402

Min QFP Pin Spacing: 0.40MM





Unmanned aerial vehicle

Min CHIP Size: 0402

Min QFP Pin Spacing: 0.40 MM





Video conversion

Min CHIP Size: 0201 Min BGA Pin Spacing: 0.40MM Max Ball Spacing: 13mm





4. Manufacturing Capacity

PCB: List of Equipment & Main Technical Parameters

| No. | Equipments Name | QTY |
|-----|---------------------|-----|
| 1 | Drilling | 8 |
| 2 | Scrubbing machine | 2 |
| 3 | Auto PTH line | 1 |
| 4 | Exposure | 3 |
| 5 | Auto pattern line | 1 |
| 6 | Etching machine | 1 |
| 7 | Auto printing | 5 |
| 8 | Oven | 4 |
| 9 | Circuit developing | 1 |
| 10 | S/M developing | 1 |
| 11 | Punching machine | 4 |
| 12 | Routing machine | 10 |
| 13 | E-Test machine | 5 |
| 14 | Flying Probe Tester | 3 |
| 15 | AOI | 4 |



| No. | Item | Capability |
|-----|---------------------------|--|
| 1 | Layer Count | 1-24L |
| 2 | Material | FR4, FR4 HIGH-TG, High Frequency Material, Metal Substrate Board |
| 3 | Max Board Size | 22.5*30inch(<6Layer),16.5*22.5inch(≥6Layer) |
| 4 | Routing Tolerance | +/-0.10mm |
| 5 | Board Thickness | 0.4mm~5.0mm |
| 6 | Board Thickness Tolerance | ±10%(>1.0mm); ±0.1mm(≤1.0mm) |
| 7 | Min BGA Size | 0.2mm(Flash Gold),0.3mm(Lead Free HASL),0.25mm(Other) |
| 8 | Trace Width Tolerance | +/-20% |
| 9 | Max Copper Thickness | 8OZ(Outer) 7OZ(Inter) |
| 10 | Mechanical Drilling | 0.15mm-6.50mm |
| 11 | Hole Size Tolerance | PTH: +/-0.075; NPTH:+/-0.05 |
| 12 | Laser Drilling | 0.1-0.15mm |
| 13 | Aspect Ratio | 1:0.8(Laser), 12:1(Mechanical) |
| 14 | Solder Mask | Green, Yellow ,Black, White, Blue, Red |
| 15 | Legend Height | >= 0.6mm |
| 16 | Twisting and Bending | ≤0.75% Min0.5% |
| 17 | HDI | 1+N+1, 1+1+N+1+1, 2+N+2, 3+N+3 |
| 18 | Metal Substrate Board | Aluminum substrate, Copper substrate |
| 19 | Surface Treatment | ENIG, ENEPIG, Immersion Sliver, Immersion Tin, Flash Gold, Golden Finger, OSP, Lead Free HASL, etc. |

Major Equipment of PCB













Image Transfer Outline AOI

Major Equipment of PCB











Etch line



Laminate



2D Measuring Projector

U 05 --

Laser Drill

V-cut Machine

SMT Workshop



Workshop area 3500 m²

Management of IT 、MES

SMT production line:

L1-L4:

YSM20 + YSM10 + SPI + Online AOI (N2 reflow)

L5-L6:

YSM20 + YSM10 + SPI + Online AOI

L7-L8:

YSM20 + YSM10 + On-line

L9-L10:

YSM20 + YSM10 + SPI + Online AOI (N2 reflow)

Major Equipment of SMT



Yamaha





Yamaha



SPI AOI

Major Equipment of SMT



Reflow welding







Systematic management



IT-based management of stencil/tools



IT-based management of equipment maintenance/ overdue system lockout/Feeder material preparation

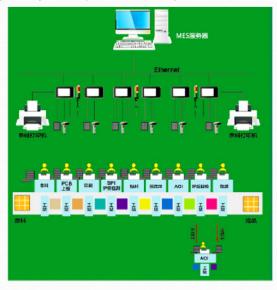


Equipment maintenance/stencil/solder paste are included in the IT management of the MES system, and the automatic locking function

is set when maintenance expires.

Systematic management

MES system for production related processes



Real-time data: Daily production line efficiency/defects, equipment maintenance, abnormal handling and shutdown, etc., real-time display/early warning, and server storage data.



Line Productivity

| Line capacity | [,] (24H) | Per month | Per Year | Remark |
|---|--------------------|------------------------------|-----------------------|--------------------------|
| SMT | PCBA/piece | 2 million/month | 26 million/year | Depends on actual |
| (10 Lines) | Machining points | 600 million points /month | 8 billion points/year | design |
| DIP/Test/Wave soldering /Conformal coating (2+2+2+1) | PCBA/piece | 0.7 million/month | 8 million/year | Depends on actual design |

PCBA: List of Equipment & Main Technical Parameters

| 序号 | 名称 Name | 数量 Set |
|----|--|--------|
| 1 | 高速贴片机 High Speed Patch Machine | 20 |
| 2 | 回流焊 Reflow Welding | 5 |
| 3 | 全自动印刷机 Fully Automatic Printing Press | 10 |
| 4 | 锡膏检测 Solder Paste Detector | 8 |
| 5 | AOI測试 AOI Test machine | 6 |
| 6 | X-RAY測试仪 X-RAY Test machine | 2 |
| 7 | 首件检测仪 First Piece Tester | 1 |
| 8 | 波峰焊 Wave Peak Welding | 4 |
| 9 | 三防漆设备 Coating line | 1 |



| NO. | 内容 ITEM | 技术参飄 Technical Data |
|-----|--------------------------|------------------------------|
| 1 | 最小空间 Min Aseembly Space | 0. 1.nm |
| 2 | 最中侧P全间 Win QPP Space | pitch 0.3mm |
| 8 | 最小贴装 Win Puckage | 0201 |
| 4 | 最小板大小 Win Board Size | 50mm+50mm |
| 5 | 最大板大小 Nax Board Size | 350nm*550nm |
| 6 | 公差 Tolerance | ±0.01nn |
| 7 | 可贴装Aseembly Sort | QFP, SOP, PLCC, BGA |
| 8 | 可贴装型号Assembly Capability | 0805, 0603, 0402, 1206, 0201 |

DIP Workshop



DIP workshop area 2500 m²

Technical Engineer(Junior):10

Management of IT 、 MES

Pipeline: 7 lines
Soldering line 2+testing 2+ Wave
Soldering line 2+ Conformal Coating line 1

Major Equipment of DIP

▲ Wave soldering line: 2



▲ Soldering line: 2





▲ Testing line:2



Conformal Coating Line





Conformal Coating Line: 1

5. Warehouse Management





Management of IT MES

- 1. Smart Shelf 10
- 2. Implementation of material bar code storage
- 3. Mes System Management and control first-in-first-out, automatic system locking

Warehouse Management

Check the pass, into the bar code management



Month label/material identification card traceability management



Intelligent Mobile Shelf, error-proof, leak-proof management



Warehouse Management

Specialist/area management of precious materials





Moisture-proof cabinet temperature and humidity monitoring, automatic control

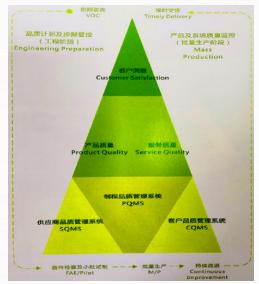
6. Quality Management Centre



Quality System

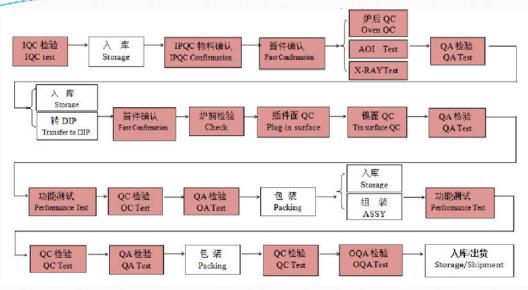
- **1.** Implement ISO 9001, 14001, 13485, 16949 system, as well as industry-related standards, from the input, output and other aspects of strict implementation.
- 2. We have a professional, stable quality team of more than 20 people, from the incoming material/process/delivery/customer service and other comprehensive monitoring quality.
- **3.** Equipped with professional and complete quality testing facilities (such as ICT/SPI/ROHS).
- **4.** MES system synchronously includes quality control, quality stop line/unlock function
- **5.**Strictly implement the quality management process.

Quality Managemaent





Quality Control



Testing centre -- Regular testing



X-Ray check For: BGA/QFN type component solder inspection.



AOI check For: Reflux welding PCBA, component welding conditions for automated testing.



SPI check For: Full automatic solder paste printing effect inspection.

Testing Center -- Function Detection









Quick charging test

Rapid discharge test /Full compatibility test





High Speed Transmission Test

RoHS / halogen free Testing



RoHS / halogen free



Application scope: RoHS detection of electronic and electrical products

- Halogen detection
- Film analysis

Testing Center -- Reliability test







ICT Test + Treatment

Thrust Test

Work Environment Management



SMT workshop/DIP/warehouse (with alarm)/precious material warehouse (with alarm) and other control areas have implemented automatic temperature and humidity monitoring, digital display devices, and dedicated inspection/follow-up.

MAN-ENG-027 Management MAN-HR-006 5S Management



Temperat ure and humidity digital display



5S outstandin g team

Employee qualification+skill training

1. Study of production theory





2. Practical operation





3. Brainstorming





7. Qualifications & Honours



8. Enterprise Culture



Contact us

PCBA One-stop Service, We plowed for 10 years, continue to improve, never stop;

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