



# 佛山市高明联星电路板有限公司

FOSHAN GAOMING LIANXING CIRCUIT BOARD CO., LTD.



源自中国广东的印刷电路板专业制造商

THE PROFESSIONAL PCB MANUFACTURER BASED IN GUANGDONG  
PROVINCE OF CHINA



## 公司简介

佛山市高明联星电路板有限公司是广东省佛山市一家专门从事多种印刷电路板的制造和研发企业。

该公司 1993 年在广州成立，2003 年工厂迁往广东省佛山市高明区沧江工业园内。现厂区占地面积 45000 平方米，拥有固定资产 7000 万元，员工 800 多人，月产各类电路板能力达 6 万平方米。公司拥有一批专业的研发和生产队伍，凭借着一流的生产设备、先进的制造技术和有效的经营管理、品质控制，以及优质、快捷、诚信的服务和合理的价格在线路板行业中建立了良好的企业形象和商业信誉。公司的产品取得了美国的 UL 认证，并在生产品质方面严格执行 ISO9001 质量体系 and ISO14001 环保体系，为我们制造的产品建立了坚实的品质基础。

如今，联星公司现已发展成为一个产销研一体化的大型公司，产品销往全国各地并且远销海外多个国家。产品广泛用于计算机、通信、家电、医疗、汽车、航空和航天等领域。卓越的产品质量和优秀的销售服务，赢得了各方客户的充分肯定和赞赏。

联星厂区现设有四个车间，分别生产单面板、双面板、多层板 - 铝基板 - 柔性单双面板 - 刚 & 柔结合板。车间总面积达 15000 平方米，拥有先进的钻孔设备、检测设备和流水生产线，为公司产品的多元化和准时的交货提供了可靠的保障。同时公司通过持续的规模扩张、先进的设备引进以及专业的人才配备，来增加企业的竞争力和满足客人的各种需求。

秉承着“创造完美、诚信敬业、精益求精”的企业精神和追求“以人为本，共同发展”的经营理念，联星公司愿与所有的客户建立一个互利互惠的长期合作关系，并期待与您携手共进，共创美好未来！





## Company Profile

---

**Foshan Gaoming Lianxing Circuit Board Co., Ltd.** is a professional manufacturer of various Printed Circuit Board (PCB) in Foshan City, Guangdong, China.

Lianxing was established in Guangzhou City in 1993 and then moved to Cangjiang Industrial Park of Gaoming District, Foshan City in 2003. The current factory covers 45000 square meters and owns RMB 70 million fixed assets and more than 800 staff, with monthly capability of 60000 square meters of various printed circuit boards. Lianxing has a group of professional R&D and Production members. Depending on our advanced production equipments and technology, effective management and quality control, excellent, fast and loyal service, competitive and reasonable price, Lianxing has established a good company reputation and commercial credit in the PCB industry. Its products has successfully obtained the UL Certification; for quality control procedure, we strictly execute the ISO9001 Quality Management system and ISO 14001 Environmental Management system, which help to make a solid foundation on our product quality.

Nowadays Lianxing has developed into a big Production–Marketing–Research integration company. Its PCB products are sold to all of the country and many overseas markets. They are widely applied to computer, telecommunication, home appliance, medical equipment, automobile, aerospace industries. Our good product quality and outstanding sales service are fully recognized and praised by all customers.

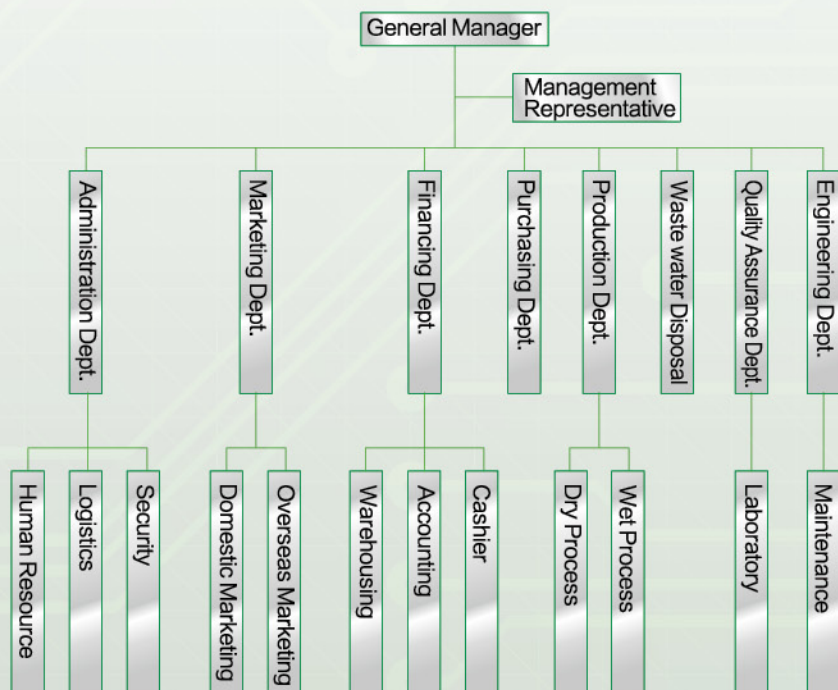
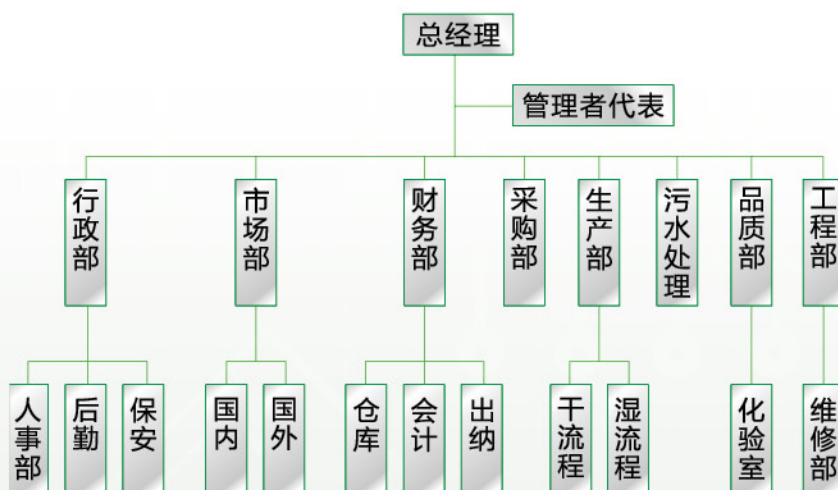
The current factory is divided into four production workshops, with a total workshop area of 15000 square meters. They respectively produce Single–sided PCB, double–sided PCB, Multilayer PCB; Aluminium based PCB; Flexible PCB; Rigid + Flexible PCB. The four workshops are equipped with advanced drilling machines, inspection equipments and flow production lines, which ensure the diversified product supply and on time delivery. At the same time, we will constantly strengthen our competitiveness and meet different customer' s requirement by persistent expansion planning, introducing new advanced equipments and more talented staff allocation.

With the business philosophy of "Creating perfection, Professional integrity, Keeping improvement" and the pursuit of "People foremost, Mutual development" , Lianxing is willing to establish a mutual benefit and long–term business relationship with our clients. We look forward to working together and creating a promising future!





## 公司组织结构图 Company Structure





## 工厂略影 Factory Tour







## 生产设备 Production Equipment



喷锡机 HASL



沉铜线 P.T.H.



显影机 Developing



钻孔机 CNC drilling

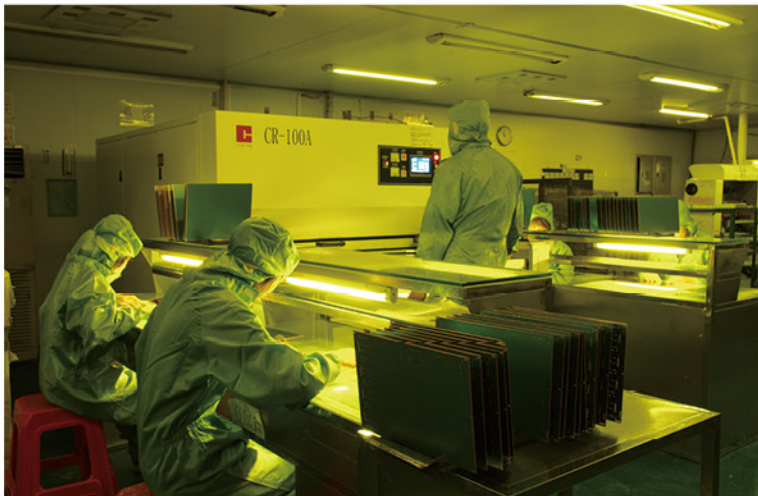


自动电镀线 Automatic Plating Line



蚀刻机 Etching





曝光机 Exposure



磨板机 Brushing



抗氧化机 OSP



丝印机 Silkscreen



涂布机 Wet Film Coating



铣板机 Routing



## 品质政策 Quality Policy



### 质量目标：

为达到世界级的质量标准，我们配备最好的工作团队、设备、技术及材料来生产我们的 PCB 产品。

### 质量政策：

『生产一流产品，满足客户需求』不但是我们对客户的承诺，也是我们联星公司的经营方针。



为提高客户的满意度和产品的品质水平，公司组建专门的品质部门，针对 PCB 生产的每一环节实施不同的品质策略，以助于我们产品品质及服务可以达到客户的期待。我们实行：

1. 所有的材料必须按标准检验入仓，并且满足客人的指定要求。
2. 所有的生产质量控制点必须全面贯彻执行。
3. 所有的成品必须进行 100% 终检，检验合格后才能出货。
4. 定期跟踪和回访客人对产品的使用情况，加强彼此联系。



### Quality Objective

In order to achieve world-class quality standard, we equip the best working teams, machines, technology and material for PCB manufacture.

### Quality Policy

『Make quality products to satisfy customers' requirements.』 is not only our commitment to customers, but also our LIANXING's operation policy.

In order to enhance customers' satisfaction and our product quality, we establish a specialized Quality Assurance department to practise different quality policy to make sure our product and service meet our customers' expectation. We carry out：

1. All the incoming materials must have a full inspection before warehousing and usage according to the specified and customer's required standard.
2. All the In-process quality control points must be fully executed during the production.
3. All the finished products must have 100% final inspection before delivery.
4. Regular tracking service on our provided products and continuous communication is obligatory in our company.







品质认证不但是我们的品质管理的保证，也是对客人的要求做出改善的正确途径；也能展示我们产品品质的能力。

Quality certification is not only the assurance for our quality management, but also the right way to improve our quality activities according to customers' requirements. Meanwhile, it demonstrates our product's quality capability.





## 环保政策 Environmental Protection Policy



厂部污水处理站  
Wastewater Treatment Station

环境保护和节约能源一直是我们联星公司的生产宗旨。为确保公司的持续发展，以及对员工、对客户、对社会尽善责任，落实企业环保工作，我们承诺经由不断的改善行动，以达到污染防治、提高资源利用率、带动产品升级。我们的行动包含：

1. 遵守国家环保法规及相关要求规定。
2. 加强资源的综合利用，降低生产成本，减少工业三废的排放。
3. 推广环保理念，提高员工的环保认知。
4. 改革生产工艺和设备，带动产品升级。
5. 综合治理工业废物，加强资源的回收和循环利用。



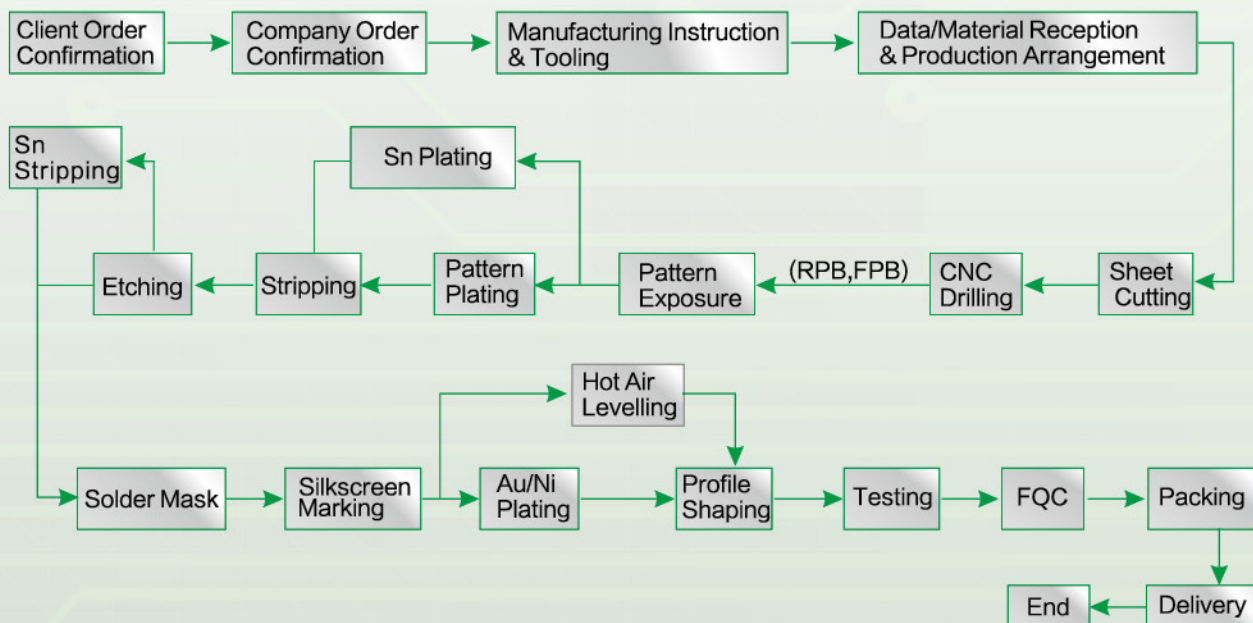
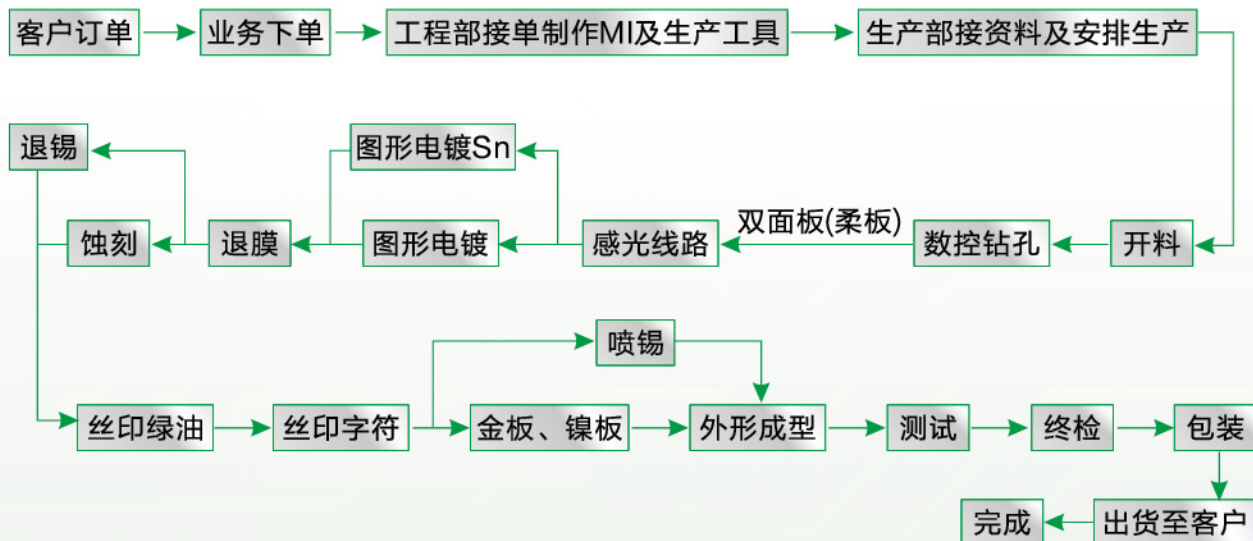
Environment protection and resource saving have been the basic policies in our LIANXING company. In order to ensure our company's sustainable development and implement the obligations to our employees, customers, society, together with our fulfillment of the environment protection work, we would promise to carry out continuous improvement work to achieve pollution prevention, increase resource utilization efficiency and upgrade our products. Our actions include:

1. Compliance with environmental protection laws and regulations, related requirements and provisions.
2. Strengthening of resource utilization efficiency to reduce the production cost, reduction on discharge of waste water, waste gas, industrial residue.
3. Promotion of environmental protection concept, and improvement of employee' s environmental protection idea.
4. Reform of production methods and equipments to upgrade our products.
5. Comprehensive disposal of industrial waste, strengthening of resource recycle and reuse.





## 生产流程图 Production Flow Chart





## PCB 工艺能力

### PCB Process Capability

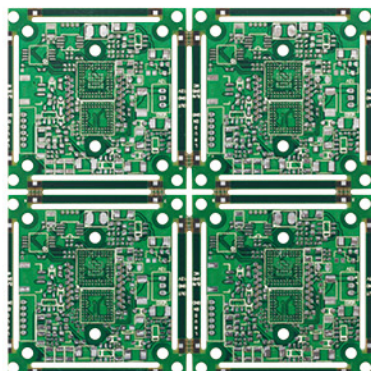
项 目	大量加工能力	小量加工能力
层数（最大）	2—18	2—30
板材类型	FR-4、FR-1、FR-2、CEM-1、CEM-3、HB、高 Tg 板材、无卤素板材、Rorgers、BT、Teflon、聚四氟乙烯、陶瓷基板、铝基板等	
板材混压	4 层—6 层	6 层—8 层
最大尺寸	610mm X 1100mm	610mm X 1100mm
外形尺寸精度	±0.13mm	±0.10mm
板厚范围	0.2mm—6.00mm	0.20mm—8.00mm
板厚公差 (t ≥ 0.8mm)	±8%	±5%
板厚公差 (t < 0.8mm)	±10%	±8%
介质厚度	0.076mm	0.076mm—0.100mm
最小线宽	0.12mm	0.1mm
最小间距	0.1mm	0.075mm
外层铜厚	8.75um—175um	8.75um—280um
内层铜厚	17.5um—175um	8.75um—175um
钻孔孔径（机械钻）	0.25mm—6.00mm	0.15mm—0.25mm
成品孔径（机械钻）	0.20mm—6.00mm	0.10mm—0.20mm
孔径公差（机械钻）	±0.05mm	±0.05mm
孔位公差（机械钻）	±0.075mm	±0.050mm
激光钻孔孔径	0.10mm	0.075mm
板厚孔径比	10:1	12:1
阻焊类型	感光油墨（白、绿、黄、黑、红、蓝）	
最小阻焊桥	0.12mm	0.1mm
最小阻焊隔离环	0.075mm	0.05mm
塞孔直径	0.25mm—0.60mm	0.60mm—0.80mm
阻抗公差	±10%	±5%
表面处理类型	热风整平、化学镍金、沉银、电镀镍金、化学沉锡、金手指卡板、OSP	
PCB 文件格式	GERBER, CAM350, PROTEL 99 SE, AUTOCAD, DXP, etc.	



Item	Big volume production	Small volume production
Layer Count	2-18	2-30
Laminates Style	FR-4,FR-1,FR-2,CEM-1,CEM3,HB, High Tg, Halogen-Free, Rogers ,BT, Teflon, PTFE, Ceramic based, aluminum based, etc.	
Mixed Lamination	4 — 6 layers	6 — 8 layers
Maximum Board Size	610mm X 1100mm	610mm X 1100mm
Profile Dimension Tolerance	± 0.13mm	± 0.10mm
Board Thickness	0.2mm — 6.00mm	0.20mm — 8.00mm
Thickness Tolerance ( t ≥ 0.8mm)	± 8%	± 5%
Thickness Tolerance ( t < 0.8mm)	± 10%	± 8%
Dielectric Thickness	0.076mm	0.076mm--0.100mm
Minimum Trace Width	0.12mm	0.1mm
Minimum Wire Spacing	0.1mm	0.075mm
Outer Layer Copper Thickness	8.75um — 175um	8.75um — 280um
Inner Layer Copper Thickness	17.5um — 175um	8.75um — 175um
Drilling Hole Dimension (CNC)	0.25mm — 6.00mm	0.15mm — 0.25mm
Finished Hole Dimension(CNC)	0.20mm — 6.00mm	0.10mm — 0.20mm
Drilling Diameter Tolerance(CNC)	± 0.05mm	± 0.05mm
Hole Position Tolerance(CNC)	± 0.075mm	± 0.050mm
Laser drilled Dimension	0.10mm	0.075mm
Aspect Ratio	10:1	12:1
Solder Mask Style	Liquid Photo-Imageable: White, Green, Yellow, Black, Red, Blue, etc.	
Minimum Solder Mask Dam	0.12mm	0.1mm
Minimum.Solder Mask Isolation Annular Ring	0.075mm	0.05mm
Plugged Hole Diameter	0.25mm — 0.60mm	0.60mm — 0.80mm
Impedance Tolerance	± 10%	± 5%
Surface Finish:	Hot Air Solder Leveling (HASL), Electroless Nickel/Immersion Gold(ENIG), Immersion Silver, Ni/Au Plating, Immersion Tin, Gold Finger Plating, OSP, etc.	
PCB Document Format	GERBER, CAM350, PROTEL 99 SE, AUTOCAD, DXP, etc.	



## 产品展示 Product Display



### 刚性电路板

产品类型：单面板、双面板、多层板

材 料：环氧树脂覆铜板

厚 度：0.16 ~ 3.0mm

铜导体厚度：9  $\mu\text{m}$  / 18  $\mu\text{m}$  / 35  $\mu\text{m}$  / 70  $\mu\text{m}$

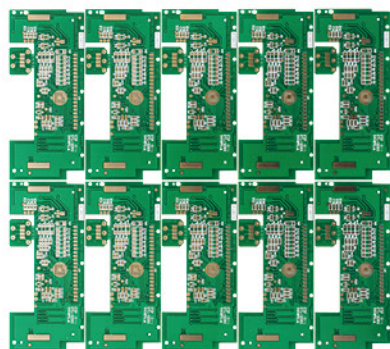
工 艺：喷锡（热风整平）、镀金、化学金、镀镍、化学镍金

最小线宽：0.10mm 最小间距：0.10mm

最小孔径： $\Phi 0.20\text{mm}$

月 产 量：20000 平方米

产品用途：航空、航天技术、音响系统、电脑、医疗仪器、LED 灯具等



### Rigid PCB Series

Product Style: Single-sided, Double-sided, Multilayer

Material: Epoxy Resin CCL

Thickness: 0.16 ~ 3.0mm

Thickness of Copper Conductor: 9  $\mu\text{m}$  / 18  $\mu\text{m}$  / 35  $\mu\text{m}$  / 70  $\mu\text{m}$

Process Capability: HASL, Ni/Au Plating, Immersion Gold, ENIG

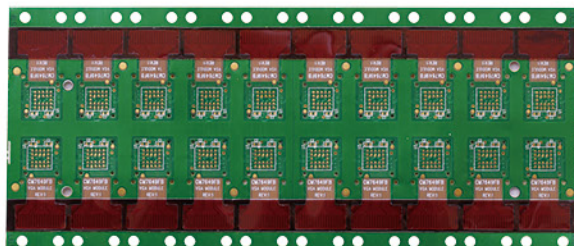
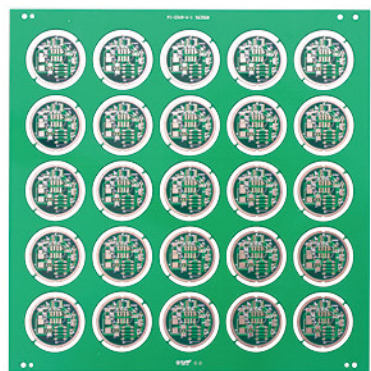
Minimum Trace Width: 0.10mm

Minimum Wire Spacing: 0.10mm

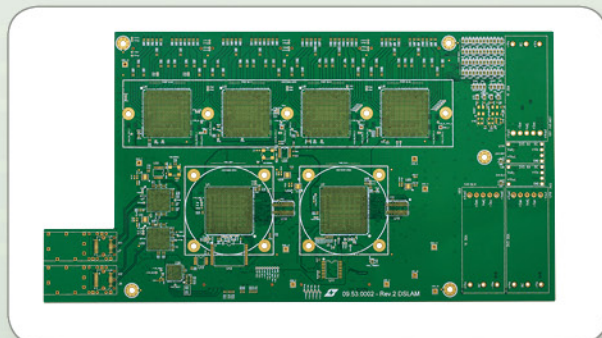
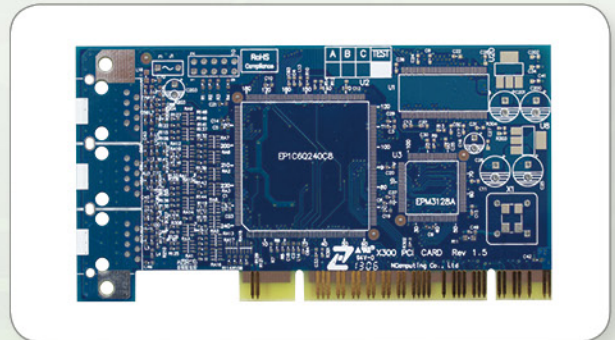
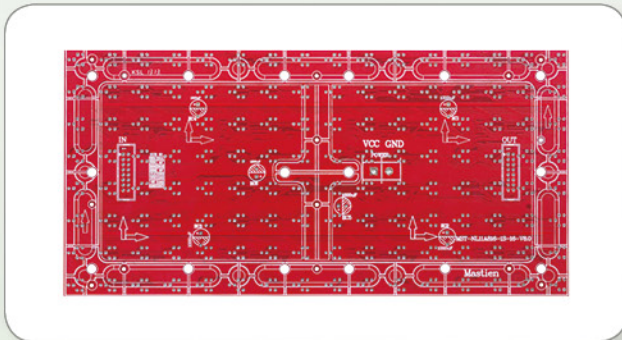
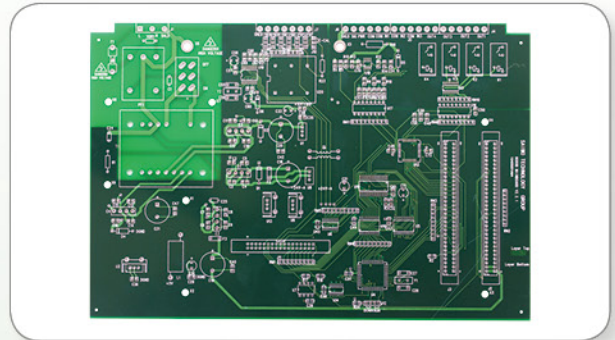
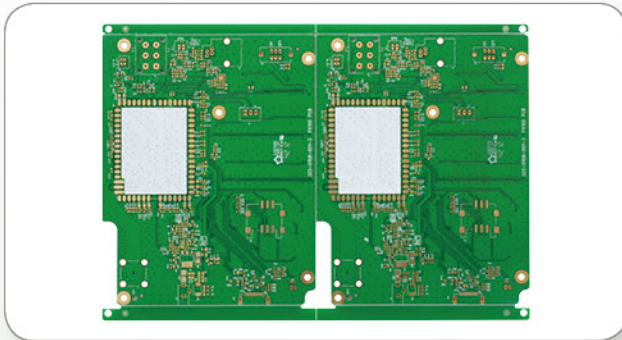
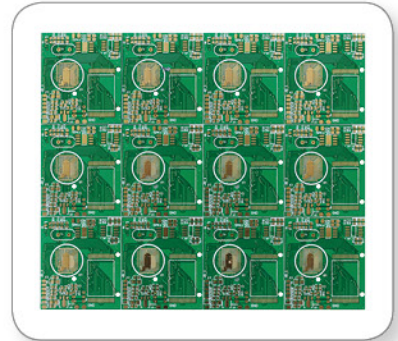
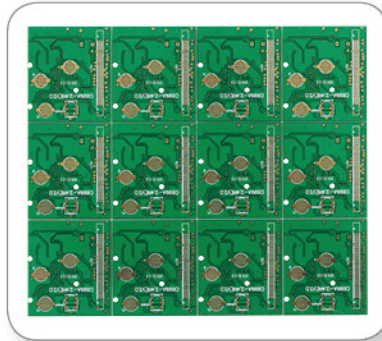
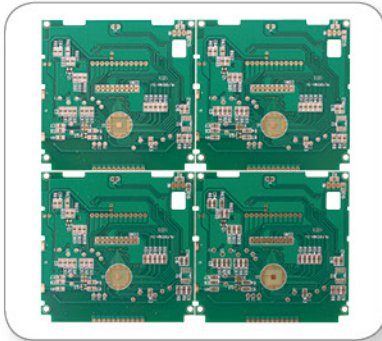
Minimum Drilling Diameter:  $\Phi 0.20\text{mm}$

Monthly Capacity: 20000  $\text{m}^2$

Application: Aerospace, Sound System, Computer, Medical Equipment, LED Lighting, etc.

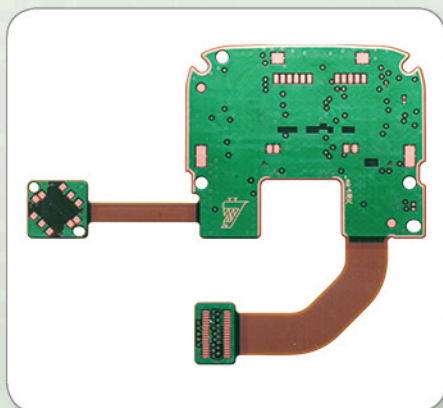
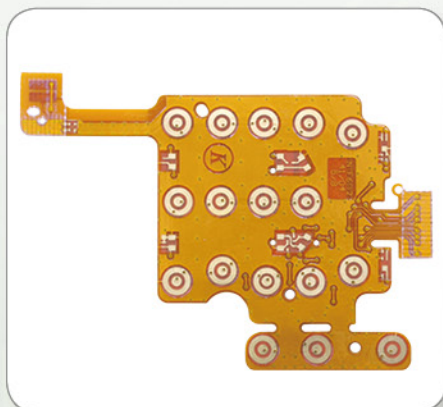
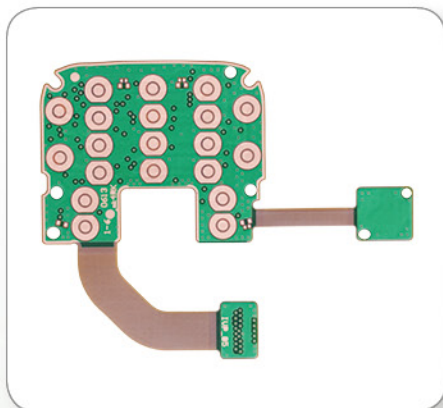








## 产品展示 Product Display



## 软性电路板

产品类型：单面板、双面板、多层板、软硬合板

材 料：聚脂 / 聚酰亚胺覆铜板

铜导体厚度： $9\mu\text{m}$  /  $12\mu\text{m}$  /  $18\mu\text{m}$  /  $35\mu\text{m}$  /  $70\mu\text{m}$

工 艺：镀金、镀镍、镀铅-锡、热风整平（喷锡）、OSP、化学镍金、化学锡、化学银

最小线宽：0.08mm 最小线距：0.06mm 最小孔径：0.20mm

月 产 量：20000 平方米

产品用途：照相机、汽车仪表、摩托车仪表、手机、手机电池、电脑、硬盘驱动器、激光光头、传感器、医疗仪器、航空航天高技术领域、LED 灯具等

## Flexible PCB Series

Product Style: Single-sided, Double-sided, Multilayer, Flex-Rigid

Material: Polyester/Polyimide FCCL

Thickness of Copper Conductor:  $9\mu\text{m}$  /  $12\mu\text{m}$  /  $18\mu\text{m}$  /  $35\mu\text{m}$  /  $70\mu\text{m}$

Process Capability: Au/Ni Plating, Lead-Tin Plating, HASL; OSP, Immersion Gold/Tin/Silver

Minimum Trace Width: 0.08mm

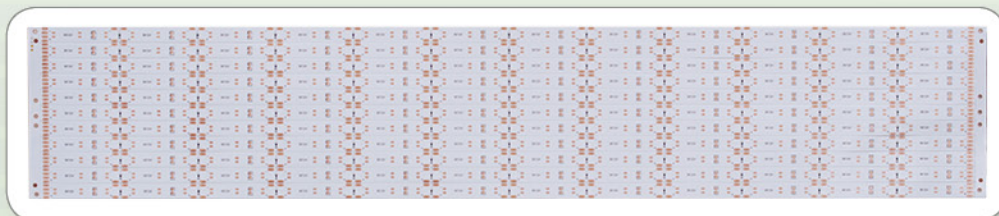
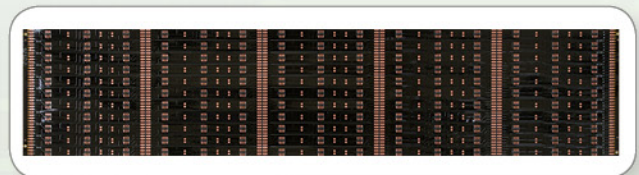
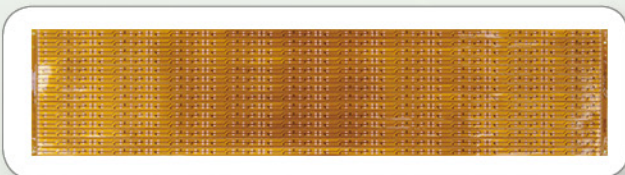
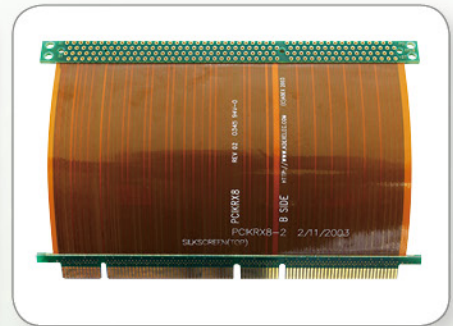
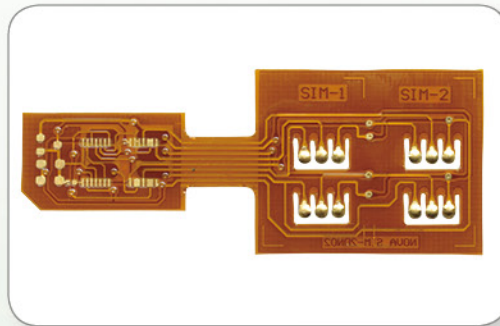
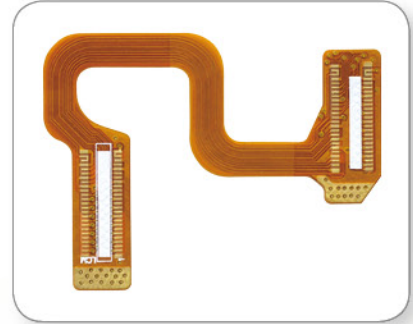
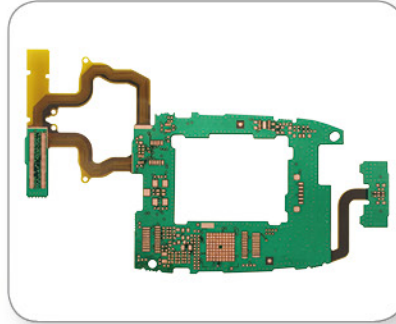
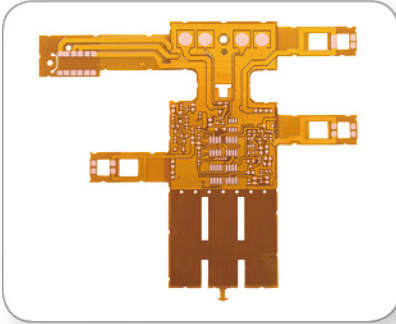
Minimum Wire Spacing: 0.06 mm

Minimum Drilling Diameter:  $\Phi 0.20\text{mm}$

Monthly Capacity: 20000  $\text{m}^2$

Application: Camera, Auto/Motorbike Meter, Cell Phone, Cell Phone Battery, Computer, Hard Disk Drive, Laser Head, Sensor, Medical Equipment, Aerospace, LED Lighting, etc.







## 产品展示 Product Display

### 铝基电路板

产品类型：单面板、双面板

材料：铝基覆铜板

厚度：0.60 ~ 3.0mm

铜导体厚度：18  $\mu\text{m}$  / 35  $\mu\text{m}$  / 70  $\mu\text{m}$

工艺：喷锡（热风整平）、OSP、化学金

最小线宽：0.15mm

最小间距：0.15mm

最小孔径： $\Phi 0.50\text{mm}$

月产量：10000 平方米

产品用途：LED 照明、电脑、电源设备、汽车等

### Aluminium Based PCB Series

Product Style: Single-sided, Double-sided

Material: Aluminium based CCL

Thickness: 0.60 ~ 3.0mm

Thickness of Copper Conductor: 18  $\mu\text{m}$  / 35  $\mu\text{m}$  / 70  $\mu\text{m}$

Process Capability: HASL, OSP, Immersion Gold

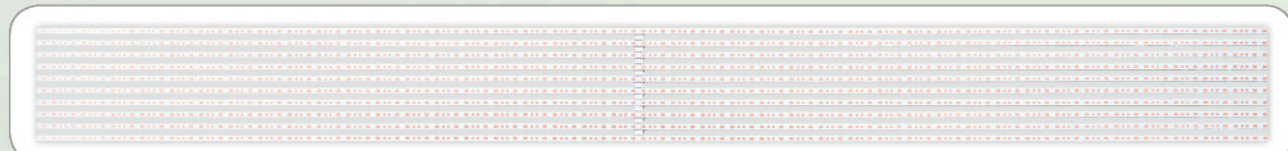
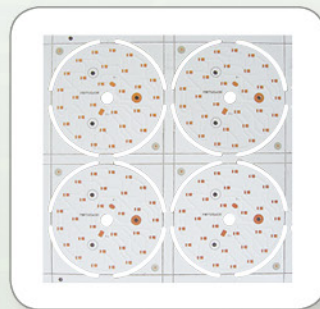
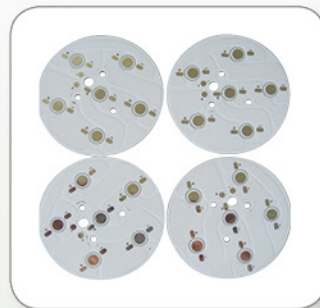
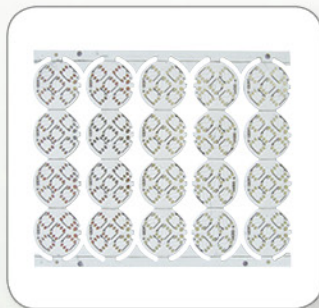
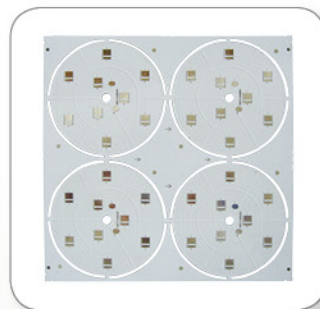
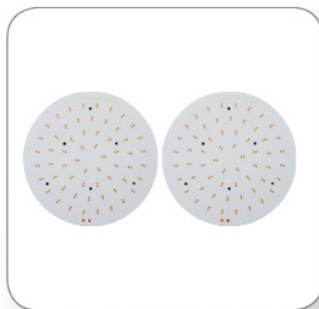
Minimum Trace Width: 0.15mm

Minimum Wire Spacing: 0.15mm

Minimum Drilling Diameter:  $\Phi 0.50\text{mm}$

Monthly Capacity: 10000  $\text{m}^2$

Application: LED Lighting, Computer, Power Supply Equipment, Automobile, etc.







## 目标与承诺 Goal & Commitment



联星——您最值得信赖的印刷电路板制造商

联星致力于建立一个强健的客人满意社团。我们将一直和客户保持良好的关系，并向他们供应高品质的定制印刷电路板。客户给予的每一个机会，我么也会竭尽全力，达成所求。

选择联星，将为您的印刷电路板事业达到利益最大化，我秉承着：

☆ 质量至上    ☆ 价格优惠    ☆ 服务一致    ☆ 快捷实用

LIANXING –The Most Reliable PCB Manufacturer

LIANXING aims to build a strong customer satisfaction community. We always work to maintain good relations with our customers by manufacturing custom PC boards of high quality as per their requirements. At every given opportunity, we put our sincere efforts to fulfill all your requirements.

It is most profitable to choose LIANXING for your PCB requirements as we provide:

- ☆ Best Quality
- ☆ Competitive Rates
- ☆ Consistent Services
- ☆ Prompt and helpful when responding to your needs



## **佛山市高明联星电路板有限公司**

**FOSHAN GAOMING LIANXING CIRCUIT BOARD CO., LTD.**

地址：广东省佛山市高明区沧江工业园海天大道 1 号

ADD.: NO. 1 HAITIAN AVENUE, CANGJIANG INDUSTRIAL PARK,  
GAOMING DISTRICT, FOSHAN CITY, GUANGDONG, CHINA

邮编 ZIP CODE: 528500

电话 Tel:

海外部 Overseas Marketing: +86-757-88611803

国内部 Domestic Marketing: +86-757-88628268

传真 Fax: +86-757-88628282

邮箱 E-mail:

海外部 Overseas Marketing: [export@fslxpcb.com](mailto:export@fslxpcb.com)

国内部 Domestic Marketing: [gmlxpcb@163.com](mailto:gmlxpcb@163.com)

网页 Web site: [www.fslxpcb.com](http://www.fslxpcb.com)