



**Shenzhen Xin Hongji Electronics Co.,Ltd**

**Shenzhen Xin Hung Technology Co.,Ltd**

**[www.3a5.com](http://www.3a5.com)**

— *T* echnic

创新

— *B* reakthrough

突破

— *P* rofessional

专业

— *I* ntegrity

诚信

— *H* armony

和谐

# XIN HONG JI PCB FACTORY





# Company Profile

Xin Hong Ji Electronics Co., Ltd located in Shenzhen Bao'an District beside 107 State Road, and the branch of Xin Chung-Hung Technology is in the second industrial area, Bitou Estate, which is close to Shenzhen International Airport and Shenzhen Fu Yong Ferry Terminal, water, land and air transportation is very convenient.

Our PCB factory is a wholly-owned Shenzhen Electronics Co., Ltd. We own from material, drilling, copper, electroplating, graphics, transfer, testing, molding one-stop precision production equipments and mainly produce single boards, double-sided boards, multi-layer boards, high-resistance carbon film circuit boards, high frequency impedance boards and thin sheet.

Our products widely apply to digital TV set-top box, decoders, LED light, car, micro-motor and so on. Our R & D engineering department, which has its own intellectual property products, we can prototype and design board, produce, SMT soldering, component sourcing service and so on.

Our company adhering to "innovation, breakthrough, professionalism, integrity and harmony" business philosophy, "customers first" principle to provide our quality service. Welcome to our factory tour guide!

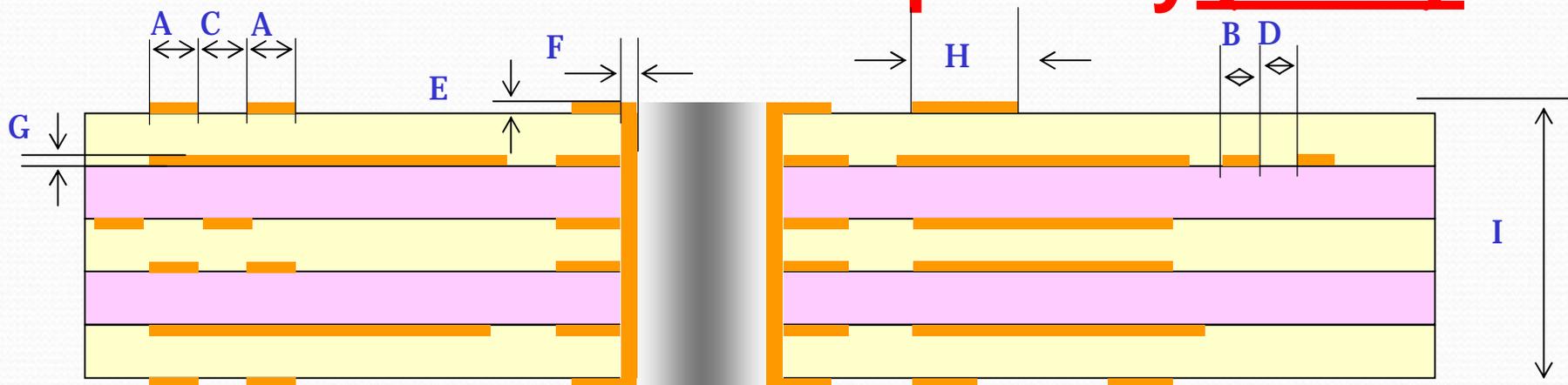
# *Quality Policy*

- Emphasis on cost control and superior quality of practice
  - Adhere to the continuous improvement to meet customers' requirements

# Production Capability (1/3)

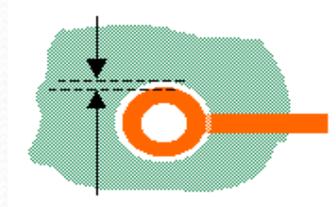
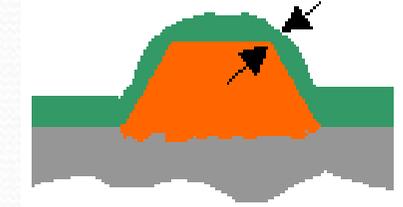
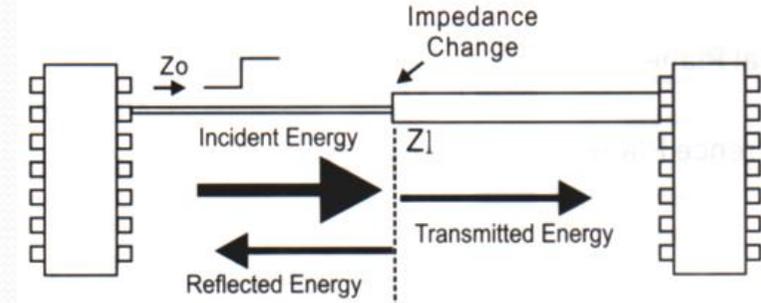
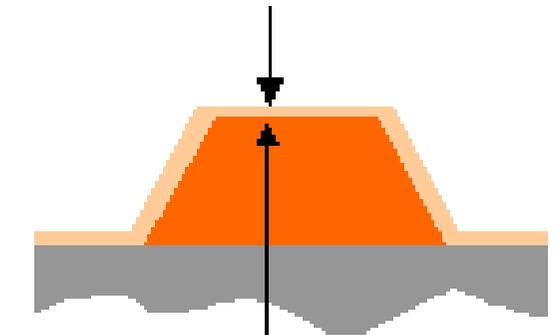
Item	Description
Layers	1-4 layers
Board finished thickness	0.10mm - 2.0mm
Material	FR-4, CEM-1, GF, FR4 Halogen Free.
Max. working panel	24" × 20" ( 610mm × 508mm )
Min. finished hole size	0.3mm
Min. track width/space	4/4mil (0.15/0.15mm)
Surface finish	HASL/HASL Lead free, Chemical gold, Chemical silver, Chemical Surface finish tin, OSP, Gold plating, Gold finger, Peelable mask, Carbon ink
Profiling	Punching, Routing, V-CUT, Beveling
V-Cut angle	20° 、 25° 、 30° 、 45°
Beveling angle	20° 、 25° 、 30° 、 45°
Aspect ratio	8:1

# Production Capability (2/3)



Item			Min.	Max.	Unit
Track width	Out layer	A	0.100	—	mm
	Inner layer	B	0.076	—	mm
Track space	Out layer	C	0.100	—	mm
	Inner layer	D	0.076	—	mm
Copper thickness	Surface	E	15	105	μm
	Hole wall	F	5	35	μm
	Inner layer	G	15	70	μm
BGA Annual Ring		H	0.33	—	mm
Board Thickness		I	0.10	2.0	mm

# Production Capability (3/3)

<b>Solder Mask Spacing</b>		 
Min.0.05 mm		
<b>Solder Mask Thickness</b>		
Min.10 um		
<b>Impedance Control</b>		
<p>Microstrip Impedance: 50~60 Ω Tolerance: ± 10% Differential Impedance: 90~120 Ω Tolerance : ± 10%</p>		
<b>Surface Finish</b>	<b>Thickness</b>	
1. HASL / HASL lead-free	>= 5μm	
2. OSP	0.15 μm ~ 0.30 μm	
3. Immersion Tin	0.75 μm ~ 1.00 μm	
4. Immersion Gold	Au:0.025~0.127 μm Ni: 2.54~ 5.08 μm	
5. Immersion Silver	0.20 μm ~ 0.30 μm	

# Main Production Equipment

Process	Device Name	Quantity	Process	Device Name	Quantity
Is expected to open	Cutting machine	1 set	Solder	Hand press	3 set
Drilling	Rig	1 set		Devel opers	1 set
Copper	Grinding plate Line	1 set	Formi ng	Beer	7 set
	Desmear Line	1 set		Gong machi ne	3 set
	PTH Line	1 set		V-CUT Machi ne	5 set
Full board power	Plating Line	1 set		Electrical Measurement	Dedi cated
Pattern transfer	Scrubbing Machine	1 set	Flyi ng Probe Tester		1 set
	Lami nati on machi ne	1 set			
	Exposure Machi ne (5k)	1 set			
	Devel opers	1 set			
Pattern Plating	Pattern Plating Line	1 set			
Etching	Etchi ng Line	1 set			
	Strippi ng line	1 set			

# Process and Equipment (1/8)



Drilling



Plating

## Process and Equipment (2/8)



**Pattern transfer**



**PTH**

## Process and Equipment (3/8)



**Alignment**



**Exposure**

## Process and Equipment (4/8)



**Resistance welding**



**Text**

## Process and Equipment (5/8)



**Etching**



**Developers**

# Process and Equipment (6/8)

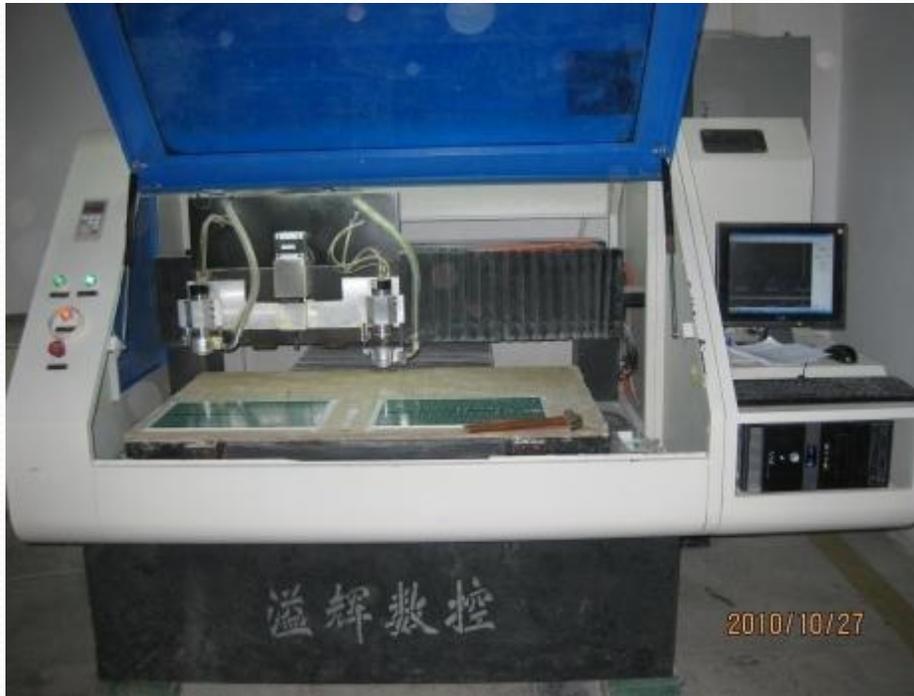


**Punch**

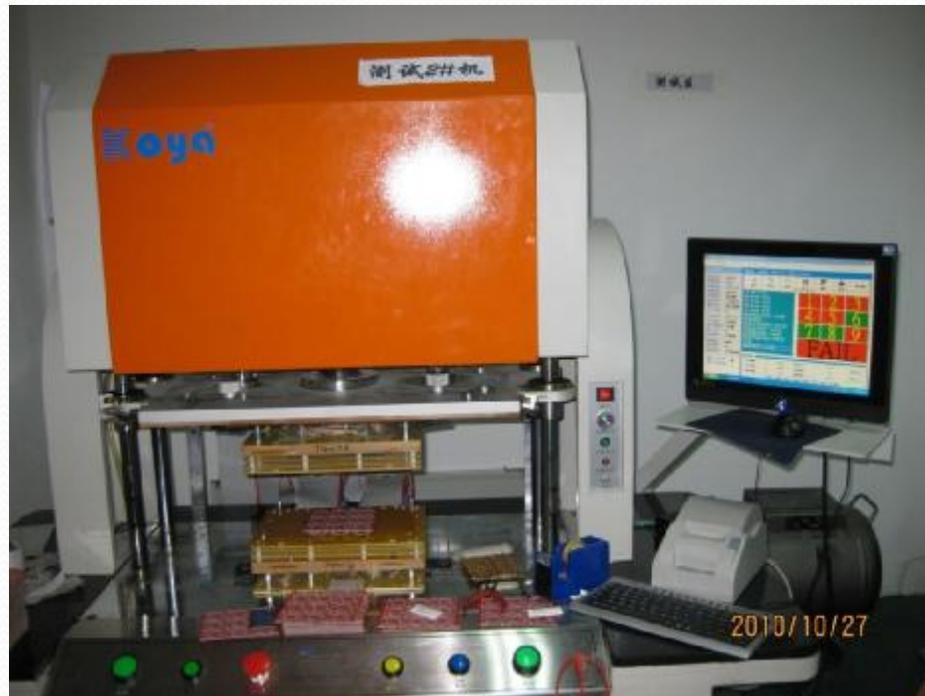


**V-CUT**

## Process and Equipment (7/8)



**Probe testing  
machine**



**Electrical Measurement  
Machine**

## Process and Equipment (8/8)

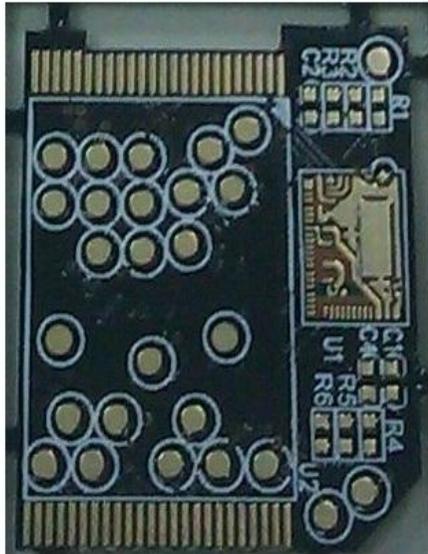


**Probe test**

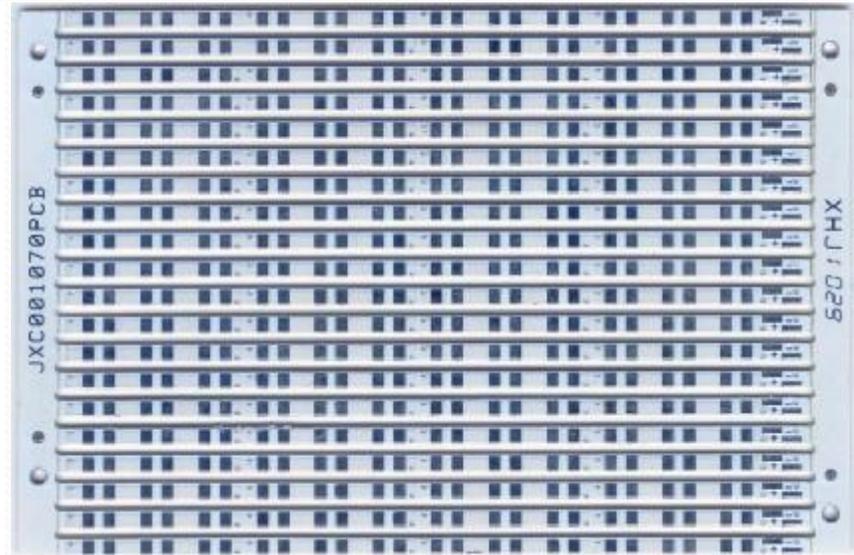
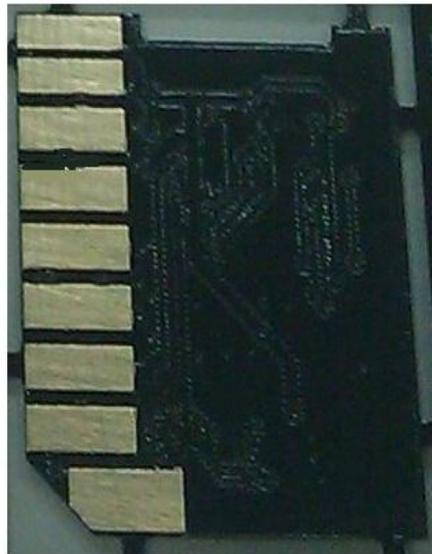


**Final inspection**

## The main products (1 / 6)



**SD card Immersion Gold  
Thickness 0.15mm ~ 0.25mm**

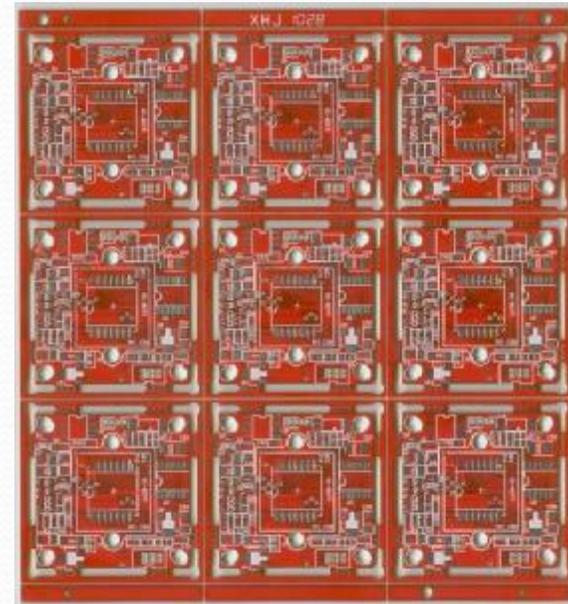


***LED light board (LED  
toothpick board PCB)***

## The main products (2 / 6)

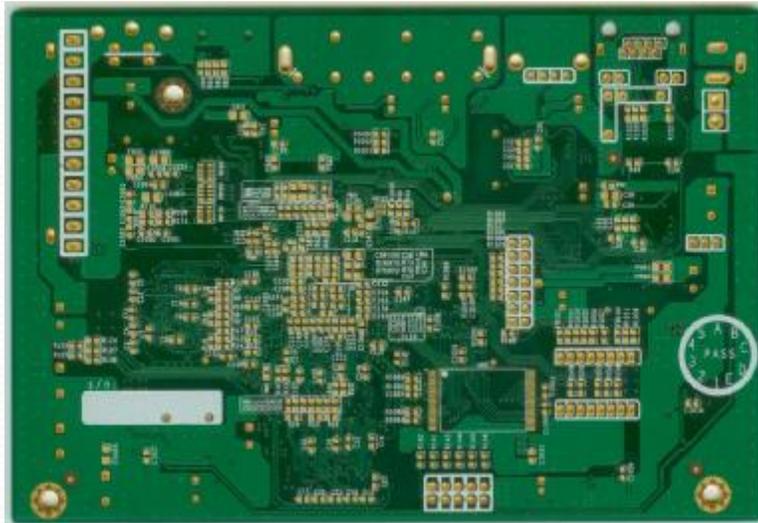


**IR LED camera  
sided circuit board**

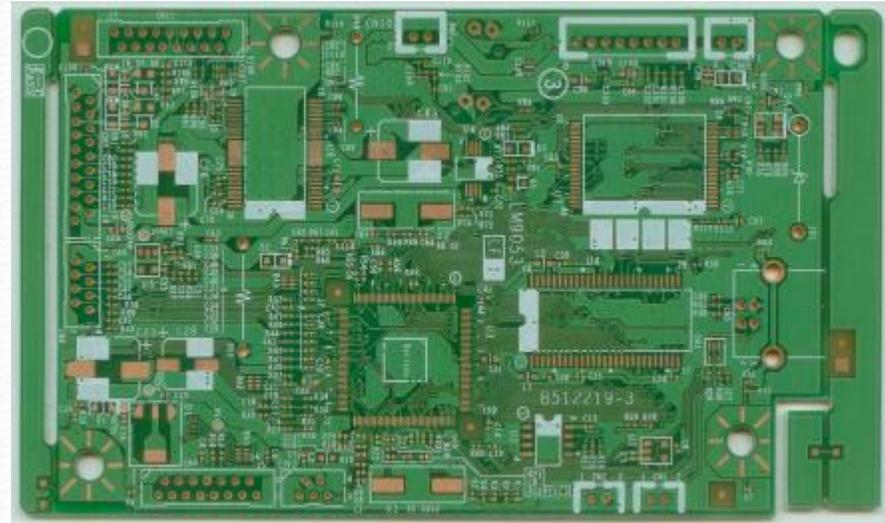


**Four-layer  
PCB camera**

## The main products (3 / 6)

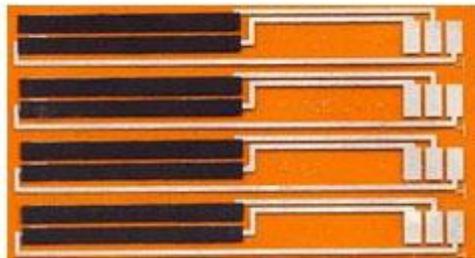


**4 layer PCB  
impedance digital  
TV broadcasting**



**6 layer high  
frequency  
impedance board**

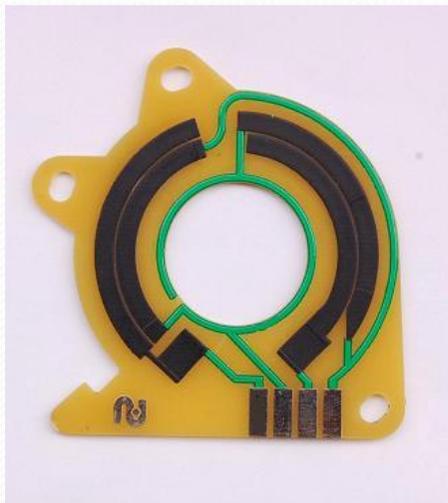
## The main products (4 / 6)



**FPC Flexible high impedance**



**Linear displacement sensor**

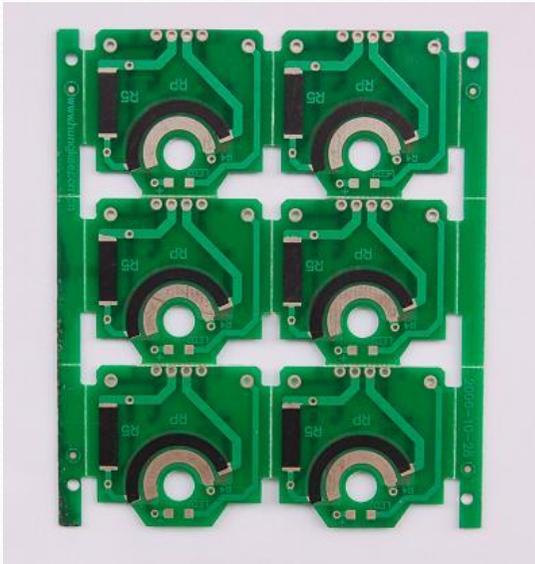


**Throttle angle sensor circuit board**



**Auto throttle angle sensor  
circuit board**

## The main products (5 / 6)

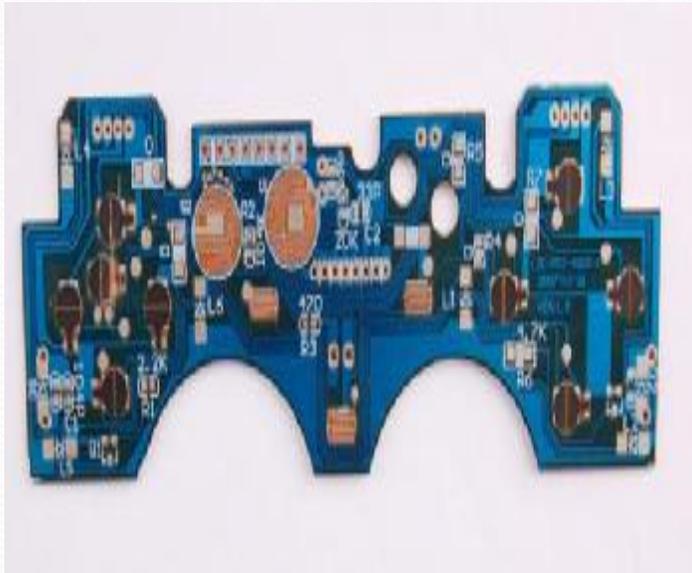


**Carbon film  
potentiometer angle  
sensor PCB**

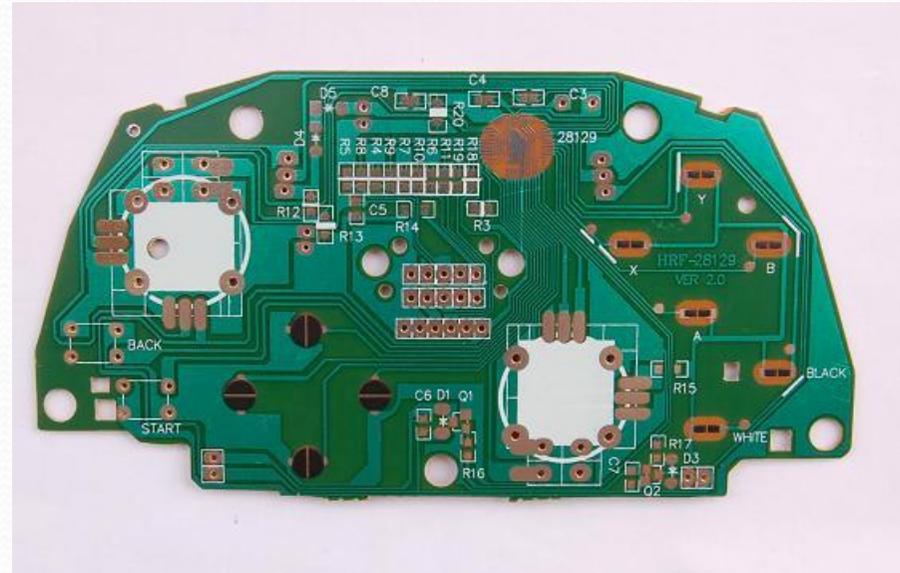


**Angle sensor PCB**

## The main products (6 / 6)



**High resistance of  
carbon single-  
sided PCB**



**Single precision  
positioning plate  
state**

# We are making Create a win-win partnership



“Customer first, profit sharing” is our company's business objectives. We believe that our excellent quality, fair price and satisfactory service will be your best choice. Looking forward to start our win-win cooperation in the near future!

# Thank you for your visit!

If you have any question or need, please contact us.  
We would like to be at your service sincerely.

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