



Focus make Professional

Shenzhen Chengtuo Electronic Co., LTD

Antenna-brochure



[www.kontec.com.cn](http://www.kontec.com.cn)

# Catalogue

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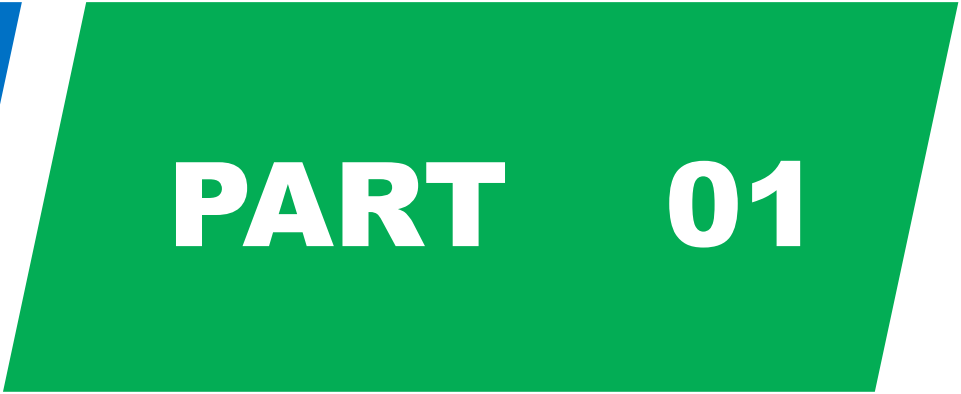
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# Company profile

# Company overview

Shenzhen Chengtuo Electronics Co., Ltd. was established in 2011. Passed TS16949 system certification in 2014. The company has advanced antenna research and development experimental equipment, production equipment, and a good working environment. Provide customers with reliable 4G, 5G lines, GPS antennas, Beidou antennas, high-precision antennas, DAB antennas, WIFI antennas, all-in-one antennas, electronic products and other high-quality products.



The company in line with the "people-oriented, scientific and technological innovation, harmony and win-win" business philosophy, the introduction of talent, and formed a stable technology research and development team, production management team, sales elite team, logistics support team. In the company under the active efforts of the entire staff, with good reputation, reliable quality, agile response, the leading technology, won a good reputation in the industry.

Looking forward to the future, Tuochuang Technology will continue to focus on industrial development, technology cultivation and the play of the overall advantages, constantly expand new business, do a good job in all services, make the brand "Tuochuang" bigger, better and stronger, realize the dream of building a first-class communication enterprise, and open a new chapter for communication technology to benefit the human society.



# About us

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## Enterprise vision

Focus on customer needs to obtain customer recognition; Improve the corporate image, so that employees have a sense of honor and pride, pay attention to corporate responsibility, care for the society, give back to the society, win social respect.



## Enterprise mission

Mission : Solve problems for customers through technology, service and quality.  
Make products and services to the best customers satisfaction, to bring customers convenience and timeliness.



## Operation principle

Operation principle : Everything depends on customers value.  
Pay attention to long-term development, willing to invest, improve research and development, production and manufacturing level, pay attention to customer demand, and grow together with users.



## Enterprise values

Values : Integrity, Progress, Cooperation, Innovation, Public Welfare.  
Abide by the national legal system, insist on fairness, honesty, and trustworthiness; grow with partners; create value for customers.

# Enterprise culture



## Beyond

*Surpass yourself, dedication and innovation, quality improvement, you can I can.*

## Exploit

*Develop ideas, keep pace with the times, and strive for progress.*

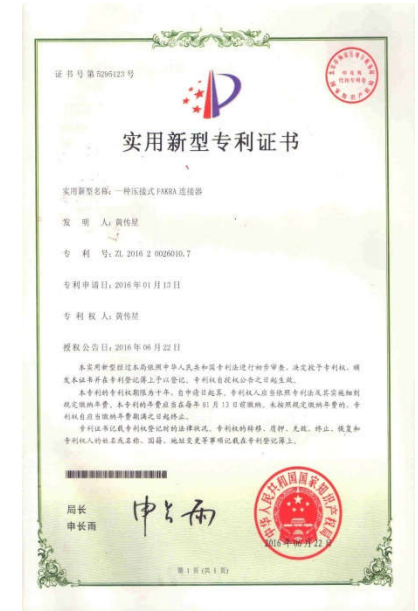
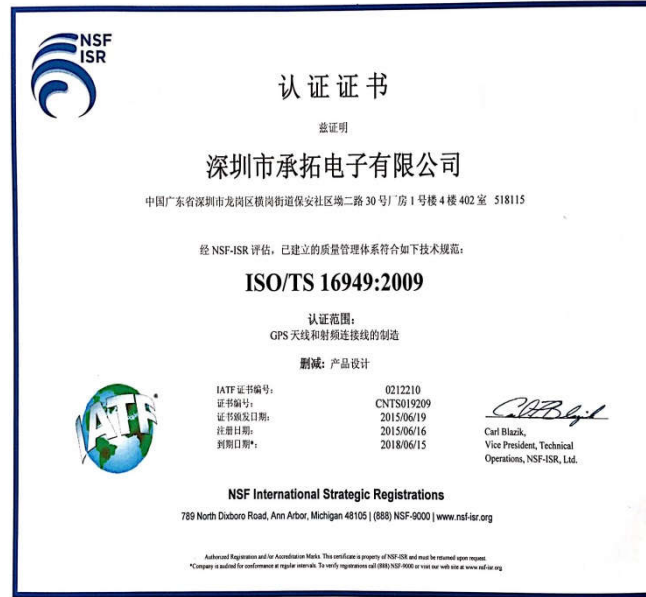
## Guide

*Leading technology, leading the future.*

## Innovate

*Technological innovation and scientific development*

# Enterprise certificates

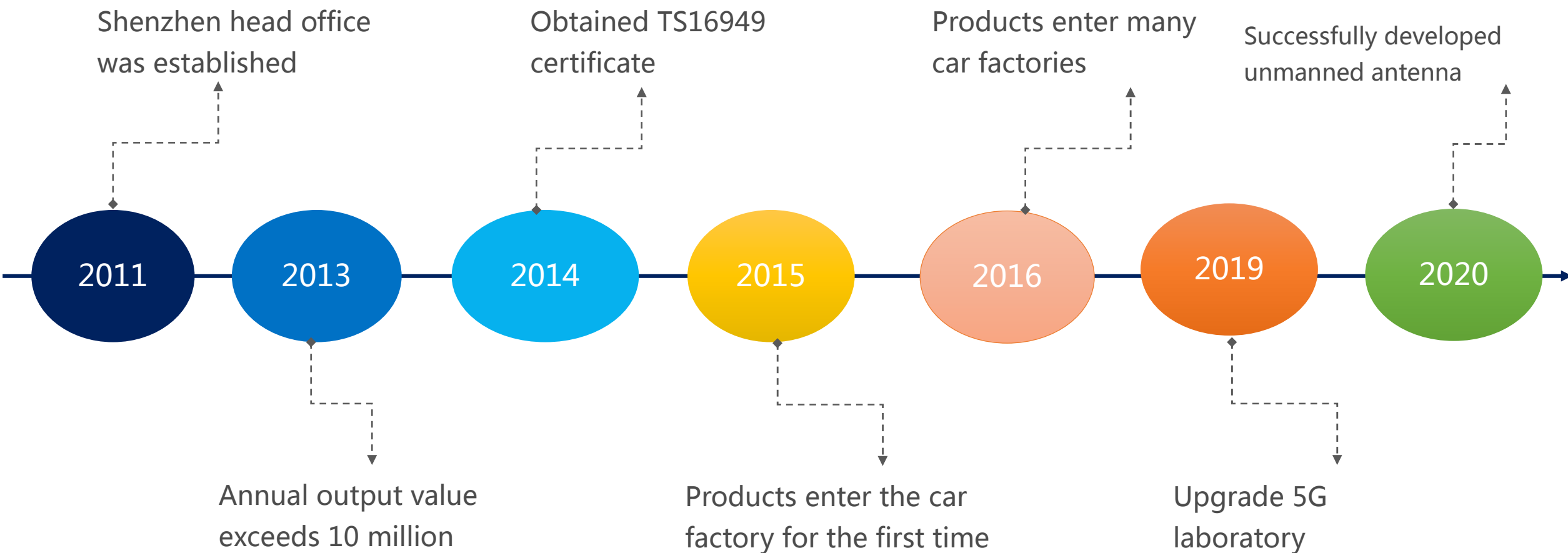


- 1 In 2014, the company obtained TS-16949 system certification
- 2 The company has obtained multiple appearance patents
- 3 The company has obtained a variety of utility models, invention patents, software copyrights, etc.





# Development path







# Enterprise bottom line

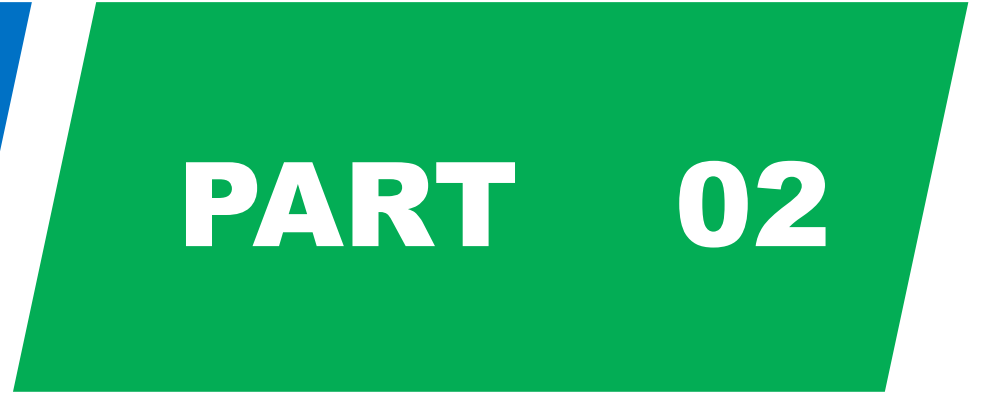
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Don't lie to customers for a penny

- Don't cut corners and make reasonable profits for the company

Don't owe a penny to the supplier

- Pay on time, get the best quality supply chain



**Enterprise style**

# Team style



Profession

Young

Innovate

Unity

We come from all over the world, but the common goal is pregnant with the same ideal, starting from different but the same destination, the young heart at this moment together, united, never give up, cut through the storm, brave to set sail.

# Company shows



Factory building



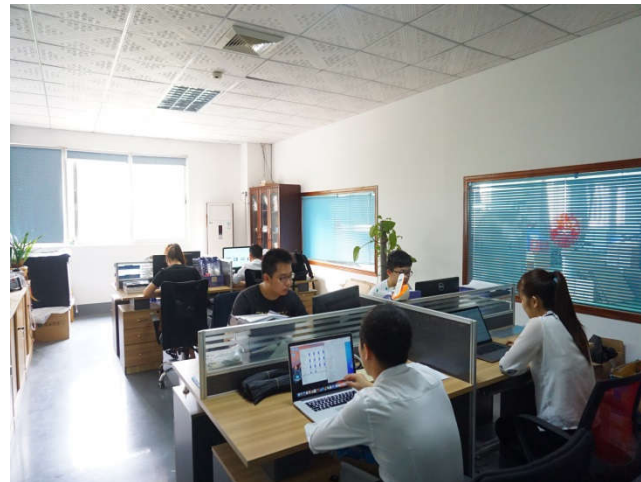
Corner of industrial park



Receptionist



Corner of work shop

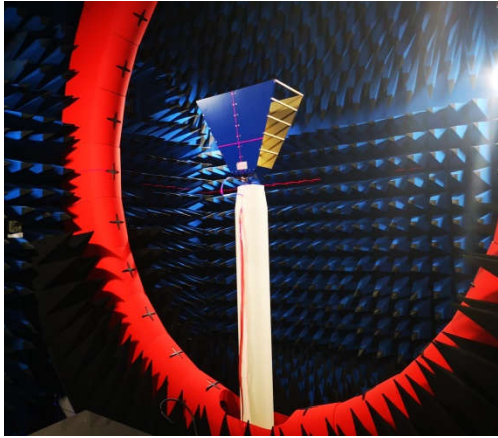


Office



Production line

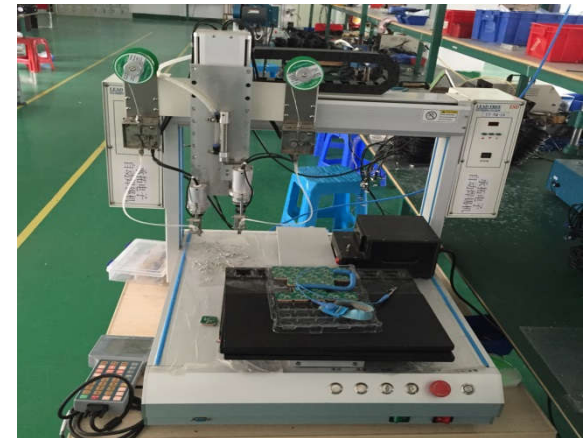
# Equipment Show



Signal test



Signal test instrument



Automatic soldering machine



Automatic wire stripping machine



Pull-off force tester



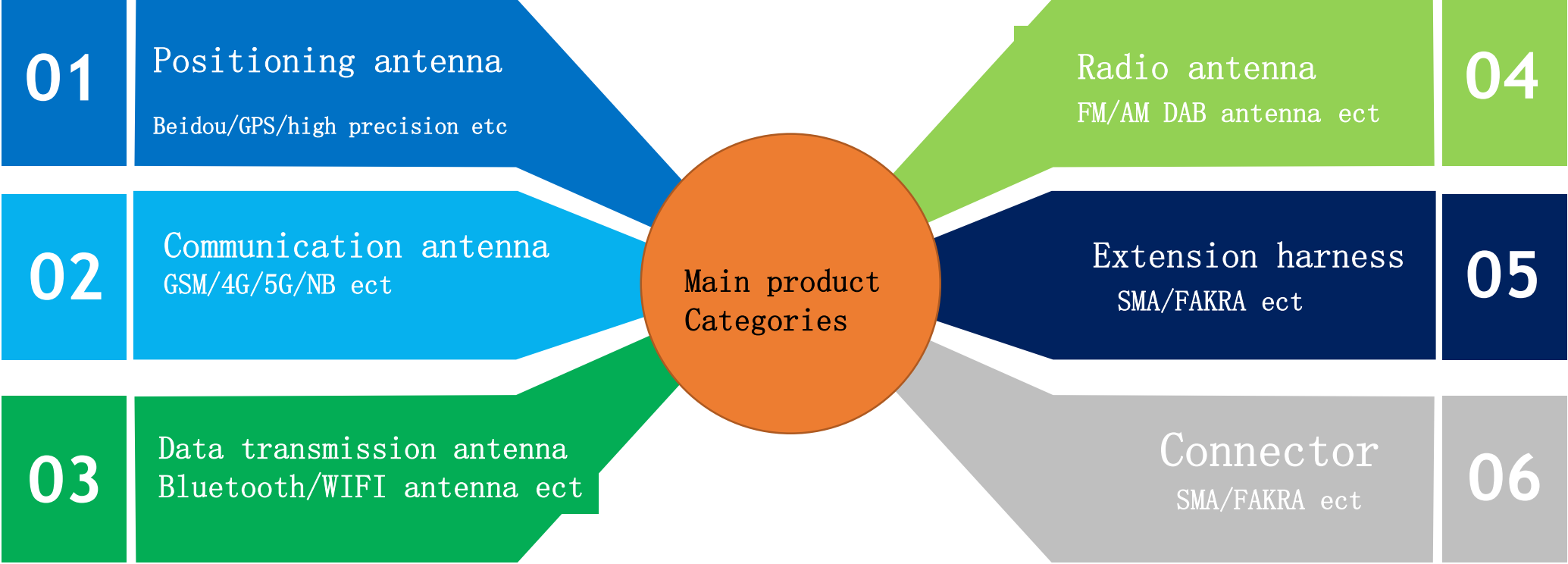
Cutting and tying machine



**PART 03**

# Main products

# Product Categories



# GPS/Beidou antenna



Product model:  
shark fin antenna

## ELECTRICAL

- Function: Support FM+AM
- Function: Support Beidou/GPS/GLONASS
- Function: Support 4G
- Function: Support WiFi
- Function: Support DAB

## OTHER PARAMETERS

- Material: ABS+PC
- Color: Black
- Cable: Cable:RG174/RG316.....
- Connector:SMA/MCX/BNC/FAKRA .....
- Size:



# GPS/Beidou antenna



Product model:  
car overhead antenna

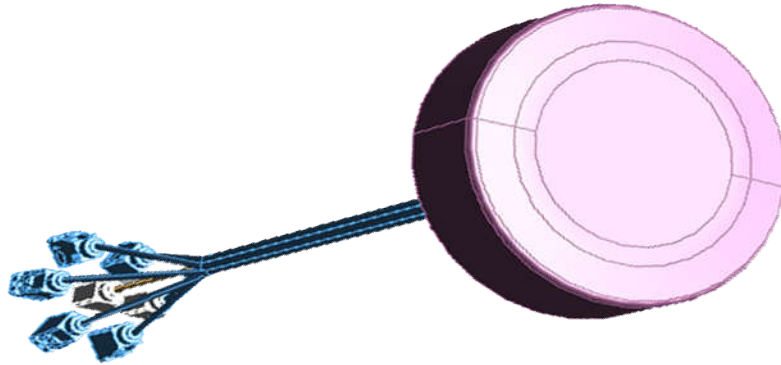
## ELECTRICAL

- Function: Support FM+AM
- Function: Support DAB
- Gain:  $28 \pm 2$  dBi
- Voltage: 12V

## OTHER PARAMETERS

- Material: ABS+PC
- Color: Black
- Cable: Cable: RG174/RG316.....
- Connector: SMA/MCX/BNC/FAKRA .....
- Size:

# 5G driverless antenna



Product model:  
car driverless antenna

## ELECTRICAL

- Frequency Range:  
1176/1227/1575/1561/1602MHz
- Impedance:  $50 \Omega$
- V. S. W. R. :  $\leq 1.5$
- Gain:  $28 \pm 2\text{dBi}$
- 5G frequency: V2X\*2 / LTE\*2
- Voltage: 3V-5V

## OTHER PARAMETERS

- Material: ABS+PC
- Color: Black
- Cable:Cable:RG174/RG316.....
- Connector:SMA/MCX/BNC/FAKRA .....
- Size: 100mm

# GPS/BeiDou/GLONASS Antenna/High precision antenna



Product model: K1



Product model: K2



Product model: K3

ELECTRICAL	OTHER PARAMETERS
<ul style="list-style-type: none"><li>•Frequency Range: 1176/1227/1575/1561/1602MHz</li><li>•Impedance: 50 Ω</li><li>•V. S. W. R. : <math>\leq 1.5</math></li><li>•Gain: <math>28 \pm 2</math> dBi</li><li>•Voltage: 3V-5V</li></ul>	<ul style="list-style-type: none"><li>•Material: ABS</li><li>•Color: Black</li><li>•Cable: Cable: RG174/RG316.....</li><li>•Connector: SMA/MCX/BNC/FAKRA .....</li><li>•Size:</li></ul>

## GPS+4G/WIFI Combination antenna



Item: K8



Item: K9

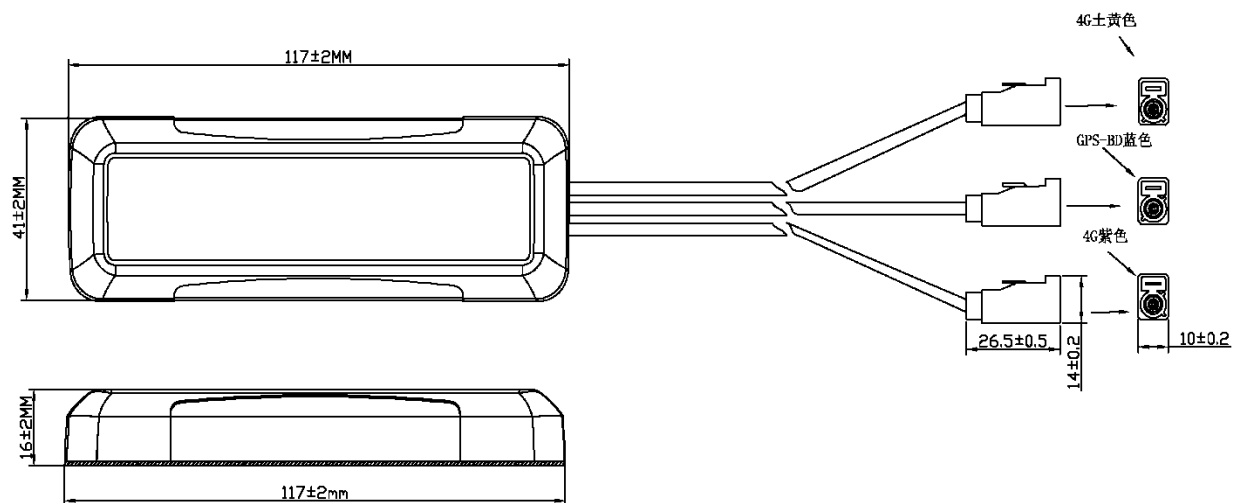
### ELECTRICAL

- Frequency Range:  
1574.42MHz/1561.098MHz/1602MHz
- GSM/4G Frequency : 800-960/1710-2700MHz
- Impedance: 50  $\Omega$
- V. S. W. R. :  $\leq 1.5$
- Gain:  $28 \pm 2$  dBi
- Voltage: 3V-5V

### OTHER PARAMETERS

- Material: ABS+PC
- Color: Black
- Cable: RG174/RG316.....
- Connector: SMA/MCX/BNC/FAKRA .....
- Mounting: Magnetic Or Viscosity
- Size: 89\*42\*14.5mm

## GPS+Main 4G+Minor4G Combination antenna



Product item: K7

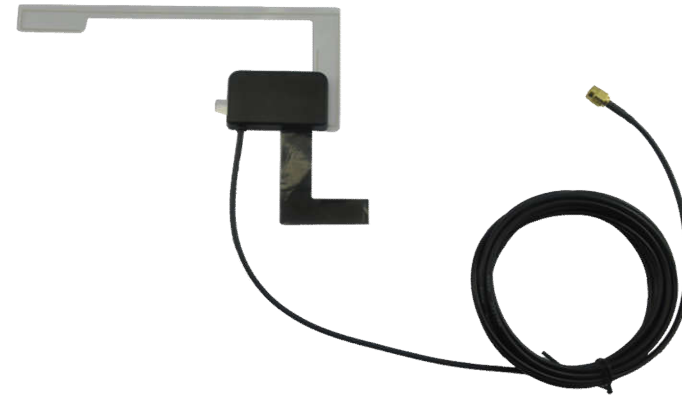
### ELECTRICAL

- Frequency Range:  
1574.42MHz/1561.098MHz/1602MHz
- GSM/4G Frequency : 800-960/1710-2700MHz
- WIFI Frequency: 2400-2500MHz
- Impedance:  $50 \Omega$
- V. S. W. R. :  $\leq 1.5$
- Gain:  $28 \pm 2\text{dBi}$
- Voltage: 3V-5V

### OTHER PARAMETERS

- Material: ABS+PC
- Color: Black
- Cable:RG174/RG316.....
- Connector:SMA/MCX/BNC/FAKRA .....
- Mounting: Magnetic Or Viscosity
- Size: 117\*41\*16mm

# DAB Radio antenna



Product Item: DAB-001

## ELECTRICAL

- Frequency Range:  
163.3MHz - 240.06MHz (DAB-III)  
1452MHz - 1492MHz (DAB-L)
- Impedance: 50  $\Omega$
- V. S. W. R. :  $\leq 2.0$
- Gain: 15dB Min.  $\pm 2$  (DAB-III)  
12dB Min.  $\pm 2$  (DAB-L)

## OTHER PARAMETERS

- Material: ABS+PE
- Color: Black
- Cable:RG174/RG316.....
- Connector:SMA/MCX/BNC/FAKRA .....
- Mounting: Double-sided tape

# 2G/3G/4G antenna



Item: TP001



Item: DTP002

Suitable for 2G/3G/4G/5G, WIFI antenna

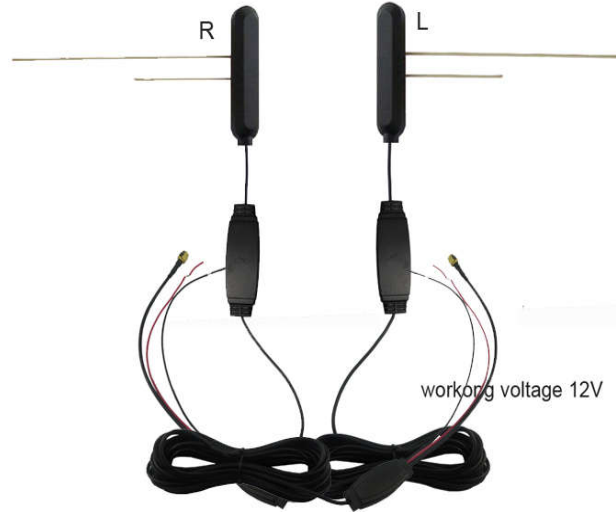
## ELECTRICAL

- Frequency Range:  
2G (900MHz-1800MHz)  
3G (1880-1900/2010-2025MHz)  
4G (1880-1900/2320-2370/2575/2635MHz)  
5G (2515-2675/3400-3700/4800-4900MHz)
- Impedance: 50  $\Omega$
- V. S. W. R. :  $\leq 2.0$
- Gain: 3dBi

## OTHER PARAMETERS

- Material: ABS+PC
- Color: Black
- Cable:RG174/RG316.....
- Connector:SMA/MCX/FAKRA .....
- Mounting: Viscosity
- Size:

## Car digital TV antenna



### ELECTRICAL

- Frequency Range:  
170~240MHz, 470~862MHz
- Impedance: 50  $\Omega$
- V. S. W. R. :  $\leq 2.0$
- Gain: 0-3dBi

### OTHER PARAMETERS

- Material: Film/Silver Paste
- Color: White
- Cable:RG174/RG316.....
- Connector:SMA/MCX/FAKRA .....
- Mounting: Double-sided tape
- Size:



# Internal antenna

Internal antenna can match multiple frequencies according to requirements



## ELECTRICAL

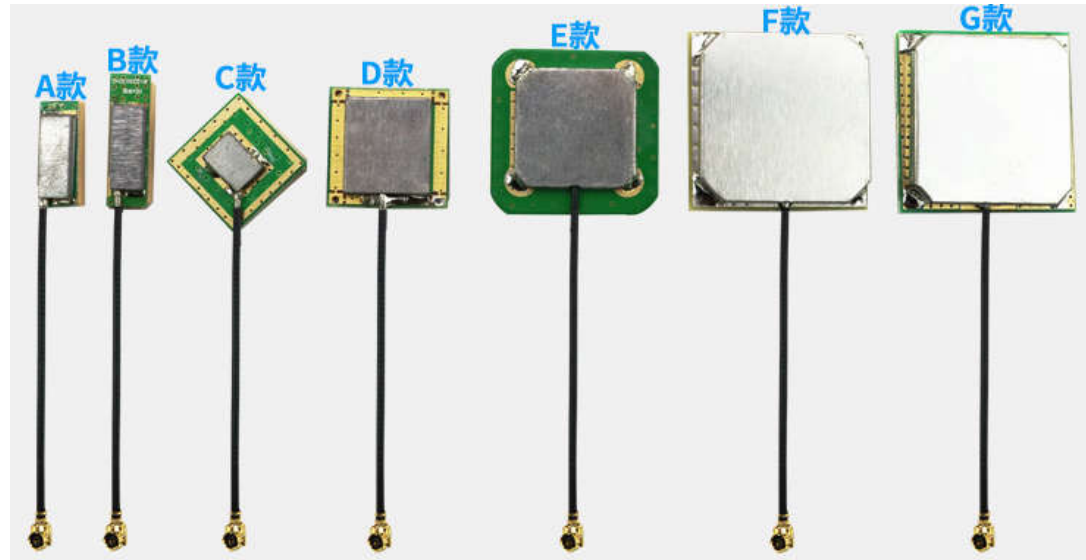
- Frequency Range: 2G/3G/4G/5G/WIFI
- Impedance:  $50 \Omega$
- V. S. W. R. :  $\leq 2.0$
- Gain:  $-4 \sim 3\text{dBi}$

## OTHER PARAMETERS

- Material: PCB/FPC/Copper tube
- Color: Green/Black/Yellow
- Cable: 1.13/1.37/RG174/RG316.....
- Connector: IPEX SMA/MCX .....
- Mounting: Viscosity
- Size:

# Internal GPS antenna

Internal antenna can match  
multiple frequencies  
according to requirements



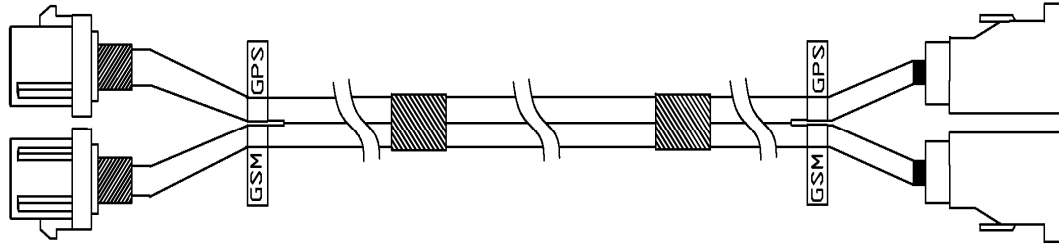
## ELECTRICAL

- Frequency Range:  
1176/1227/1575/1561/1602MHz
- Impedance: 50  $\Omega$
- V. S. W. R. :  $\leq 2.0$
- Gain:  $-2 \sim 5$  dBi

## 其他 OTHER PARAMETERS

- Material: Ceramics/PCB
- Color: Green/Yello
- Cable: 1.13/1.37/RG174/RG316.....
- Connector: IPEX SMA/MCX .....
- Mounting: Viscosity
- Size: A variety of sizes are available

# Signal transmission harness



Signal transmission harness

## ELECTRICAL

- Frequency Range: 0-6G
- Impedance:  $50 \Omega$
- V. S. W. R. :  $\leq 2.0$

## OTHER PARAMETERS

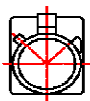
- Material: PA66
- Color: Black
- Cable:RG174.....
- Connector: SMA/MCX/BNC/FAKRA .....

# FAKRA Connector



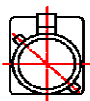
A

黑色  
BLACK



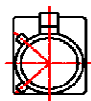
B

白色  
CREAM



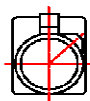
C

蓝色  
BLUE



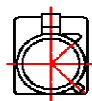
D

紫红色  
VIOLET



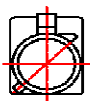
E

军绿色  
GREEN



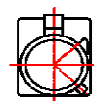
F

棕褐色  
BROWN



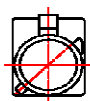
G

灰色  
GREY



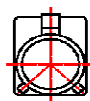
H

粉红色  
HEATHER  
VIOLET



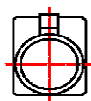
I

米黄色  
BEIGE



K

土黄色  
CURRY



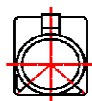
Z

水蓝色  
WATER  
BLUE



L

精红色  
CARMINE  
RED



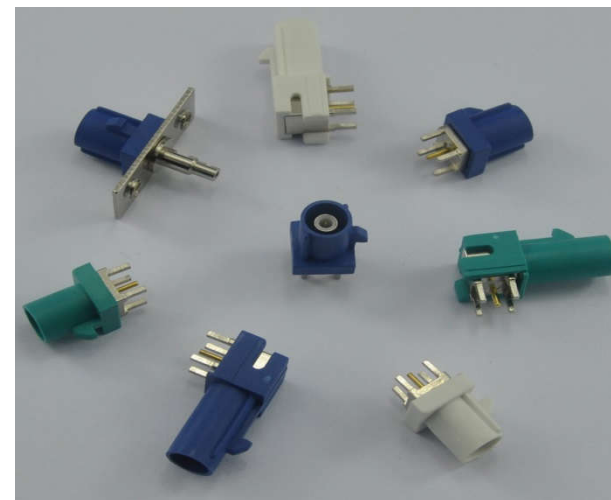
M

橙色  
PASTEL  
ORANGE



N

浅绿色  
PASTEL  
GREEN



Item: DAB-001

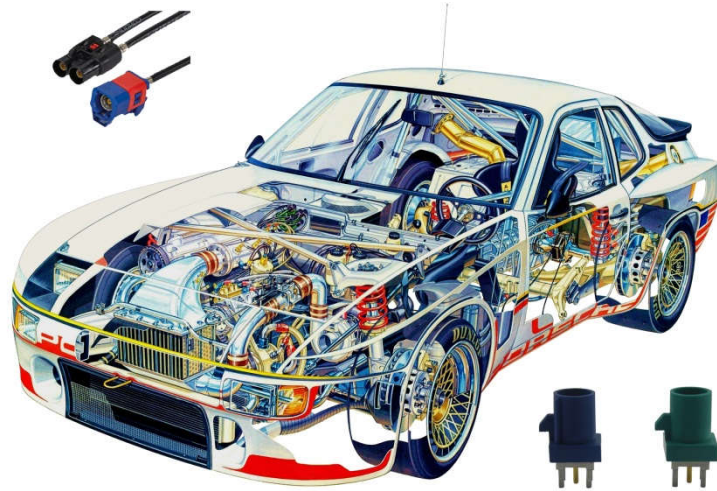
## ELECTRICAL

- Frequency Range: 0-4G
- Impedance: 50 Ω
- V. S. W. R. : ≤1.5
- Voltage resistance: 1000V

## OTHER PARAMETERS

- Material: PA66
- Color: Blue/Purple/Turquoise/Yellow.....
- Metal: Copper
- Connector: FAKRA

# Coaxial bundle



Item NO.: FAKRAA dapter cable

## ELECTRICAL

- Frequency Range: 0-4G
- Impedance: 50  $\Omega$
- V. S. W. R. :  $\leq 1.5$
- Voltage resistance: 1000V

## 其他 OTHER PARAMETERS

- Material: PA66
- Color:
- Metal: Copper
- Cable:RG174/RG316/1.13/178/1.37.....
- Connector:FAKRA

# Product application field



Vehicle scheduling



GPS



Navigation positioning



Outdoor tracking



Bus monitoring



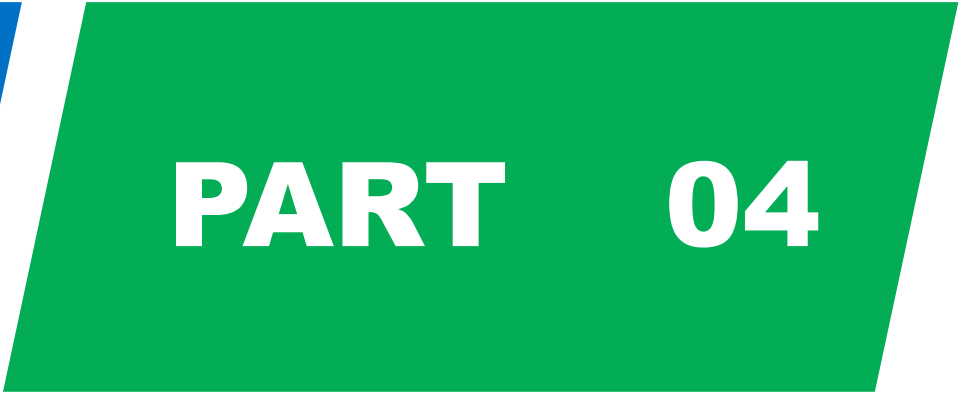
Home smart



Car tv



Data collection



# Enterprise advantage



# Enterprise advantage

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## Advantage

- 9 years experience in manufacturing management
- The product has been certified by the car factory for many years
- Familiar with vehicle regulations and standards, and have a stable supply chain system





## Some customers

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**HSAE** 航盛



**徐港**  
专业铸造品质  
Specialty Make Quality

**LiHua** 力华集团

## Some models of product application





## Contact information

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Focus make Professional

**Thank you for watching**

Planning division

