

# JC Antenna

## ZHEJIANG JC ANTENNA CO., LTD.

To be a world-leading microwave communication manufacturer

To be a world-class electronic brand

📍 398#zhenye Road, jiaxing, ZJ, China / 1897#jiashandadao, jiashan, ZJ, China

🌐 [www.jinchanggps.com](http://www.jinchanggps.com)





## Contents

- **Company Introduction**
- **R & D Capabilities**
- **Manufacturing**
- **Product Introduction**
- **Application**

## PART 01

# Company Introduction



## 1 Profile

Zhejiang JC antenna Co., Ltd. is founded in the 1990s, and located in Jiashan County, Zhejiang Province, the core of the Yangtze River Delta business integration Economic zone. Over the past 20 years, JC has adhered to the high quality development of science and technology, and built itself into a group enterprise integrating 4G/5G communication, GPS/ Beidou navigation and AI sensing imaging technology. Its products have realized the full coverage of devices, components, terminals, solutions and engineering integration. It is widely used in intelligent networking fields such as vehicle networking, aircraft networking, electric networking, surveying and mapping, aerospace, precision farming, intelligent transportation, smart ports, ocean berths, open-pit mining areas, tunnels and indoor navigation, and has become an industry leader.

 4G/5G communication



AI sense



GPS/Compass navigation



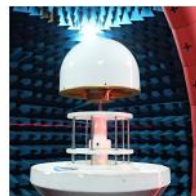
## 2 Enterprise Development History



1999.12  
BEGINNING  
Established  
Jiashan Factory



2009.8  
MANUFACTURER  
Established Jiashan  
Factory



2019  
TECHNOLOGY  
Provincial R&D Center



2022  
BEGINNING  
National Specialized  
and Innovative Little-Giant



2009.6  
INNOVATION  
Obtained National  
High tech Enterprise



2017-2020  
POWER  
A public company  
in NEEQ

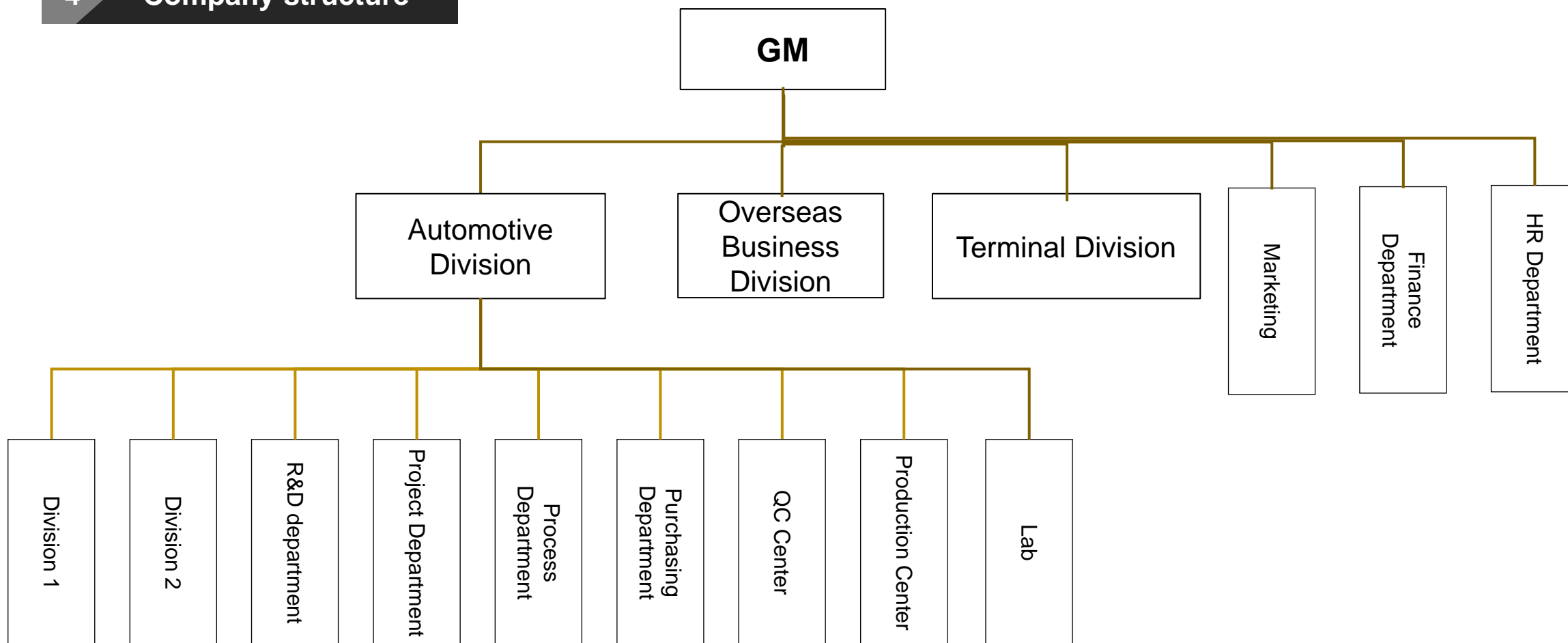


2019  
PATENT  
Patent demonstration  
enterprise

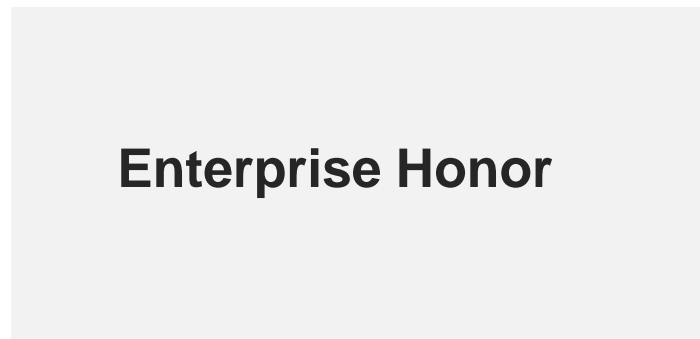


2022  
INDUSTRIAL PARK  
Building a 5G  
Industrial Park

4 Company structure



## 5 Enterprise Honor



## 5 Enterprise Honor

**National and provincial honors**

- National high-tech enterprise
- National-level specialization and new "Little Giant" enterprise
- The Ministry of Science and Technology Innovation Fund Special Project Two Awarded Enterprises
- Provincial technology research and development center
- Provincial Patent Demonstration Enterprise
- Provincial Major Science and Technology Special Enterprise
- Provincial electronic information 50 growth characteristic enterprises
- Collaborative innovation enterprise of high-quality development industry chain of provincial manufacturing industry

**Business Status Industry Association**

- Vice Chairman of China Satellite Application Industry Alliance
- Director of China 5G Autonomous Driving Alliance
- Member of Surveying and Mapping Association
- Member of Shanghai Beidou Industrial Strategic Alliance
- Director of Zhejiang Beidou Alliance
- Member of Zhejiang 5G Association
- Member of Shenzhen UAV Association Member of Jiaxing 5G Association



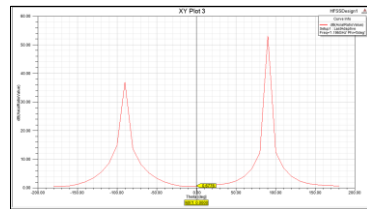
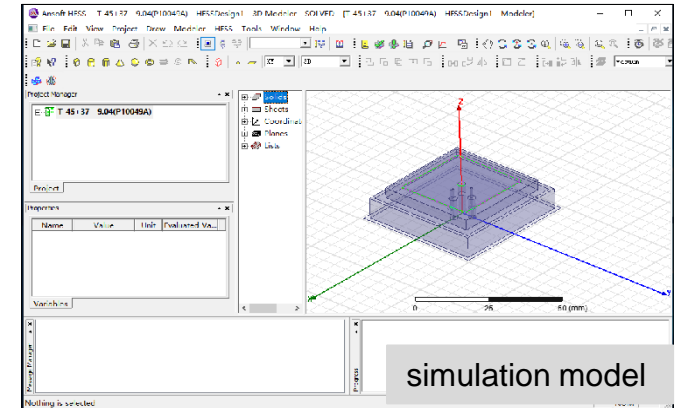
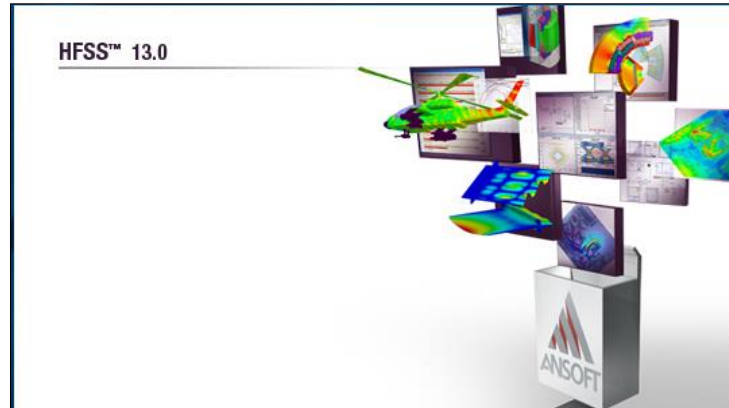
## PART 02

# R & D Capabilities

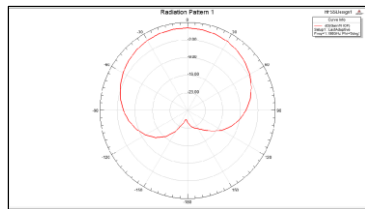


1 RF simulation & R&D development

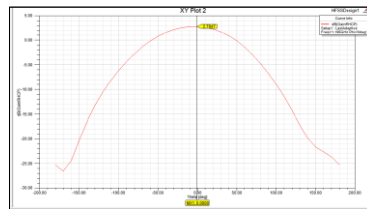
◆ Having professional RF simulation design ability, conduct RF simulation design in the early stage of project development, to ensure the effective operation of product RF design and development.



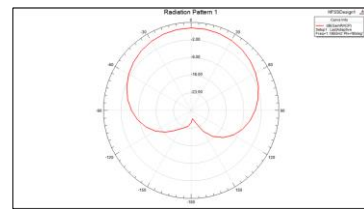
AxiaRatio



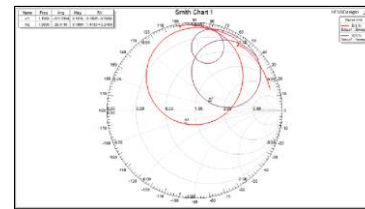
phi=0



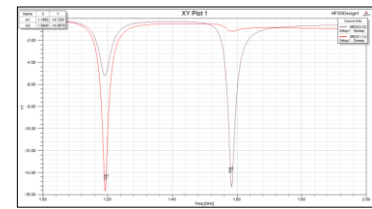
Gain



phi=90



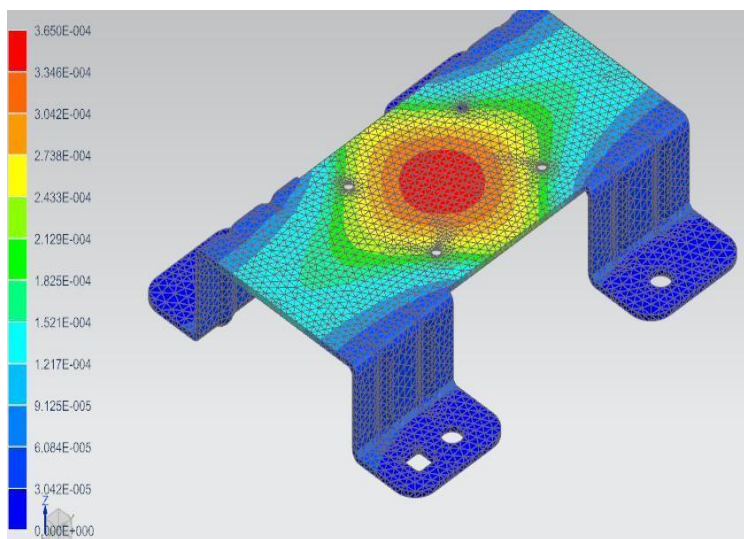
Impedance



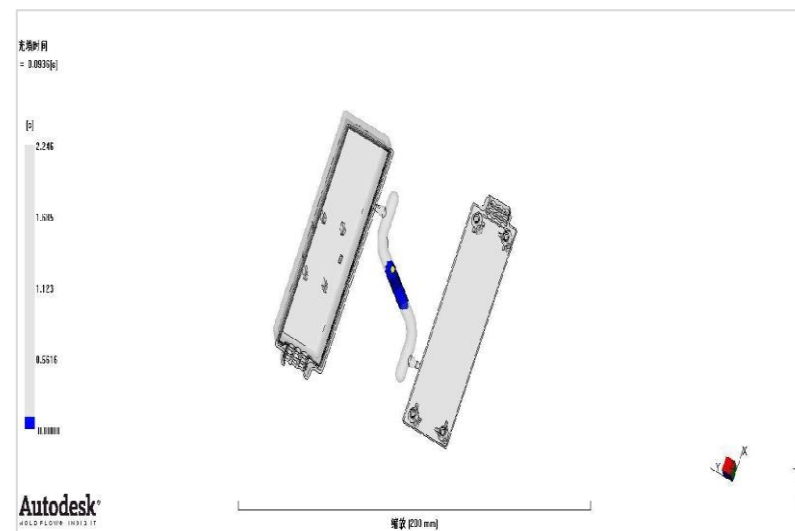
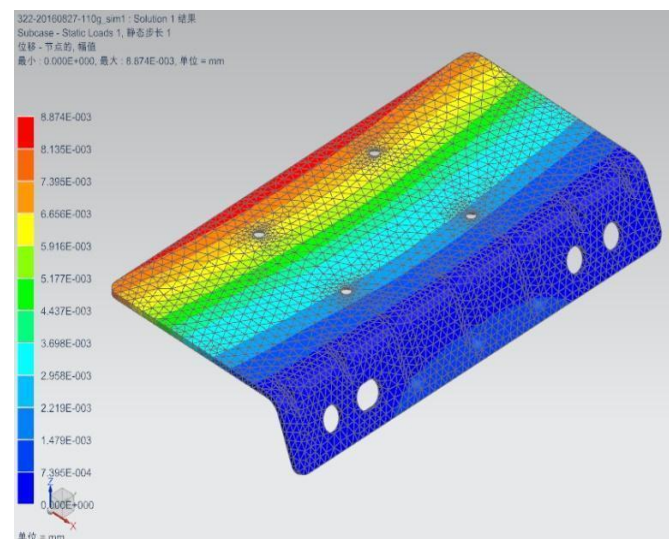
S11

2 Mechanical simulation & Mold flow analysis

Having professional mechanical simulation of structural design, mode flow analysis ability, in the early stage of project development of structural design simulation, to ensure the effective operation of antenna structural design and development.



Mechanical simulation



Mold flow analysis

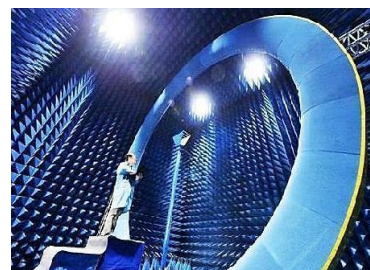
## 3 R&D test

### R&D Test

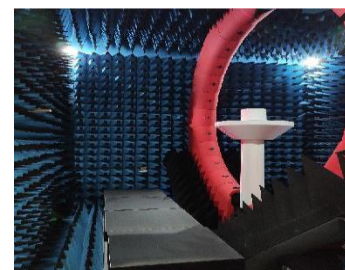
- Insertion force test machine
- Flame retardant testing machine
- ROHS testing machine
  
- Temperature and humidity test chamber
- Sermal shock test chamber
- Salt spray test chamber
- Vibration table
- Waterproof and dustproof test chamber
  
- Network analyzer
- Signal analyzer
- Star search test system
- Microwave Anechoic Chamber



Laboratory



Big-Microwave Anechoic Chamber



Small-Microwave Anechoic Chamber



RF Test system



Network analyzer



Spectrum analyzer



Rain test chamber



Temperature and humidity test chamber



Sermal shock test chamber



Dust proof test equipment



Vibration table



Salt spray test chamber



ESD

**Test Contact:** temperature resistant, waterproof, dustproof, seismic, salt spray, antistatic, ROHS, etc., gain, efficiency, direction chart, axis ratio, phase center, etc

**Test frequency range:** 10KHZ~10G

## 4 Technological Achievements

### Ministry & Provincial Special Project

National Ministry of Science and Technology SME Technology Innovation Fund Project	GPS\GSM\CDMA combined antenna module
National Ministry of Science and Technology SME Technology Innovation Fund Project	Multi-frequency  Quadrifilar Helix Omnidirectional Antennas
National High-quality Manufacturing Development Project	High-precision satellite navigation and positioning system project
The Ministry of Industry and Information Technology Academy of Information and Communications initiated the project	5G Smart Gateway Products
Major Science and Technology Project of Zhejiang Province	AI vehicle terminal based on 5G and Beidou high-precision technology
A total of 80 provincial new products in Zhejiang Province	

### Standard

- "Technical Research White Paper on 5G Intelligent Gateway for Internet of Vehicles", and formulate standards
- "Automotive Antenna Standard" Zhejiang Province formulation unit

### Patent

- 16 invention patents, another 12 invention patents are under approval; more than 60 utility model patents; 12 software copyrights

## 5 Invention Patents

Serial Number	Name	Type	Patent No./Application No.	Authorization Date
1	Selective laser melting SLM antenna manufacturing method and the manufactured antenna	Invention Patent	ZL201510397530.9	Dec.22, 2017
2	Method for producing metallized foam lightweight choke coil antenna and the resulting antenna	Invention Patent	ZL201610762722.x	Jun.30, 2021
3	A 5G communication terminal antenna	Invention Patent	ZL201910724759.7	Jan.20,2021
4	A Tri-band Miniaturized Pure Metal Pifa Antenna Containing V2X Frequency Band	Invention Patent	ZL201910724776.0	May .06, 2021
5	Antenna	Invention Patent	ZL201010263682.7	Jun.18, 2014
6	A vehicle-mounted 5G, NR Antenna	Invention Patent	ZL202011431930.4	Jun.17, 2021
7	A remote driving control system video decoding device	Invention Patent	ZL202011431990.6	May.21, 2021
8	A processing device and processing technology of an anti-multipath effect GNSS 3D Antenna Coil	Invention Patent	ZL202011595513.3	Jun.17, 2021
9	A multi-channel video splicing processing device and processing method thereof	Invention Patent	ZL202110152247.5	Aug.17, 2021
10	A miniaturized low-profile navigation combined antenna structure and assembly method thereof	Invention Patent	ZL202110152745.X	Jun .17, 2022
11	Leakage current detection circuit for ADC sampling	Invention Patent	ZL201510681315.1	Mar .27, 2018
12	An Automatic Filter Design Method Based on Tribal Algorithm	Invention Patent	ZL202111593871.5	Nov .08, 2021
13	Design of Cooperative Computing Resource Scheduling for Internet of Vehicles Based on Particle Swarm Optimization	Invention Patent	ZL202210367435.4	Nov .08, 2022
14	Indoor imaging method and device based on WiFi channel state information	Invention Patent	ZL202110129094.2	Dec .02, 2022
15	Network delay positioning error compensation method, device and electronic equipment	Invention Patent	ZL201910425384.4	Dec .06, 2022
16	Target state determination method, device, electronic device and readable storage medium	Invention Patent	ZL201911032685.7	Dec .12, 2022

## 6 Some laboratory equipments

Serial NO.	Equipment Name	asset Number	Model Specifications	Equipment Factory	Measuring range	Expanded Uncertainty/Maximum Tolerance/Accuracy Class	calibration Way	Date of last verification/calibration	Calibration cycle	Equipment Status
1	Electrodynamic Vibration Test System	MA-17-1082	DC-2200-26/SV-0505/RC-2000	Su test equipment	Frequency range: 5Hz ~ 3000Hz	/	External Calibration	Jun 27, 2023	1 year/time	Normal Use
2	High and low temperature test chamber	MA-11-049	GDS-100	Wuxi Yierda	Temperature: 25°C ~ 150°C	0.1	External Calibration	Mar .3, 2023	1 year/time	Normal Use
3	Electrostatic discharge tester	MA-14-865	EMS61000-2A	Hangzhou Yuanfang	Output voltage: 0.2 ~ 30 KV Output voltage polarity: positive, negative Discharge current rise time: 0.8 ns Discharge mode: air, contact Discharge interval: 0.05 ~ 9.99 s	/	External Calibration	Jun 27, 2023	1 year/time	Normal Use
4	High and low temperature rapid temperature change test chamber	LAB-PT-YED/KSWB - 260L-22092201	YED/KSWB - 260L	Wuxi Yierda	Temperature: -60°C ~ 150°C Humidity: 20% ~ 98%	0.1, 0.1	External Calibration	Sep 4, 2023	1 year/time	Normal Use
5	Salt spray corrosion test chamber	ASWT2021024	SCT-250	Wuxi Oswaite	Neutral Salt Spray (NSS)	0.1	External Calibration	Jun 27, 2023	1 year/time	Normal Use
6	Fully automatic insertion force testing machine	MA-18-1408	JK1801324001	Kexing Precision Instrument	Tensile force: 0 ~ 1000 N/±0.5% Test speed: 0.5 ~ 500 mm/min Maximum test space: 650 mm	0.50%	External Calibration	Mar 3, 2023	1 year/time	Normal Use
7	High and low temperature alternating damp heat test chamber	MA-13-1980	GDJS-010	Wuxi Yierda	Temperature: -40°C ~ 150°C Humidity: 30% ~ 98%	0.1, 0.1	External Calibration	Mar 3, 2023	1 year/time	Normal Use
8	Rain Test Chamber	MA-19-1717	HD-E710-6	Haida International	IPX3、IPX4、IPX5、IPX6	/	External Calibration	Hun 27, 2023	1 year/time	Normal Use
9	Dust-proof experimental device	MA-19-1792	IP-S-0500	Wuxi Oswaite	IP5X、IP6X	/	External Calibration	Mar 3, 2023	1 year/time	Normal Use

## 6 Some laboratory equipments

Serial NO.	Equipment Name	asset Number	Model Specifications	Equipment Factory	Measuring range	Expanded Uncertainty/Maximum Tolerance/Accuracy Class	calibration Way	Date of last verification/calibration	Calibration cycle	Equipment Status
10	Hatchback thermal shock test chamber	MA-19-1793	TSA—40	Wuxi Oswaite	Temperature: -40°C ~ 120°C	0.1	External Calibration	Jun 27, 2023	1 year/time	Normal Use
11	High and low temperature humidity and heat alternating test chamber	MA-19-1794	TC-PRO-150	Wuxi Oswaite	Temperature: -60°C ~ 150°C Humidity: 10% ~ 98%	0.1, 0.1	External Calibration	Jun 27, 2023	1 year/time	Normal Use
12	High and low temperature alternating damp heat test chamber	PT-YED/GDJS-290L-22062001	YED/GDJS - 290L	Wuxi Yierda	Temperature: -40°C ~ 150°C Humidity: 20% ~ 98%	0.1, 0.1	External Calibration	Jun 27, 2023	1 year/time	Normal Use
13	Multi-parameter analyzer (PH/conductivity)	CE-DZS-706F-22110712	DZS-706-F	Leici Technology		0.01	External Calibration	Jun 27, 2023	1 year/time	Normal Use
14	Flame retardant tester for automotive interior materials	MA-15-914	PX-06-003	Phoenix quality inspection equipment		/	External Calibration	Apr 14, 2023	1 year/time	Normal Use
15	spring impact hammer	MA-18-1388	05J	Guangzhou Zhilitong		/	External Calibration	Apr 14, 2023	1 year/time	Normal Use
16	ROHS tester	MA-11-545	EDX-1800B	Tianrui Instrument		/	External Calibration	Mar 3, 2023	1 year/time	Normal Use
17	Automatic Terminal Section Analyzer	MA-19-1714	FM-4D	Kunshan Femtometre		/	External Calibration	Apr 14, 2023	1 year/time	Normal Use
18	二Dimensional Imager	MA-16-982	VMS-3020	Jiaxing Red Sea Measuring Instrument		/	External Calibration	Sep 4, 2023	1 year/time	Normal Use

# PART 03

# Manufacturing



1 Two sites



**Jinchang Industrial Park in Jiaying**

Area: 20,000 m<sup>2</sup>, plant 20,000 m<sup>2</sup>, the number of employees: more than 300 people



**JinYichang 5G Beidou Industrial Park in Jiashan**

Area: 60,000 m<sup>2</sup>, plant 120,000m<sup>2</sup>, planned employees: 1,000

2 Modern manufacturing workshop and automated logistics

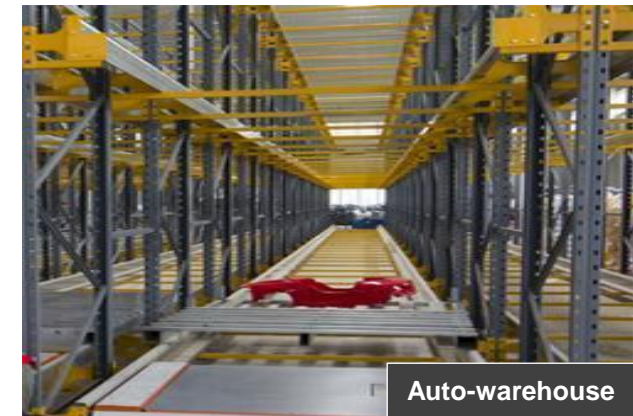


**Material code scanning approach - automated three-dimensional warehouse - RGV/AGV logistics**

**Number of lines:** 12 final assembly lines / 8 automatic production lines / 2 automatic SMT production lines

**Applicable products:** shark fin antenna, single frequency antenna, dual frequency antenna, integrated box antenna, Communication antenna, ECU products, gateway terminal, PCBA and wiring harness

**Planned production capacity:** 80k/ day



3 Automated production lines and automated equipment



Automated Production Final Assembly line



Automated SMT Production

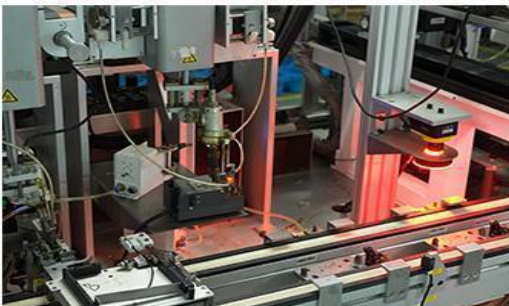


Automated Production Final Assembly line



Automated Production Final Assembly line

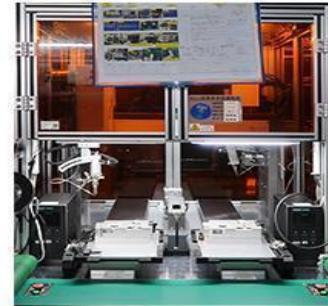
Material scanning approach - Automated warehouse -RGV/AGV logistics - Automated production



Automated Production Final Assembly line



Automatic air tightness test machine



Automatic welding machine

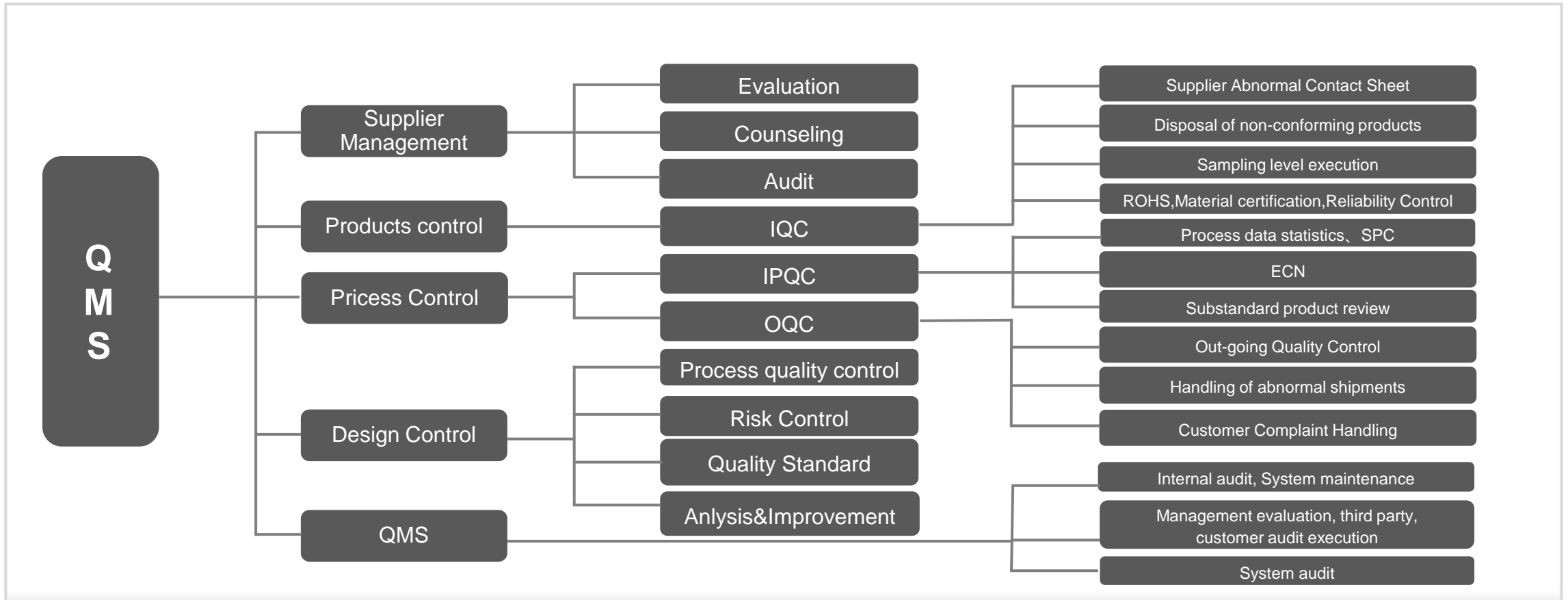


Automatic screw machine



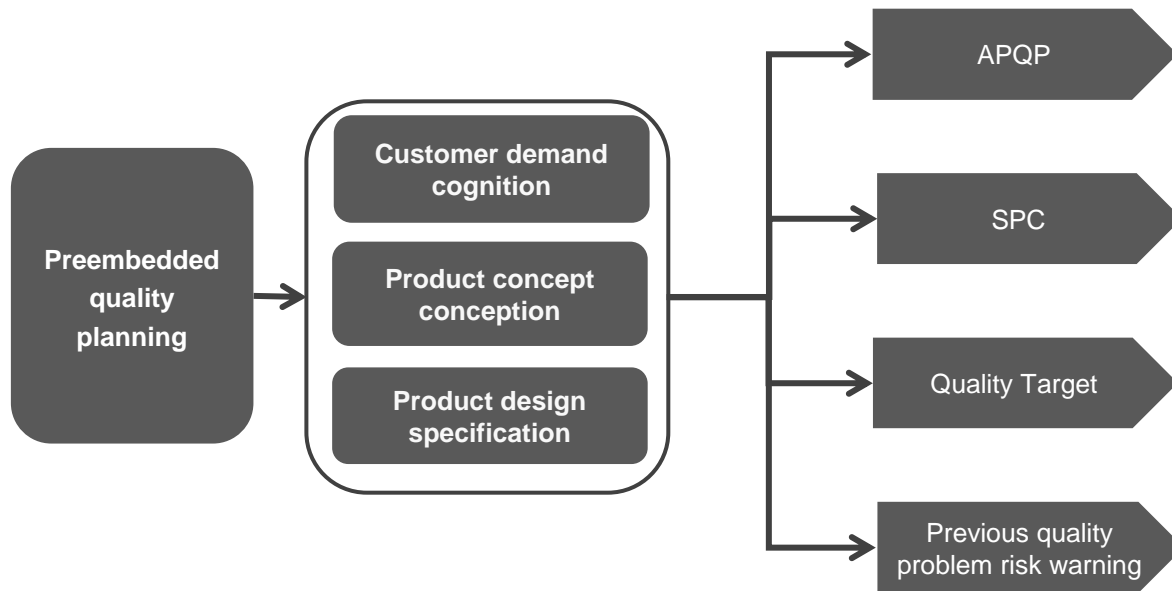
RGV/AGV Logistics

4 Quality Management System

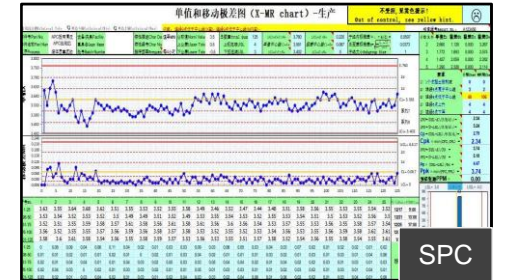


5 Pre-embedded quality planning

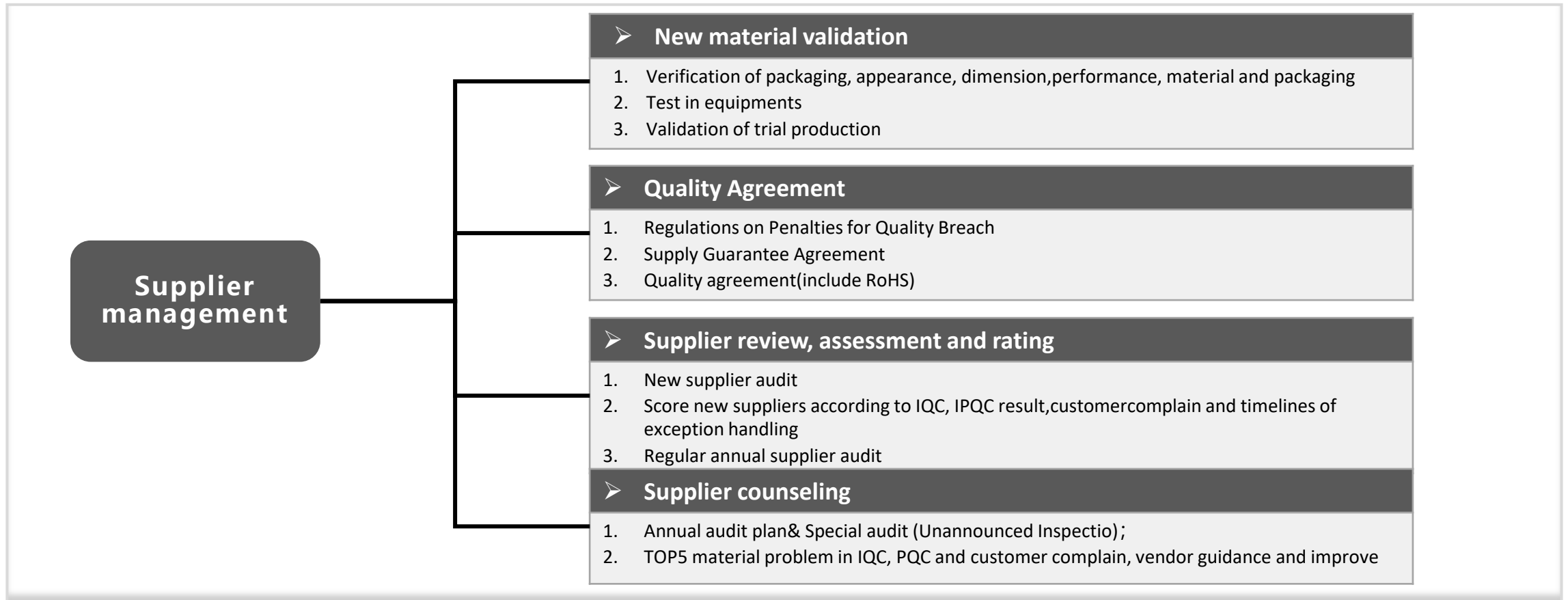
Quality planning in the early stage will be incorporated into the whole process of product design, technological process and quality control, and then related to supplier management to ensure the effectiveness of quality planning.



试制阶段-初期流动结束后		
指标名称	目标值	
样件的合格率 (包括返工)	ET 100%	PT 100%
工程能力指数 (CPK/PPK) 达成率	70%	95%
产品的模具/检具的达成率	100%	100%
初期流动结束后质量目标		
指标名称	目标值	
0公里累积故障率 PPM	0	
影响一次下线合格率	Quality Target	
售后3MIS		



6 Supplier management

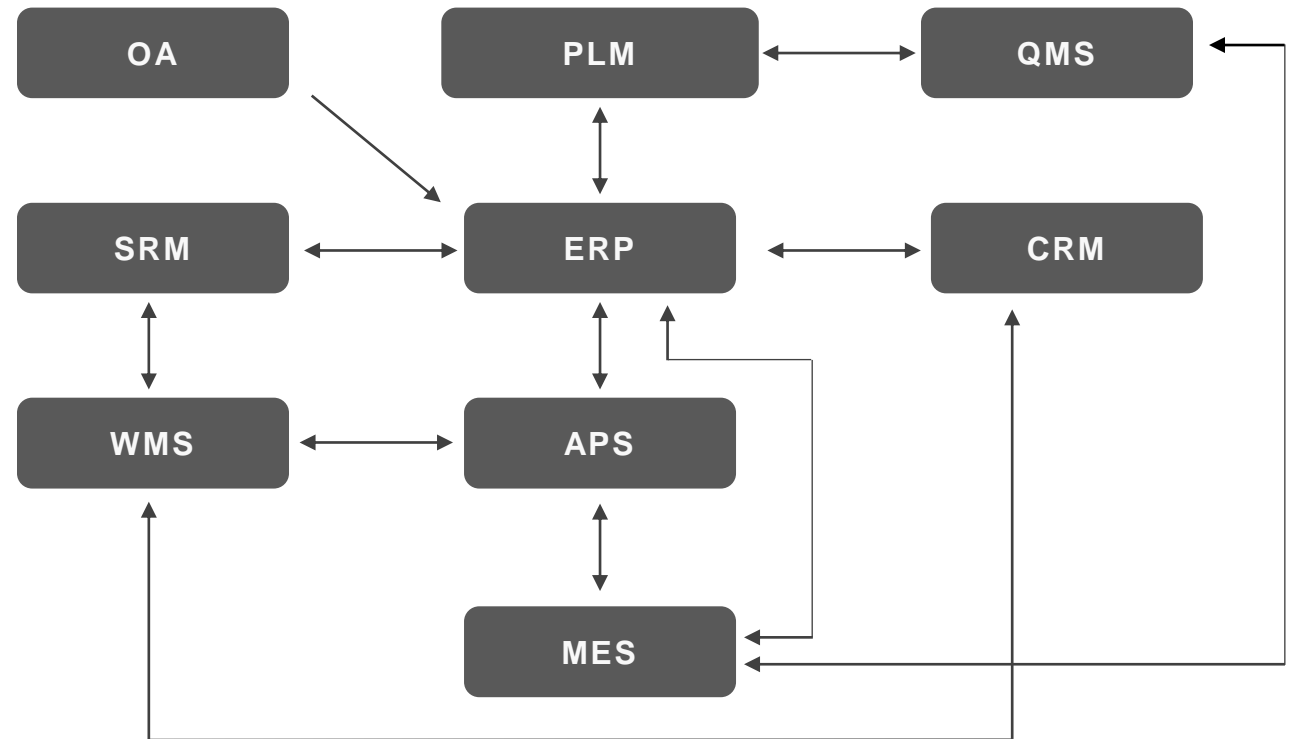


7 Digital information management



Digital Information Center

Whole-process software system management -- ERP-PLM-MES-WMS-OA software system operation



8 Digital Information Management



MES

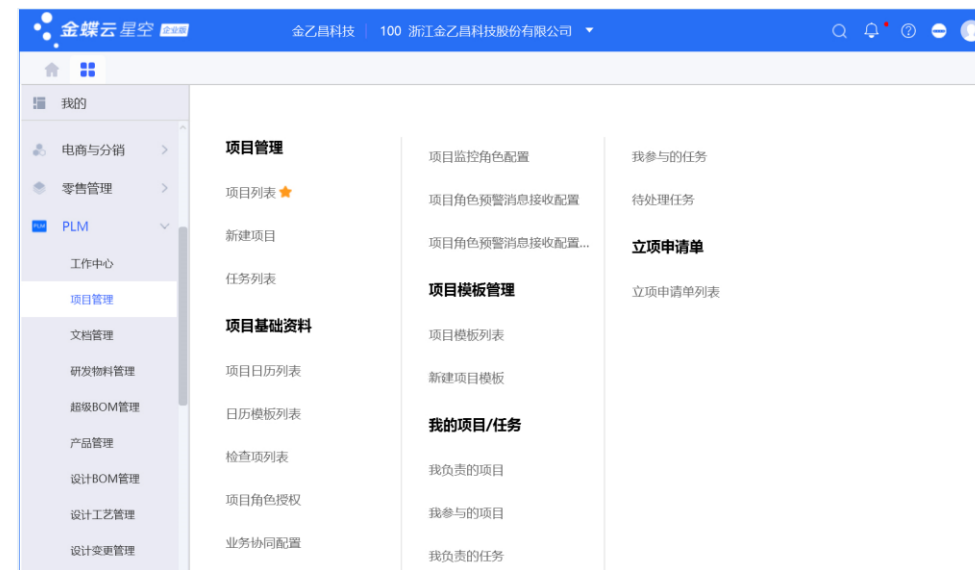


QMS

8 Digital Information Management



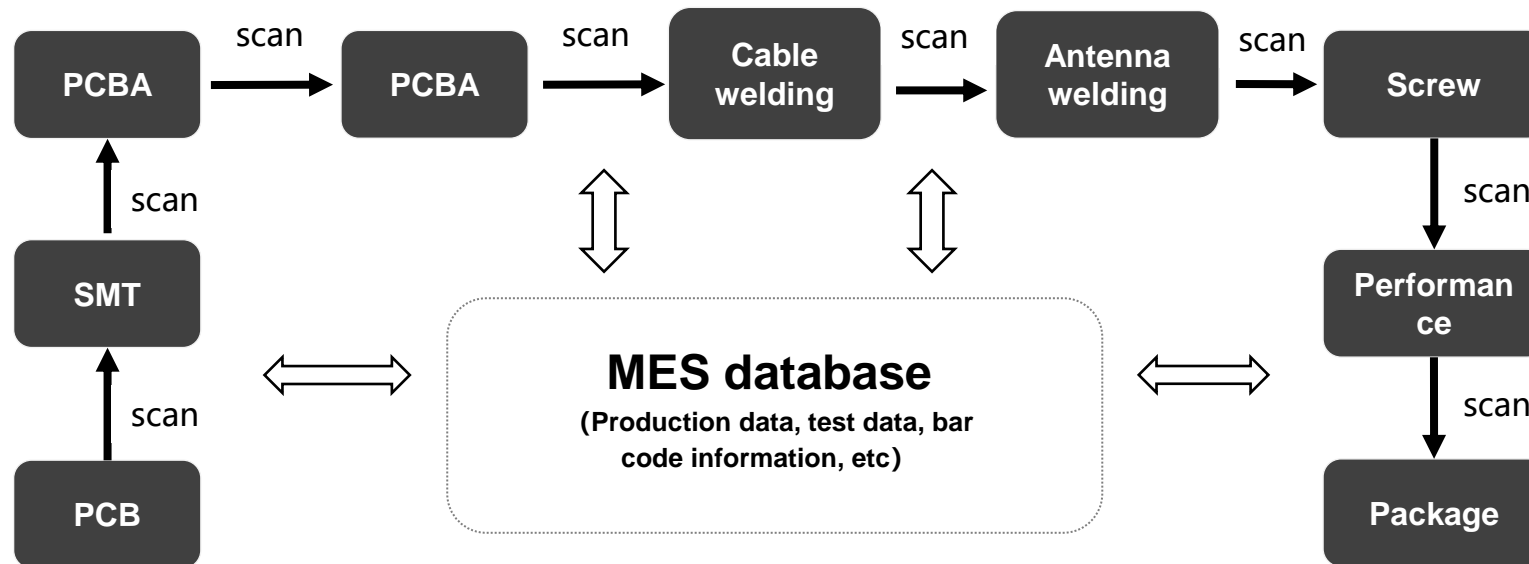
ERP



PLM

9 MES (Product implementation traceability tracking)

- ◆ Use MES system to associate production plan, production process, product quality and workshop inventory management
- ◆ Product production data, test data and bar code information are associated to achieve accurate traceability



10 Certification

Hangzhou DEKRA WIT Certification Co., Ltd  
Floor 14th, International Bypass, No. 1753,  
Jiangong Avenue,  
Shangyu District, Hangzhou, 310062 P.R. China  
杭州德凯尔认证有限公司  
杭州滨江钱江东路1753号  
总部及国际客服中心: 1 800 14 48 310052  
Tel: 电话: 0571-87711520  
Fax: 传真: 0571-87711515  
E-mail: info@dekra.com  
Date: 2018.8.28

**Confirmation letter 证明信**

To Whom It May Concern:  
至相关人士:  
Hereby we certify that Hangzhou DEKRA WIT Certification Co., Ltd. has accepted application of IATF 16949:2016+ISO9001:2015 certification for the following company:  
故证明我公司—杭州德凯尔认证有限公司已经接受了下列企业申请 IATF 16949:2016+ISO9001:2015 标准认证。

**JC Antenna Co.,Ltd**  
浙江金乙昌科技股份有限公司  
Address 地址  
Jiashan Highway 1897# Dayun Town, Jiashan County, Zhejiang Province, China -314100  
中国浙江省嘉兴嘉善大云镇道寿大道1897号-314100

**Scope 认证范围**  
Design and Manufacture of Antennas for GNSS(Global Navigation Satellite System) and Mobile Communication System  
GNSS 天线和移动通信系统天线的设计和生

Remote location 外部支持场所:  
Jiaxing Jinchang Electronic Technology Co., Ltd.  
嘉兴金昌电子科技有限公司  
Address 地址  
No. 398, Zhanye Road, Economic Development Zone, Jiaxing City, Zhejiang Province, P.R. China-314000  
中国浙江省嘉兴经济技术开发区钱江路398号-314000

Continuous improvement, Internal audit, Management review, Policy marking, Quality system management, Strategic planning, Finance, Sales, Contract review, Customer service, Logistics, Purchasing, Supplier management, Product design, Process design, Engineering, Facilities Management, Information technologies, Maintenance, Laboratory, Testing, Calibration, Human resource, Training

The onsite audit has been performed successfully and we are in process of issuing the IATF16949:2016+ISO9001:2015 certificate.  
现场审核已经完成, IATF16949:2016+ISO9001:2015 已经进入发证流程, 特此证明!

With best regards,  
敬启者:  
HANGZHOU DEKRA WIT CERTIFICATION CO., LTD  
杭州德凯尔认证有限公司

Hangzhou DEKRA WIT Certification Co., Ltd  
Floor 14th, International Bypass, No. 1753,  
Jiangong Avenue, Shangyu District, Hangzhou, 310062 P.R. China  
Tel: +86 571 8771 1520 Fax: +86 571 8771 1515  
E-mail: info@dekra.com

杭州德凯尔认证有限公司  
杭州滨江钱江东路1753号14楼  
Tel: +86 571 8771 1520 Fax: +86 571 8771 1515  
E-mail: info@dekra.com

DEKRA Offices in Greater China  
Hangzhou, Shanghai, Beijing, Nanjing, Shenzhen,  
Hunan, Guangzhou, Shenzhen, Hongkong  
http://www.dekra.com  
http://www.dekra.com

IATF16949

**环境管理体系认证证书**

证书编号: 19014SE1800905  
统一社会信用代码/组织机构代码: 913304217399101848

证明:  
**浙江金乙昌科技股份有限公司**  
环境管理体系符合: GB/T24001-2016 Idt: ISO14001:2015  
证书覆盖范围: 电子产品(天线)的销售及相关环境管理活动

注册地址: 浙江省嘉兴市嘉善大云镇道寿大道1897号  
经营地址: 浙江省嘉兴市南湖区域南湖街道钱江路398号4层

首次发证日期: 2018年09月27日  
本次发证日期: 2018年09月27日  
证书有效期至: 2021年09月26日

IAF CNAS 中国认可 国际互认 管理体系 认证证书 证书专用章  
北京新纪源认证有限公司  
地址: 北京市朝阳区南湖东园122楼11层北区1201(邮编100102)

ISO14001

**SGS** SGS-CSTC Standards Technical Services Co., Ltd.  
Dongchen Branch

RF Exposure Evaluation Report

Address of Manufacturer: 浙江金乙昌科技股份有限公司  
Address of Client: 浙江金乙昌科技股份有限公司

SGS

ISO-9001

**证书**

ISO 9001:2015

浙江金乙昌科技股份有限公司  
地址: 浙江省嘉兴市嘉善大云镇道寿大道1897号

北京新纪源认证有限公司  
地址: 北京市朝阳区南湖东园122楼11层北区1201(邮编100102)

ISO-9001

**ROHS**

TEST REPORT

Product: 无线通信设备

ROHS

**REACH**

TEST REPORT

Product: 无线通信设备

REACH

**CE-TUV**

CERTIFICATE of Conformity

EC Council Directive 89/336/EEC  
as last amended by EC Directive 2002/95/EC  
Electromagnetic Compatibility

Registration No.: AE 50068108 0901  
Report No.: 1901480 001

CE

**FCC-ECMG**

VERIFICATION OF CONFORMITY

According to FCC Part 15

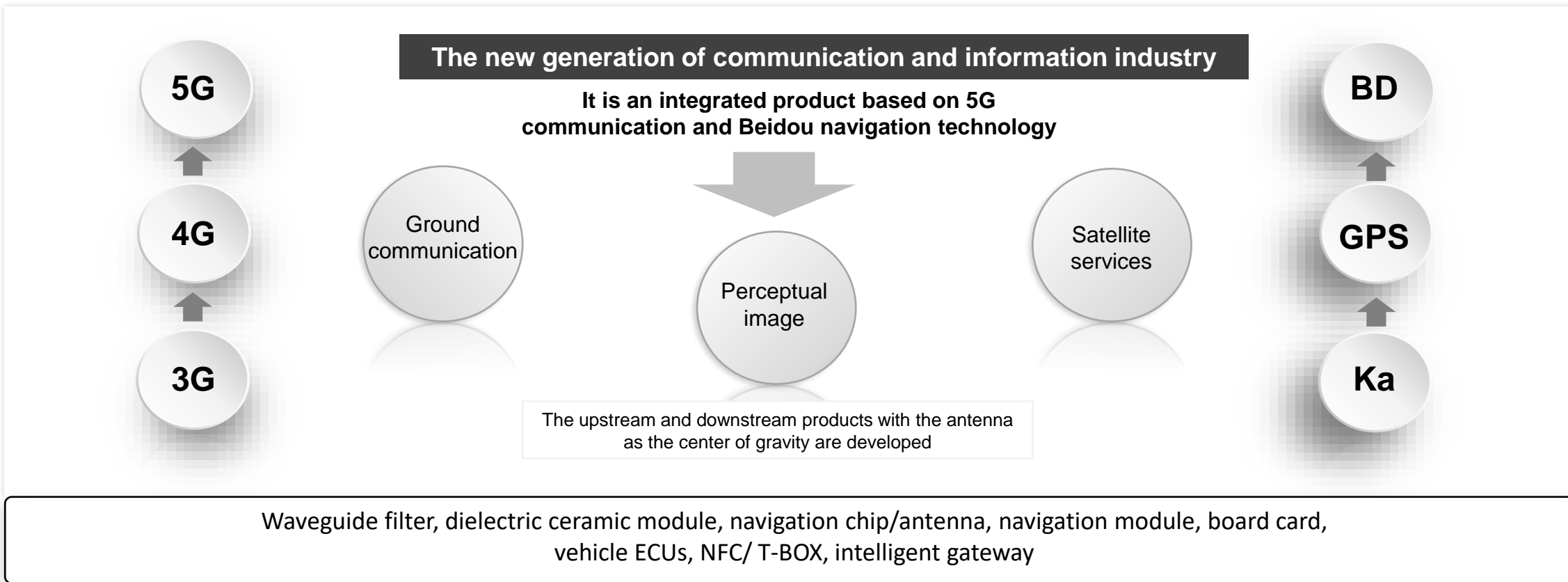
ECMG

## PART 04

# Product Introduction



1 Industrial direction and product categories



## 2 Vehicle external antenna



### Sharkfin Antenna

Multi-function integration according to demand, including: 5G, V2X, radio, WiFi, GNSS, BLE, etc



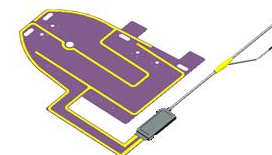
### Spoiler antenna

Can be arranged in the spoiler according to the requirements of multi-function integration, including: 5G, V2X, radio, WiFi, GNSS, BLE, etc



### Pole radio antenna

AM/FM/DAB Function to be choosed



### Rearview mirror radio antenna

AM/FM/DAB Function to be choosed

## 3 Vehicle antenna and accessories



### Pigtail, Connectors

Body coaxial harness of all types and models



### PCB antenna and bracket antenna for navigation host /TBOX

Generally LTE, WiFi, BT functions



### Radio glass antenna amplifier, filter

AM/FM/DAB to be choiced



### Built-in forward V2X antenna

The decoration cover above the rearview mirror is arranged inside the installation



### Built-in control box antenna

Multi-function integration according to demand, including: 5G, WiFi, GNSS, BLE, etc

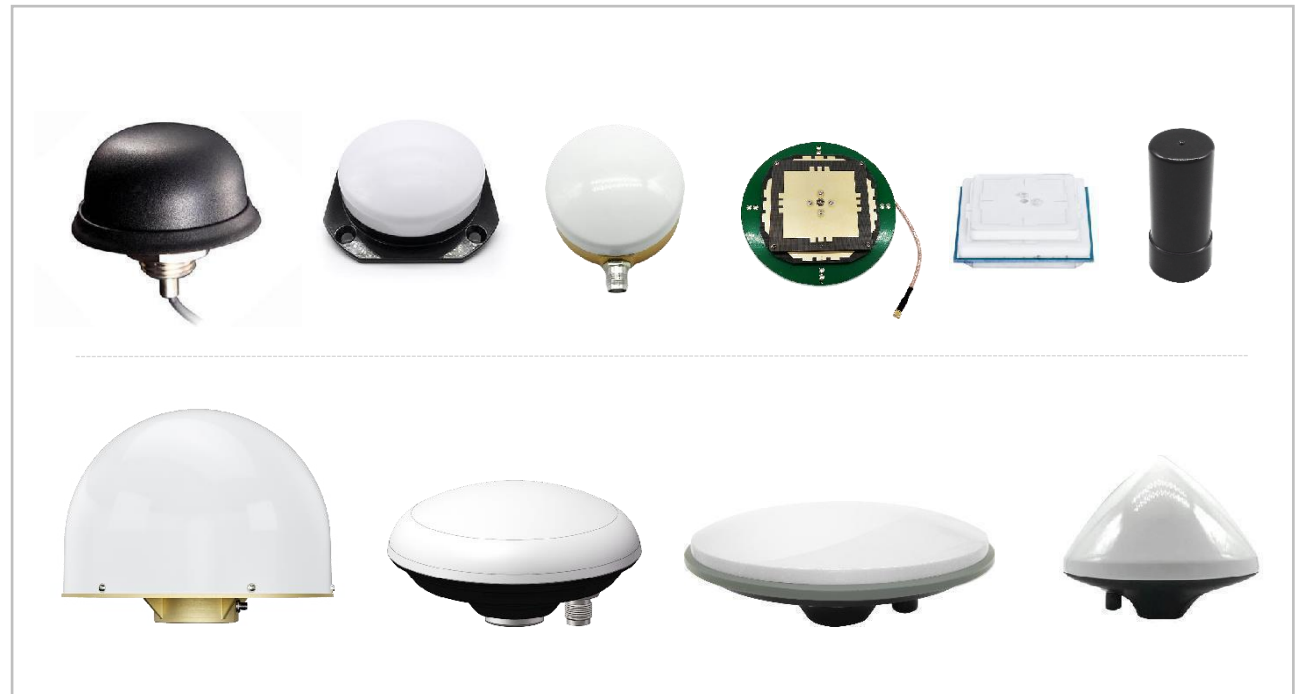


### Built-in coat stand box antenna

Multi-function integration according to demand, including: 5G, WiFi, GNSS, BLE, etc

4 High precision surveying antenna & aerospace antenna

It is a centimeter and millimeter GNSS antenna used in high-precision navigation, engineering monitoring, equipment site monitoring, surveying and mapping, intelligent agricultural machinery, unmanned aerial vehicle, Beidou base station and other industries



5 Beidou High precision choke coil antenna (2D/3D)

Applied to Beidou foundation strengthening station, surveying and mapping base station, to achieve millimeter-level positioning accuracy

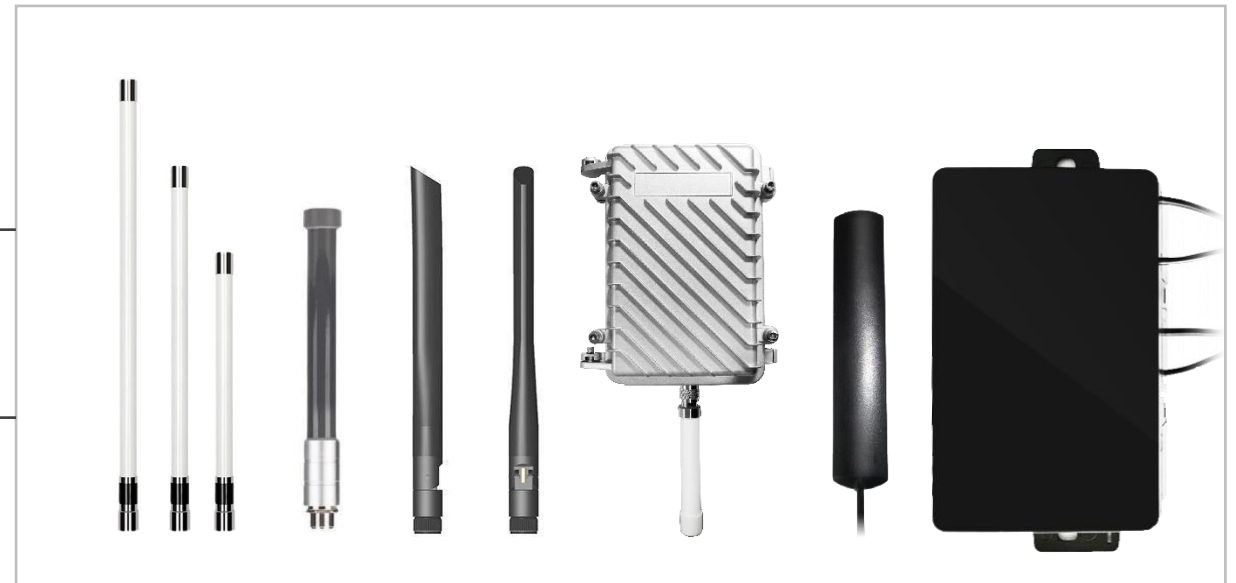
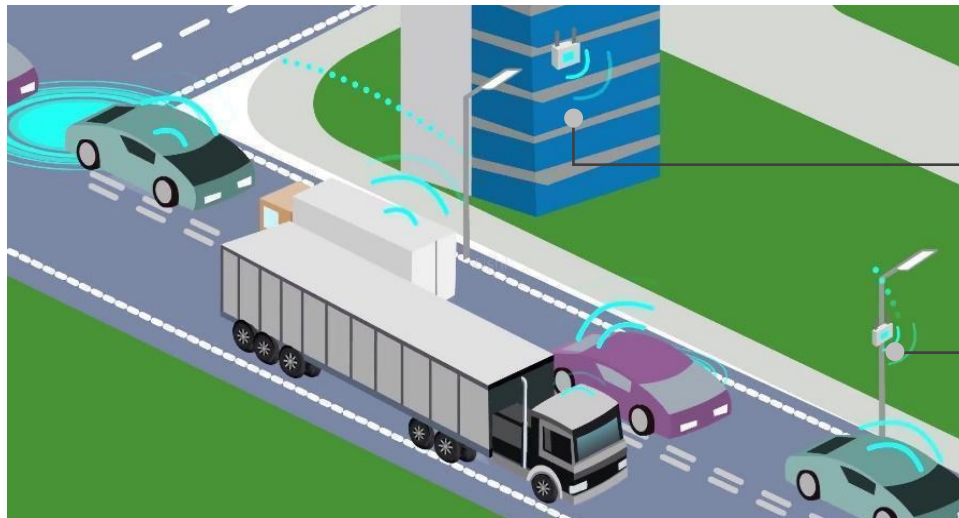


Frequency

- GPS L1/L2/L5
- GLONASS G1/G2
- COMPASS B1/B2/B3
- Galileo E1/E2/E5a/E5b/E6

6 RSU & OBU antenna

RSU antenna and OBU antenna used in intelligent transportation, intelligent gateway, intelligent assistance and other industries



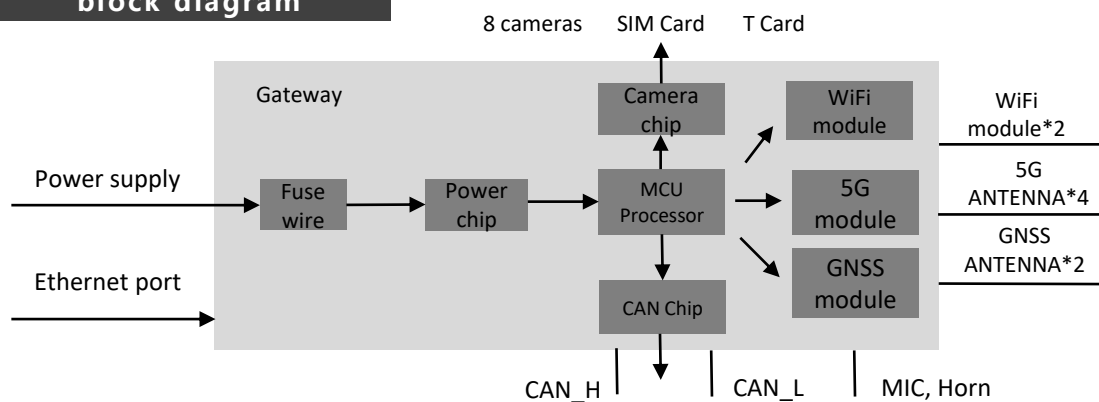
AI Intelligent Gateway IPG Indoor positioning gateway

AI intelligent gateway



1. 5G network communication
2. Multi-channel camera Video Acquisition (8-channel 720P)
3. Streaming media service
4. CAN communication
5. GNSS location service
6. Router (Wi-Fi hotspot and Ethernet)
7. Ethernet transmission
8. Sleep and remote wake up

Hardware design block diagram

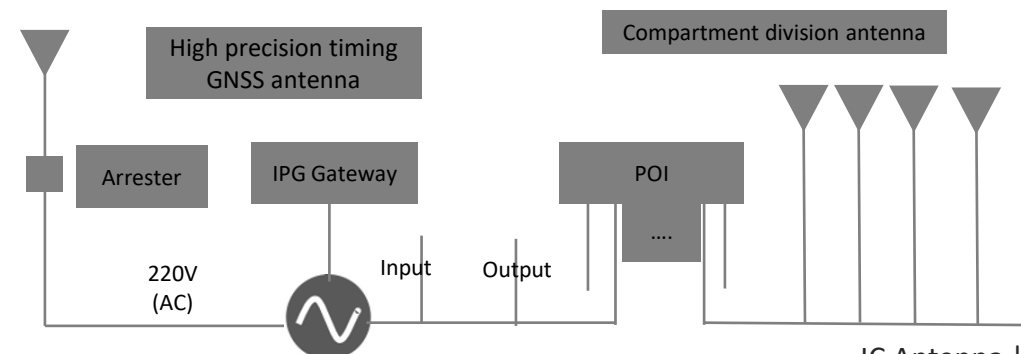


IPG Indoor location gateway



1. Working frequency band: 1558MHz~1578MHz;
2. Gain (Max) : 100dB±2dB;
3. Gain (Min) : 37dB±2dB;
4. Power supply: 220V (AC);
5. Power consumption: 12W
6. It is suitable for all buildings that shield or conceal GNSS signals due to obstacles, especially for underground parking lots with room subsystem

Installation diagram



8 Intelligent navigation, communication, indoor positioning, intelligent agricultural machinery, intelligent detection, intelligent mining area, intelligent transportation and other programs and projects

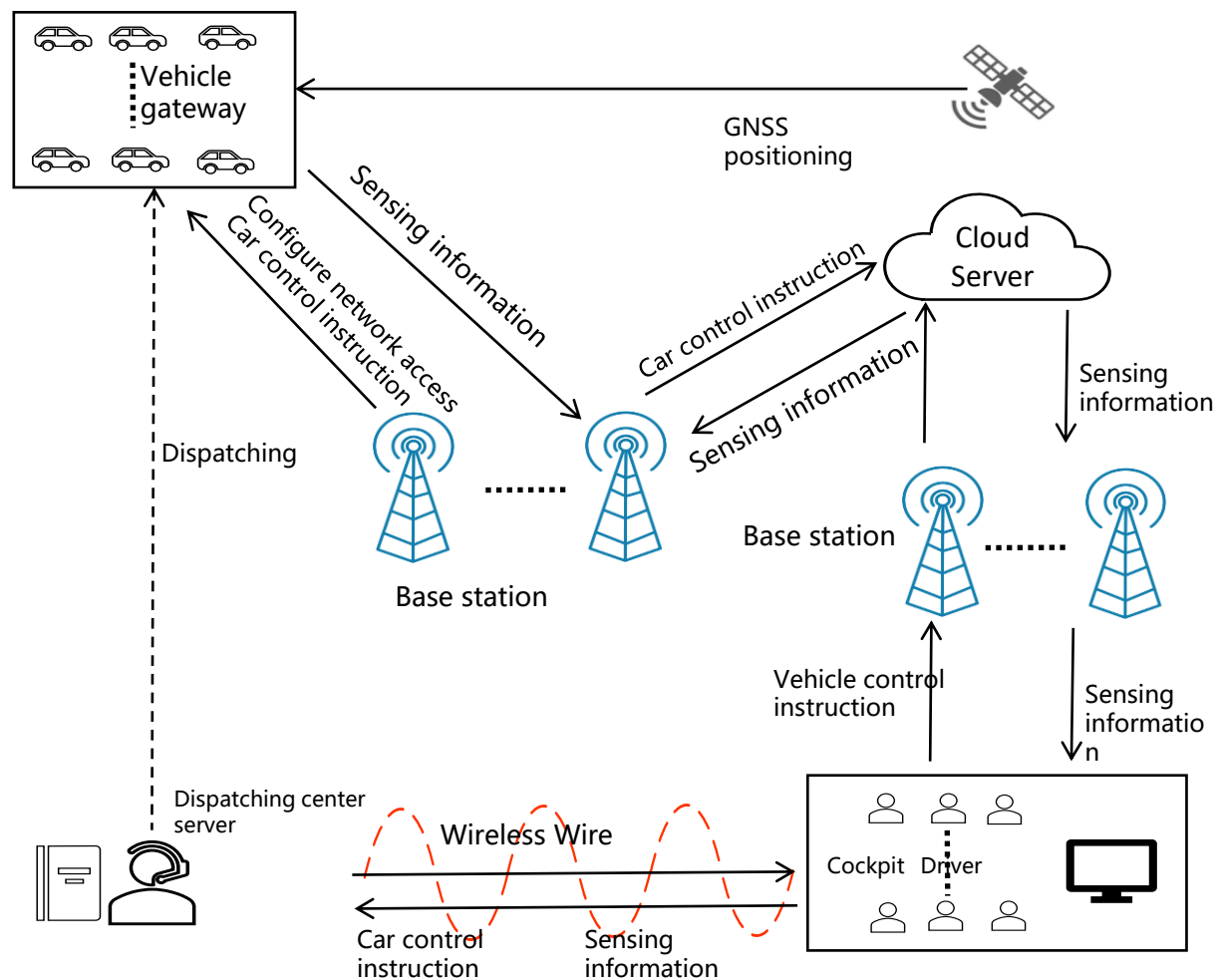


Antenna, terminal, board card, module, RTK differential account, harness, connector, reference station

9 5G Remote System



Remote drive cabin



### AI Intelligent Gateway IPG Indoor positioning gateway

- ◆ Vehicle gateway, ECU, T-box. with customized requirement development capability, with massive product experience.



Smart dispatching system



V1.0



V2.0



V3.0



V4.0



V5.0

GPS

Cellular Data

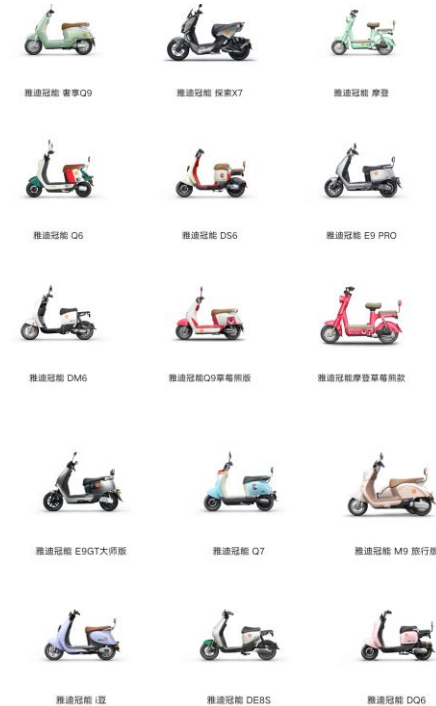
Bicycle data

Battery

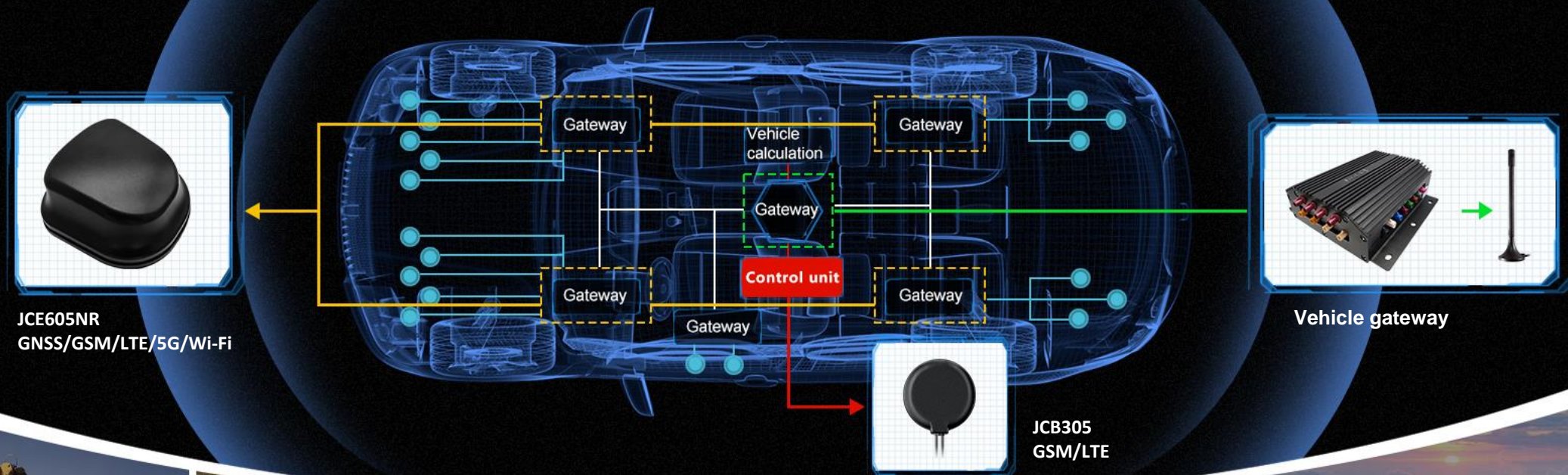
Bicycle data



ECU in electric bicycle



5G remote driving system



Engineering vehicles



Mining vehicles



Passenger vehicles



Logistics vehicles

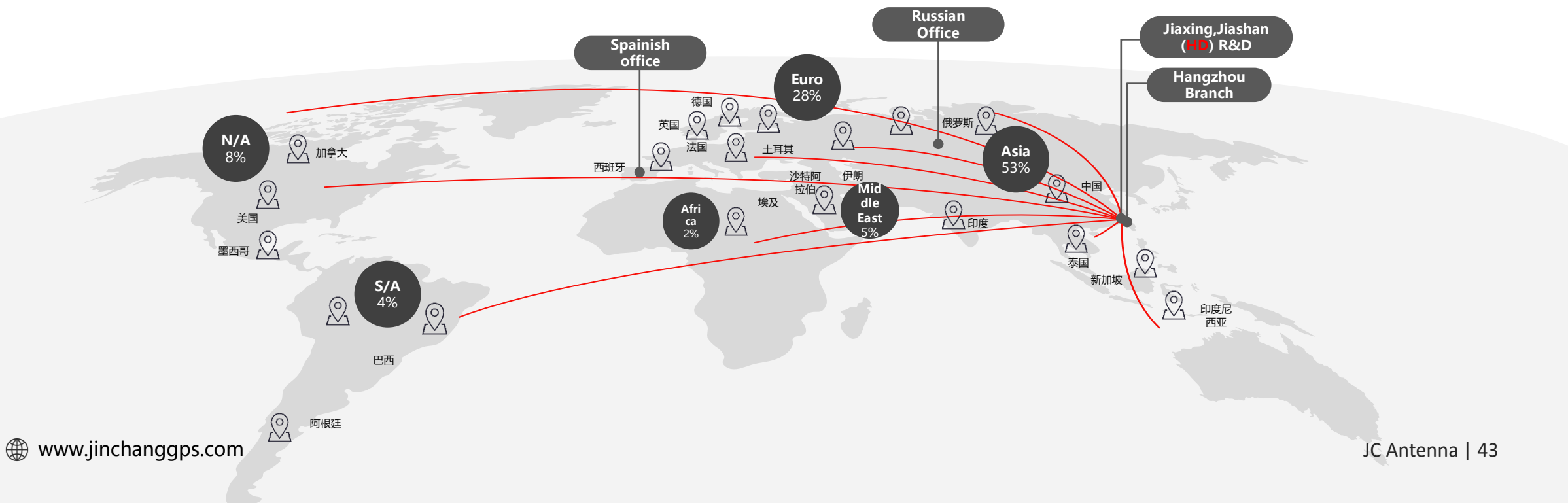
## PART 05

# Market & Applications



## 1 Global Market

- The market covers more than 190 countries in the world, more than 8000 contact customers, more than 2000 interactive customers, more than 800 customers in the year of transaction
- Sales team location: Jiashan (headquarters), Hangzhou Branch, Jiaxing branch, Spain office, Russia office



2 Cooperation



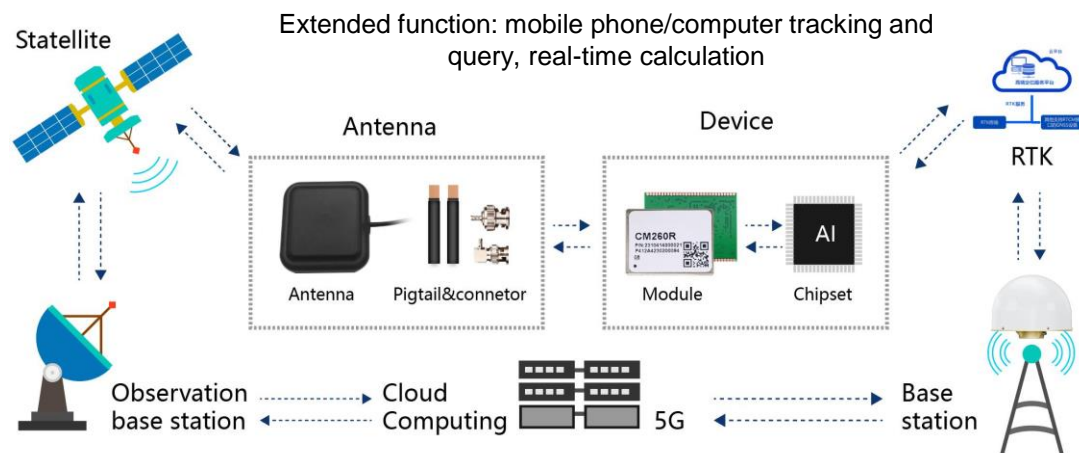
## 3 Single frequency RTK product solution

Frequency: B1/L1/G1 Accuracy: 50-80cm

### Application

- China Unicom 5G positioning and orientation
- High precision vehicle positioning
- Intelligent central control of two wheels
- Intelligent transportation
- Power inspection
- Shared Mobility

### Solution



Scooter



Precision logistics



Power Inspection



Electromobile



China Unicom 5G

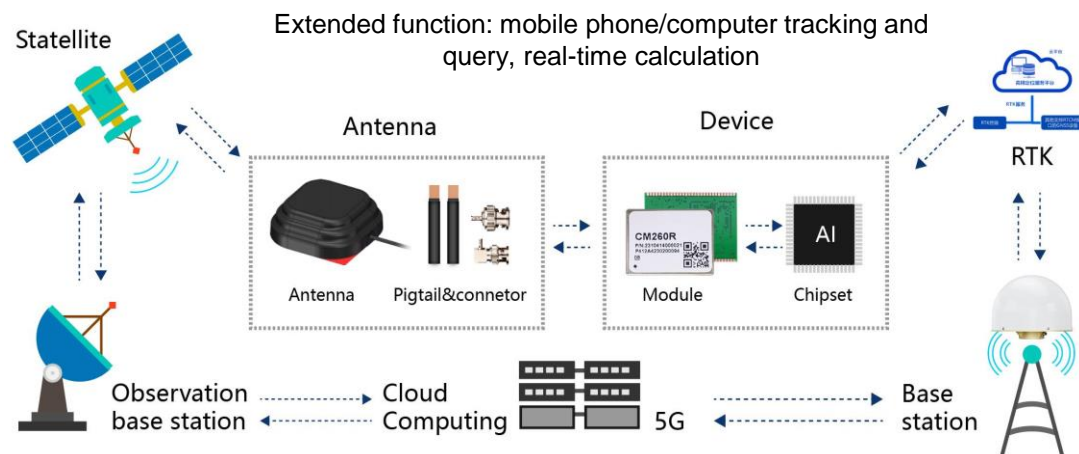
## 4 Combo RTK

Frequency: L1/L2 or L1/L5 Accuracy: 10-20cm

### Application

- airport shuttle bus
- Dongfeng auto
- Smart lawn mower
- Industrial robot
- Modern agriculture
- Smart transportation

### Solution



Tractors



Hay Mower



Shuttlebus



Robot



Smart Farm

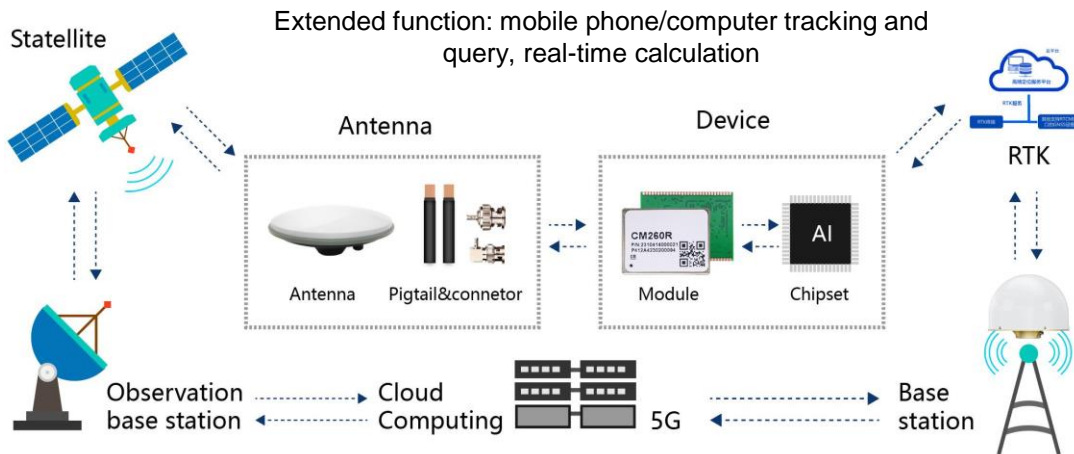
## 5 Multi frequency RTK

Frequency: L1/L2/B1/B2/GL1/GL2 Accuracy: 5-10cm

### Application

- Inland and offshore shipping
- Landslide monitor
- Urban terrain prospecting
- Telecom CORD base station
- Intelligent Drive
- surveying and mapping

### Solution



UAV



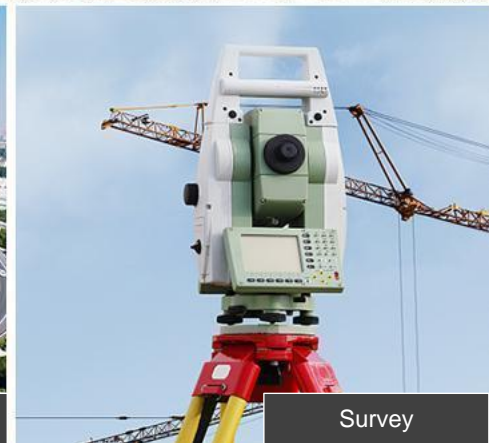
Shipping dredging



Ground disaster monitoring



Smart drive



Survey

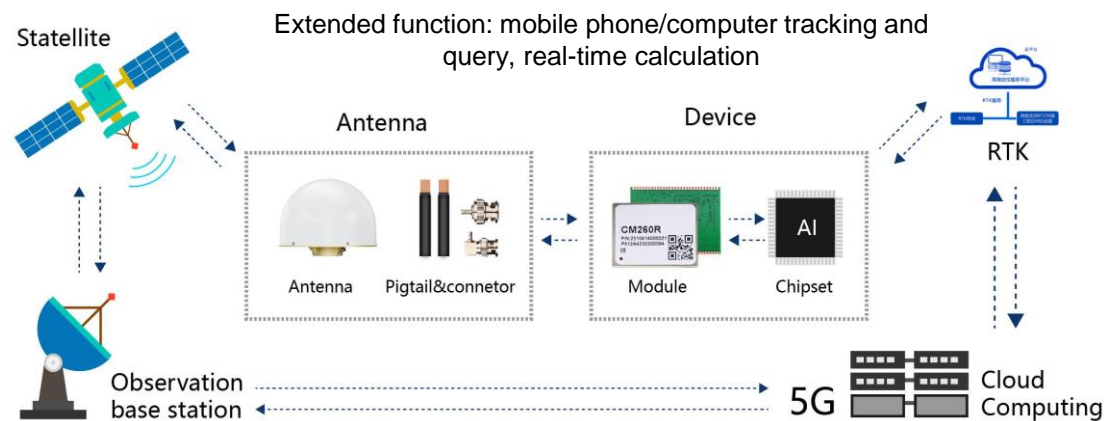
## 6 Full band RTK

Frequency: full band Accuracy: <5cm

### Application

- Mobile/Unicom/Telecom CORS station
- Bridge/viaduct/reservoir deformation monitoring
- Ground disaster monitoring
- Smart City

### Solution



## 7 Vehicle



Project	Content
Brand	Leapmotor
Seris	T03、C11、C01
Products	Sharkfin antenna Q-JCB082



Project	Content
Brand	Dongfeng
Seris	T5EVO、T5、SEV50
Products	Sharkfin antenna Q-JCF078-1



Project	Content
Brand	Beijing Vehicle
Seris	B40、B80
Products	JCB305FM



Project	Content
Brand	Jlanghuai
Seris	M4、S1、S931、IS4
Products	Sharkfin antenna Q-JCB080F

## 8 More



Cross-border logistics transportation project



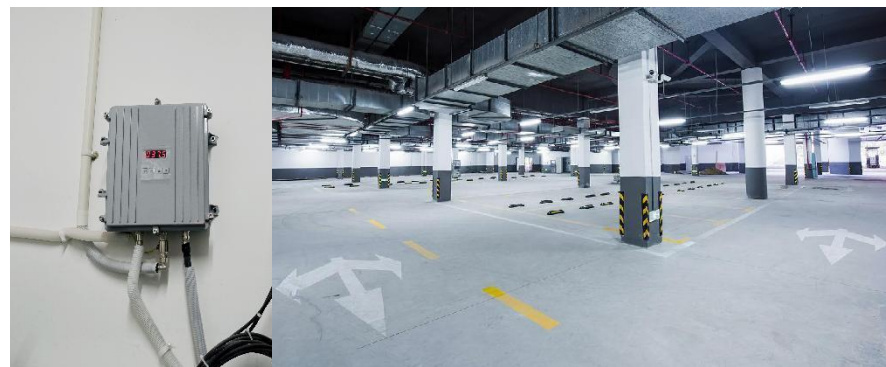
Tianjin Port West smart port project



The first L4 unmanned vehicle in China -- Dongfeng sharin-VAN



The largest 5G+ Beidou CORS station in China -- China Mobile Project



Xiongan New Area underground parking lot navigation IPG gateway project

JC Antenna



# SPECIALIZED AND IN THE LEAD

Zhejiang JC ANTENNA CO., LTD.

