

# Company Profile



Advanced Connection Technology Ltd

ACTT



# CONTENTS

1

About us

2

Design & product application

3

Quality & Manufacturing

4

Corporate culture



## About us

Advanced Connection Technology Ltd. is located in Shenzhen, China. CACT is a company which mainly produces various types of automotive PCBA modules, automotive wiring harnesses and peripheral products of automotive connector.

CACT is a national high-tech enterprise integrating product design, development, manufacturing and processing. CACT adheres to customer demand-oriented, continuous innovation and quick response, committed to providing customers with high-quality and efficient products and services on a global scale.



1. Factory was founded in 2000
2. Floor space :7267 m<sup>2</sup>
3. Total number of employees : 300
4. production line :  
Modules 14 ,  
Automotive wiring harnesses 8  
Connectors15, medical products 1
- 5.Monthly capacity :
  - 5.1. Module ( PCBA ) : 2KK/M
  - 5.2. Automotive wiring harnesses : 1KK/M
  - 5.3. Connector : 5KK/M
  - 5.4. metal mold : 12sets/M
  - 5.5. Plastic mold : 10sets/M
- 6.Main products :  
USB modules / automotive wiring harnesses / automotive connector etc.
7. Product sales : Twenty-four million dollars



# CACT History

2000----Established the factory

2003----Passed ISO 9001(2000 version) Qualification Certification

2004----Passed ISO 14001 Qualification Certification

2007----Passed TS 16949:2002 Qualification Certification

2007----Won the automotive client: Casco

2010----Won the automotive client: TECVOX

2011----Won the automotive client: Chrysler/Fiat/GM

2012----Won the automotive client: Harman

2015----Company listing

2016----Won automotive client: GAC Trumpchi

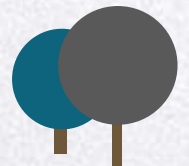
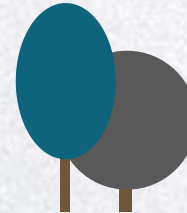
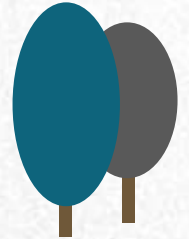
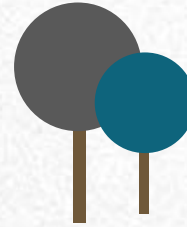
2016----Passed IATF16949:2016及ISO13485:2016 Qualification Certification

2017----Won the honor of "State High-tech Enterprise"

2018----Won the automotive client: GAC New Energy

2019----Passed AS9100 : 2016 Qualification Certification

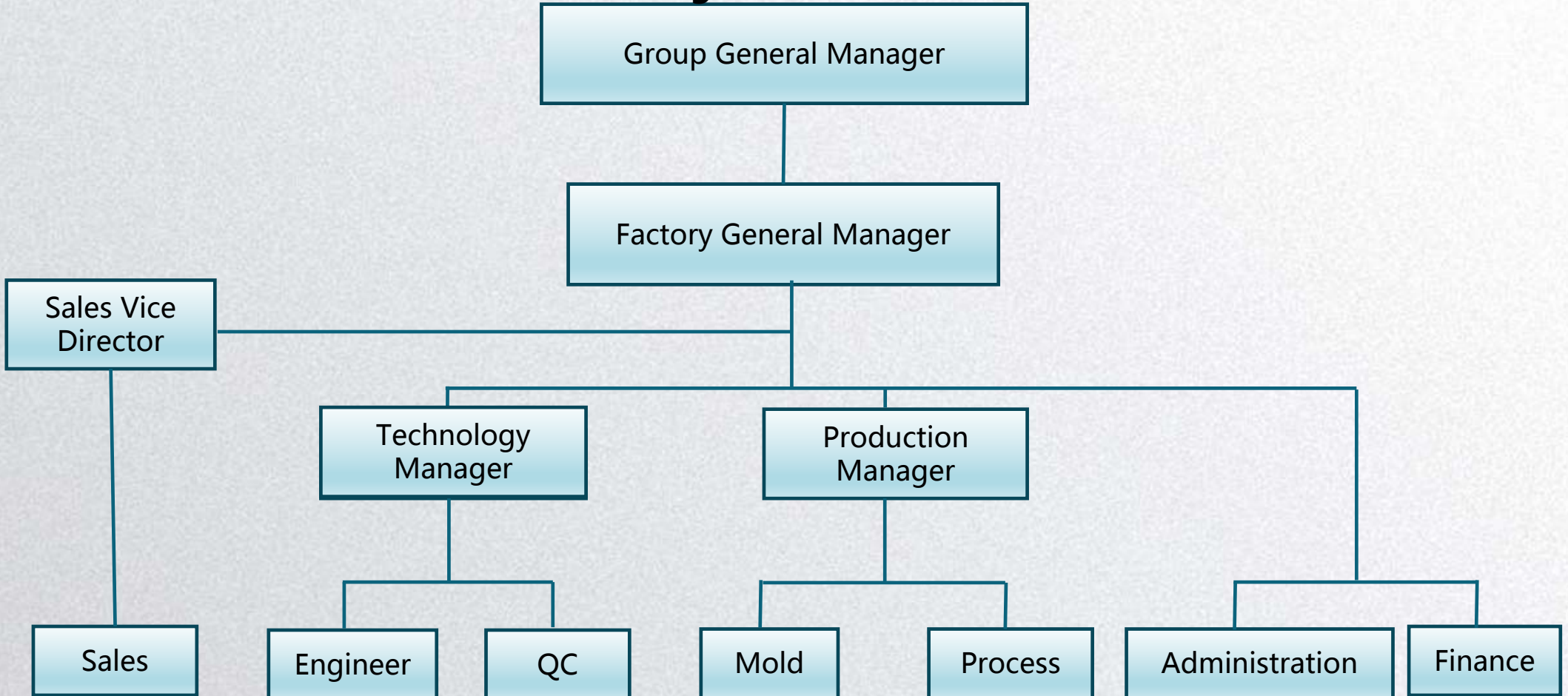
2022----Won automotive client: BAIC





# Organization Chart

## Advanced Connection Technology Inc. Management Structure





# Marketing network



**Customer - oriented**

**Our products are exported to Southeast Asia, Europe, America, etc.**



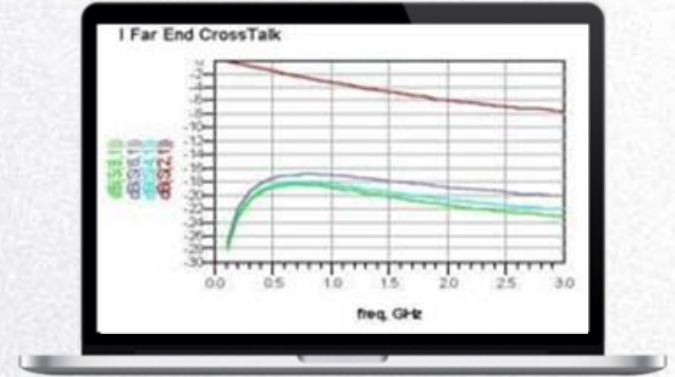
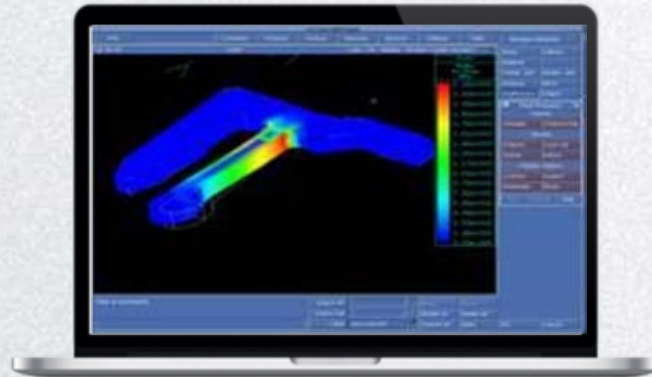
# Automotive customers

CHRYSLER	MASERATI	广汽传祺	广汽埃安	蔚来
				
TECVOX	BMW	ALFA ROMEO	CASCO	法雷奥
				
中国一汽	HARMAN	小鹏	Jabil	FIAT
				



# Team strength

- 1、 Professional research and development capability
- 2、 Professional development software:AutoCad, Solidworks, Pro-E
- 3、 Advanced simulation software:Moldflow, MSC.AFEA, ANSYS



International professional design  
Mold design & manufacturing ability

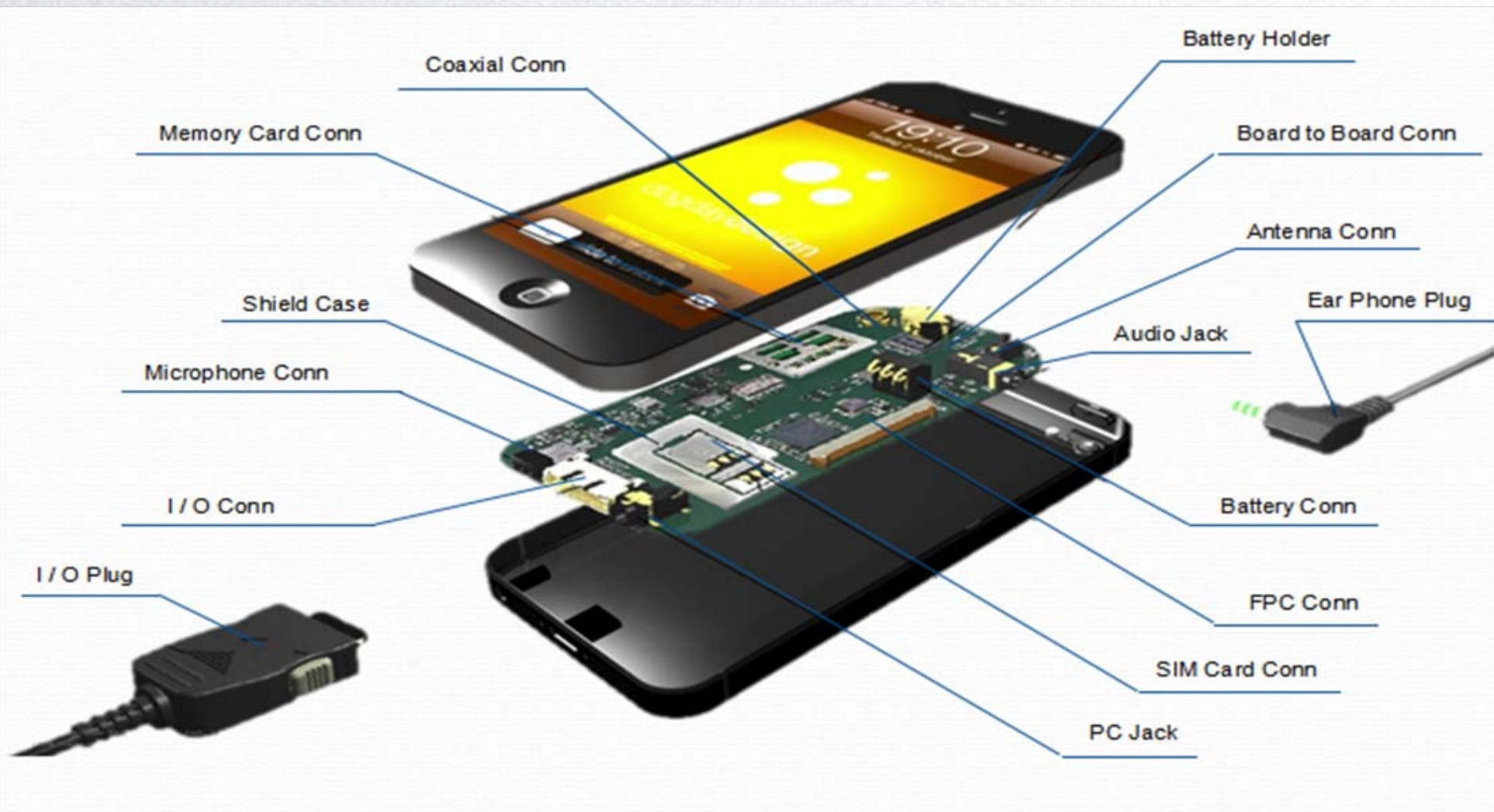
customize products capability  
Automated design capability

High precision machining equipment  
Production flexibility



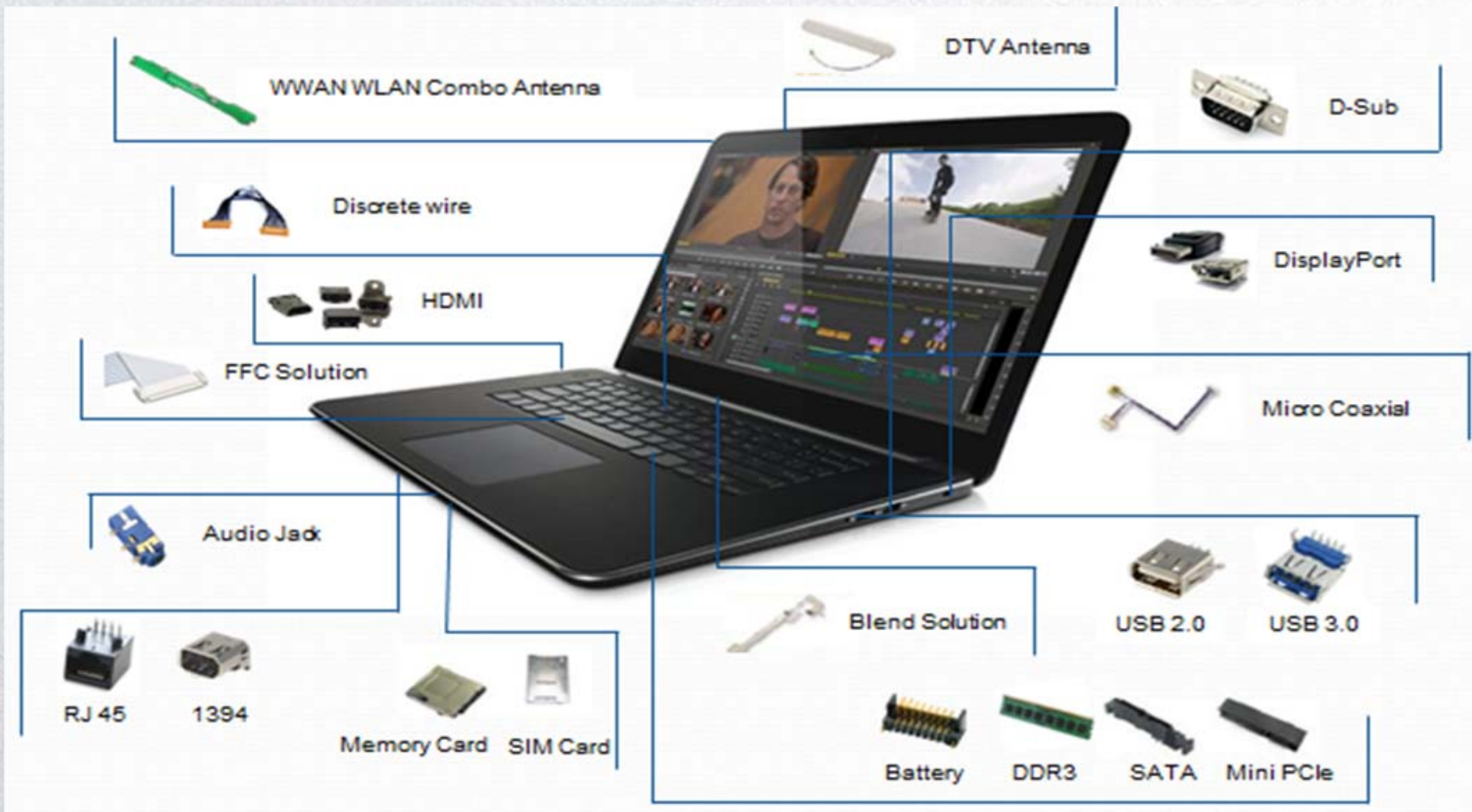


# Products on Mobile phone





# Products on Notebook





# Products on automobiles

1. Entertainment system wiring harness and modules
2. Communication system wiring harness
3. Navigation wiring harness
4. Vehicle information modules
5. Second generation vehicle-mounted diagnostic system



# Products Application : PCBA modules

**GAC GS4**



**GAC GA8&GS3POWER&GS5&GS8/  
EMPOW**



# Products Application : PCBA modules

## GAC M6/M8



## AION S/AION V/AION Y/AION LX



# Products Application : PCBA modules

## M161 CUU Maserati Levante S



## Alfa Romeo Giulietta



# Products Application : PCBA modules

## ZD – Dodge Viper



## DS – Dodge Ram



# Products Application : PCBA modules

**WK CUASD– Jeep Grand Cherokee**



**WD CUASD – Dodge Durango**





# Products Application : PCBA modules

## RT CUU – Jeep



## 330 CUA–Fiat





# Products Application : PCBA modules

Function	Carplay3.0+5V/2.4A+SD card	5V/2.4A+5V/3A Charger	5V/3A Charger
Picture			
Function	5V/2.4A+PD(9V/2A) Charger	PD(60W max)Charger	PD Charger +Data transmission
Picture			



# Products Application: Automotive wiring harness

## Vehicle-mounted USB/Mini USB Cable



Chrysler DS Uscar cable



Chrysler DS Uscar cable



GM USB cable

## HDMI cable



Chrysler Town and Country



Korea ssangyong chairman



HDMI cable assembly



# Products Application: Automotive wiring harness

## Wire Harness cable



Mazda Multi media Box



FORD Mondeo Lighting System



Porsche Lighting System

## HSD/Fakra cable





# Products Application: Automotive wiring harness & connector

## Other Cable series of vehicle-mounted



OBDII TO DSUB cable



Switch cable for fire fighting car



Power cable (ISO 6pin Conn.)

## Automotive connector: Type C series





# Products Application: Automotive connector



USB vertical type



USB180° SMT TYPE



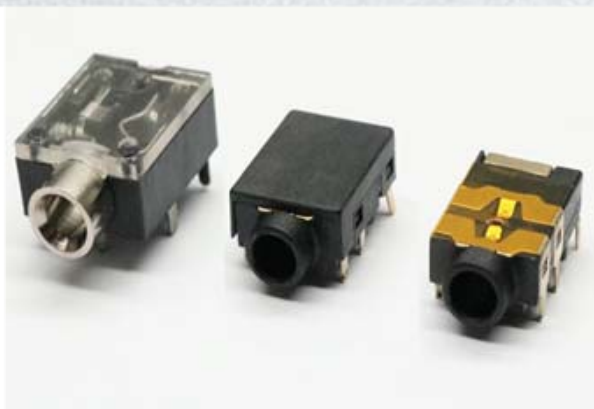
HDMI TYPE A



HDMI TYPE E



Uscar Mini USB Conn.



AUX Conn.



AUTO Conn. 12/4/2 Pin





# Quality System

RoHS&REACH  
ISO Certification



**ISO9001**  
Versions:2015



**IATF16949**  
Versions:2016



**ISO14001**  
Versions:2015



**ISO13485**  
Versions:2016



**AS 9100**  
Versions:2018



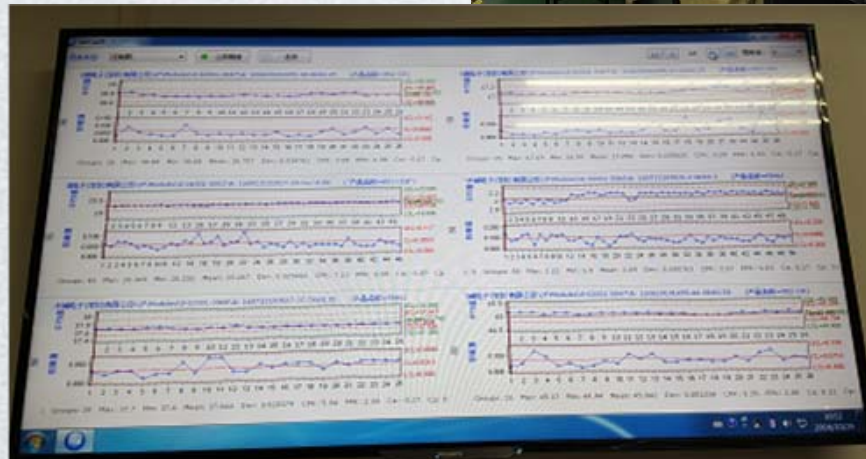
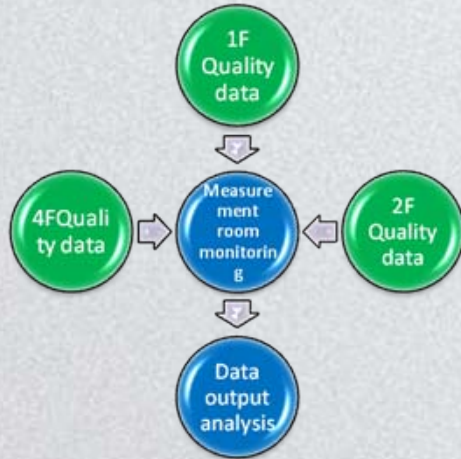
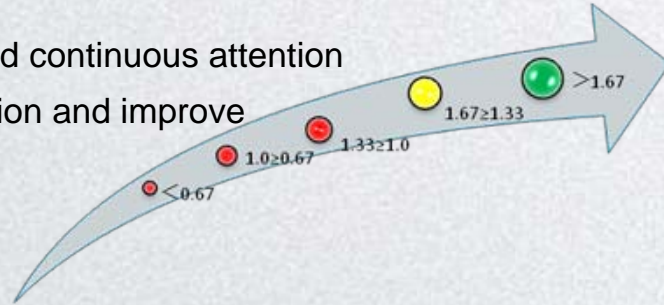


# Quality system - SPC system

Real-time SPC system: seamless connection with the measurement room automatic measurement system, automatic real-time SPC analysis of quality and process data for each period of time, early warning at the beginning of the trend change (automatically send mail step by step to notify the relevant personnel), can timely discover potential quality or process problems, so as to prevent and improve quality and process problems in advance.

## ▪ Capability Index of CPK

- Result  $\geq 1.67$  PASS
- Result  $< 1.67$  Early warning and continuous attention
- Result  $< 1.33$  Stop the production and improve







## Quality system - MES system

MES traceability system links parts, machines, personnel, test results and products effectively through scanning, and uploads servers to achieve one-to-one traceability effectively. MES system can export online reports, automatically feed back the real data of production and quality to the production Kanban and server, and gradually realize paperless operation.

Tracking of staff, machine and material

Product tracking

Quality management

Production Kanban

Equipment management

# Manufacturing System- Andon System

Module production line tie-in Andon System

- ※ E-SOP System, Roll playing, Real-time notification
- ※ Automatic recording, tracking and statistics the abnormalities of production line

## Andon System Production Line Layout



## Operations Interface



## Visual Integration Kanban





# Product Quality Control Process

## Injection Molding Process

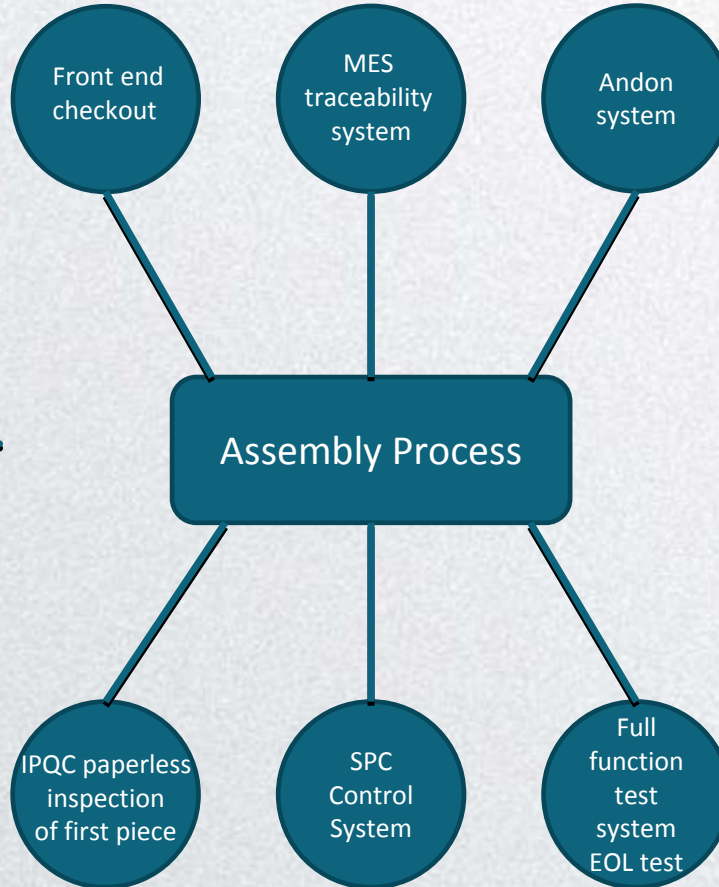
- Moisture content inspection
- Moulding parameter checkout
- Appearance inspection by microscope
- Size inspection in 2.5 dimension

## Stamping Process

- Hardness test
- Stamping parameter checkout
- Appearance inspection by microscope
- Size inspection in 2.5 dimension

## Feeding Process

- Plating thickness inspection
- RoHS test
- Appearance inspection by microscope
- Size inspection in 2.5 dimension
- Function test



- Safe Launch 100% inspection
- Vibration test
- Full inspection of appearance
- Full inspection of function

## FQC Process

- Package scanning
- ERP implement First-in, First out
- Management & tracking of delivery records



# Laboratory equipment



Automatic inserting and pulling force testing machine



Durability Force Tester



Alcohol rubber friction testing machine



Hardness testing machines



Bend and sway test machine



Grinding and polishing experimental machine



# Laboratory equipment



Contact impedance tester



Voltage insulation tester



Function Generator



**XRF**



colorimeter



oscilloscope



# Laboratory equipment



**Constant temperature and humidity testing chamber**



**Mechanical vibration testing machine**



**Vehicle interference simulator ISO7637 system**



**Thermal shock testing chamber**



**Mechanical shock testing machine**



**Electrostatic discharge generator**



# Experiment ability

中国认可  
能力验证  
PROFICIENT  
CNAS PT001

### 能力 证书编号

实验室名称：长琦雷  
实验室代码：65  
计划名称：NIL PT-4  
测试项目：HV0.2  
评价结果：满意  
详见能力验证计划结果通知

北京中实

中国认可  
能力验证  
PROFICIENT  
CNAS PT001

### 能力验证 证书编号：NIL

实验室名称：长琦电子（深）  
实验室代码：55  
计划名称：NIL PT-0740  
测试项目：质量损失  
评价结果：满意  
详见能力验证计划结果通知单

北京中实中国国

中国认可  
能力验证  
PROFICIENT  
CNAS PT001

### 能力验证 证书编号：NIL

实验室名称：长琦电子（深）  
实验室代码：31  
计划名称：NIL PT-1031 电子  
物质的筛查（XR）  
测试项目：Pb、Cd、Hg、C  
评价结果：满意  
详见能力验证计划结果通知单

北京中实中国国

中国认可  
能力验证  
PROFICIENT TESTING  
CNAS PT001E

### 能力验证计划结果通知单

计划编号及名称：CVC  
实验室名称：长琦电子  
实验室代码：CVC2016

测试项目	实验结果 (℃)	指定值 (℃)	标准化 IQR (℃)	实验室 Z 比分数
动作温度 (℃)	99.8	91.5℃	3.947	1.85

该实验室参加本次能力验证计划结果：满意。

注：1. 实验室能力评价原则：  
|Z| ≤ 2 为满意结果；  
2 < |Z| < 3 为有问题结果，有问题结果在表中用 \* 标示；  
|Z| ≥ 3 为不满意结果，不满意结果在表中用 \$ 标示。  
2. 本结果通知单应与能力验证计划结果报告结合使用。



# Mold processing equipment

**Grinding machine**



**milling machine**



**Wire Cutting machine**



**EDM**

**Laser engraving machine**







# Manufacturing equipment



Automatic welding robot



Automatic wire cutting machine



USB connector automatic assembly machine



High frequency soldering



EOL tester



2.5D automatic measurer



# Manufacturing shop





# Manufacturing shop

We advocate the concept of "zero defects" and "one time to do things right", in strict accordance with the ISO/IATF16949 quality control standard production.



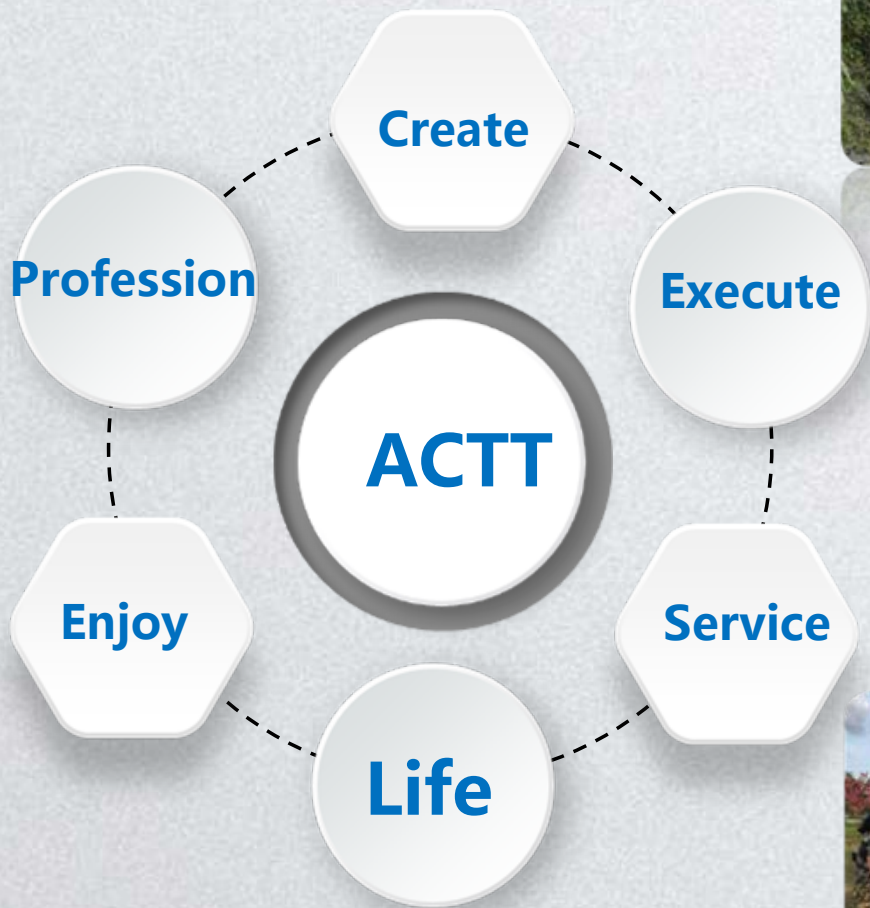


# High standard of warehouse management





# Corporate culture





# Win-win Cooperation

*THE END*